



## **Preliminary Scoping Statement**

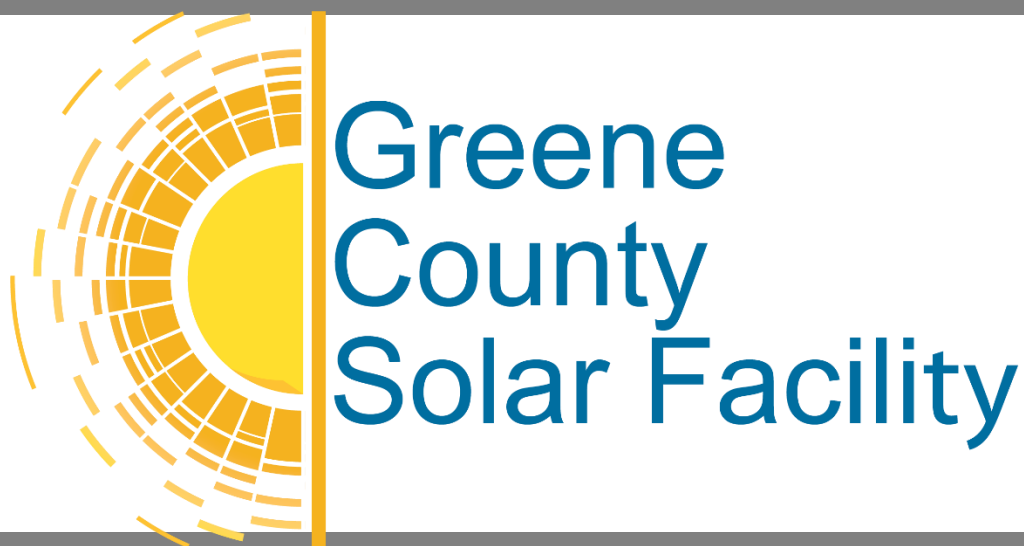
*for the*

## **Greene County Solar Facility**

*proposed in*

## **Greene County, New York**

**Case Number 17-F-0619**



May 2018



May 29, 2018

Honorable Kathleen H. Burgess  
Secretary  
New York State Board on  
Electric Generation Siting and the Environment  
Three Empire State Plaza  
Albany, New York 12233-1350

Re: Case 17-F-0619 – Application of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article 10 of the Public Service Law for Construction of a Solar Electric Generating Facility Located in the Town and Village of Coxsackie, Greene County, New York.

Dear Secretary Burgess:

Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC (collectively “Hecate Greene” or “Co-Applicants”) propose to construct a 50-megawatt photovoltaic solar farm in the Town and Village of Coxsackie, Greene County, New York (the “Facility”). In order to construct the Facility, Hecate Greene is seeking a certificate of environmental compatibility and public need (“Certificate”) from the New York State Board on Electric Generation Siting and the Environment (“Siting Board”) pursuant to Article 10 of the Public Service Law (“PSL”) and the Siting Board’s rules (16 NYCRR Part 1000).

Pursuant to PSL § 163 and 16 NYCRR § 1000.5, Hecate Greene hereby submits its Preliminary Scoping Statement (“PSS”). Enclosed are ten paper copies of the PSS. An electronic copy of the PSS will also be filed with the Secretary through the Department of Public Service’s online DMM system. In addition, Hecate Greene is simultaneously sending a check to the Department of Public Service for the pre-application intervenor funding as required by PSL § 163(4).

Copies of the PSS be served on the parties identified in 16 NYCRR § 1000.5(c). An Affidavit of Service in compliance with 16 NYCRR § 1000.5(f) is attached hereto as Attachment 1.

Pursuant to 16 NYCRR § 1000.5(d) and 1000.7(a) notice of the PSS was published in the Catskill Daily Mail on Saturday, May 19, 2018. The Daily Mail is the newspaper designated for official notices for the Town of Coxsackie and is also the newspaper with the largest circulation in Greene County. In addition, to provide for a wider circulation of the notice, the notice was also published in the Shop & Find on Saturday, May 26, 2018; the Times Union on Sunday, May 20, 2018; and the Hudson Valley 360 website on Sunday, May 20, 2018. Proofs of publication, in compliance with 16 NYCRR § 1000.5(f), together with copies of the notices that were published, will be provided under separate cover. Service of the notice of the PSS as required by 16 NYCRR § 1000.5(e) was also completed and an Affidavit of Service, therefore, is attached hereto as Attachment 2. Where requested, stakeholders were also notified via email; an Affidavit of Service for that service is attached hereto as Attachment 3.

Pursuant to 16 NYCRR § 1000.5(g), any person, agency, or municipality may submit comments on the PSS “[w]ithin 21 days after the filing of the” PSS, or by June 19, 2018, by filing a copy with the Secretary and serving the Co-Applicants at the following address:

Gabriel Wapner  
Hecate Energy, LLC  
621 W Randolph St.  
Chicago, IL 60661  
[contact@greencountysolar.info](mailto:contact@greencountysolar.info)

Hecate Greene looks forward to working with interested parties and stakeholders during the pre-application phase of this process. Please contact me if you have any questions regarding this filing.

Respectfully submitted,



Jacqueline Bruce, Environmental Planner  
Tetra Tech

Attachments:

- 1 – Affidavit of Service
- 2 – Affidavit of Mailing
- 3 – Affidavit of Emailing

CC: Lorna Gillings, Office of Consumer Services  
Gabriel Wapner, Hecate Energy LLC  
Sam Laniado, Read and Laniado, LLP  
Philip Mooney, Hecate Energy LLC

## **Attachment 1 – Affidavit of Service**



Case 17-F-0619

*Application of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, Hecate Energy Greene County 3 LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article 10 of the Public Service Law for Construction of a Solar Electric Generating Facility Located in the Town of Cossackie, Greene County.*

## AFFIDAVIT OF SERVICE

I, Kathleen Barnes of Tetra Tech, Inc., in Boston, Massachusetts, caused the document entitled 'Preliminary Scoping Statement for the Greene County Solar Facility proposed in Greene County, New York', to be sent via FedEx to the required parties, as identified in 16 New York Codes, Rules and Regulations § 1000.5(c). A list of the recipients to whom this document was sent, as well as proof of shipment, is attached hereto.

Kathleen Barnes

Kathleen Barnes

Sworn to me before this 24<sup>th</sup> day of May 2018

Sharon A. Fama

Notary Public



**SHARON A. FAMA**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 22, 2024



### Recipients of the Preliminary Scoping Statement per 16 NYCRR § 1000.5(c)

Required Party	Contact	Address	Hard Copies	Electronic Copies
New York State Board on Electric Generation Siting and the Environment	Hon. Kathleen H. Burgess, Secretary to the Commission	Empire State Plaza, Agency Building 3, Albany, New York 12223-1350	10	1
New York State Department of Environmental Conservation (NYSDEC), Central Office, Division of Environmental Permits, Major Project Management	Daniel Whitehead, Director	625 Broadway, Albany, New York 12233-1750	4	
NYSDEC, Region 4 Office	Keith Goertz, Regional Director	1130 North Westcott Road, Schenectady, New York 12306-2014	3	
New York State Department of Health	Howard A. Zucker, M.D., J.D., Commissioner	Corning Tower, Empire State Plaza, Albany, New York 12237	2	
New York State Energy Research and Development Authority	Richard Kaufmann, Chair	17 Columbia Circle, Albany, New York 12203	2	
New York State Department of Economic Development	Howard Zemsky, Commissioner	633 Third Avenue, Floor 37, New York, New York 10017	2	
Town of Coeymans	Phillip A. Crandall, Supervisor	18 Russell Ave, Ravena, New York 12143	1	
New York State Department of Agriculture and Markets	Richard Ball, Commissioner	10B Airline Drive, Albany, New York 12235	1	
New York State Department of State	Rossana Rosado, Secretary of State	One Commerce Plaza, 99 Washington Avenue Albany, New York 12231-0001	1	
Attorney General	Eric T. Schneiderman, Attorney General	The Capitol, Albany, New York 12224-0341	1	
New York State Department of Transportation, Region 1	Sam Zhou, P.E., Regional Director	Executive Office, 50 Wolf Road, Suite 1s50, Albany, New York 12232	1	
New York State Office of Parks, Recreation, and Historic Preservation	Regional Director	19 Roosevelt Drive, Saratoga Springs, New York 12866	1	
Heermance Memorial Library	Linda Deubert, Director	1 Ely Street, Coxsackie, NY 12051	1	
D.R. Evarts Library	Timothy Furgal, Director	80 2nd Street, Athens, NY 12015	1	

Required Party	Contact	Address	Hard Copies	Electronic Copies
Village of Cossackie Village Hall	Nikki Bereznak, Village Clerk	119 Mansion Street, Cossackie, NY 12051	1	
Town of Cossackie Town Hall	Bambi Hotaling, Town Clerk	16 Reed Street, Cossackie, NY 12051	1	
New York State Public Service Commission	James Denn, Public Information Coordinator	Empire State Plaza, Agency Building 3, Albany, NY 12223-1350	0	1
Read and Laniado, LLP	Sam Laniado	25 Eagle Street, Albany, NY 12207	1	
Tetra Tech, Inc.	Fred Sellars	2 Lan Drive, Suite 210, Westford, MA 01886	1	
Tetra Tech, Inc.	Jackie Bruce	1200 Scottsville Road, Suite 320, Rochester, NY 14624	1	1
Tetra Tech, Inc.	Bill Boer	6 Century Drive, Suite 300, Parsippany, NJ 07054	9	2

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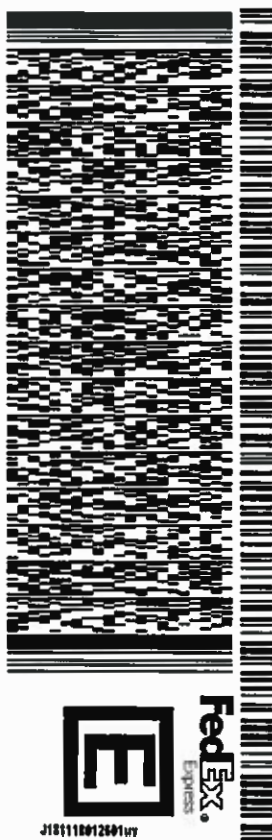
BILL SENDER

TO HON. KATHLEEN H. BURGESS  
 NY STATE BOARD ELEC GEN SITING & EN  
 EMPIRE STATE PLAZA, AGENCY BUILDING

ALBANY NY 12223

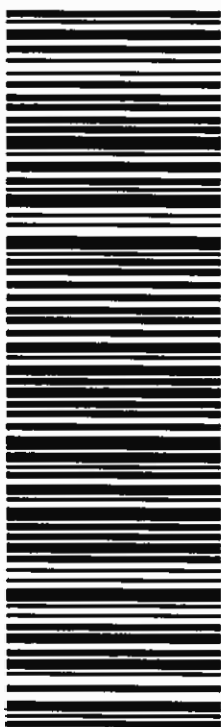
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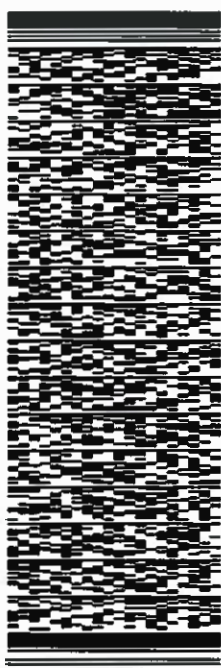
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 NY STATE DEPT OF ENVIR CONSERVATION  
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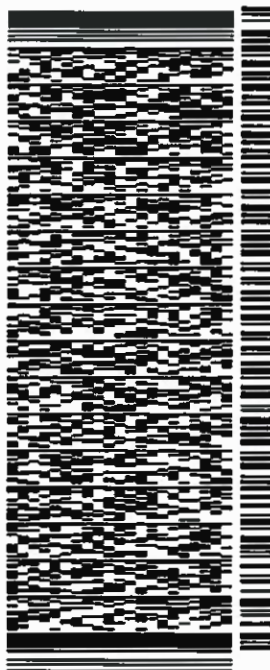
TO KEITH GOERTZ, REGIONAL DIRECTOR

NYSDEC, REGION 4 OFFICE  
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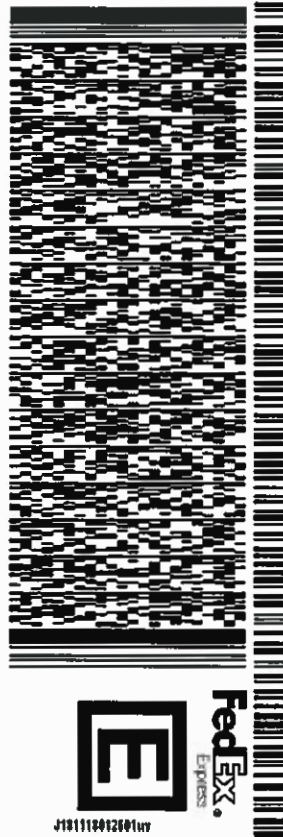
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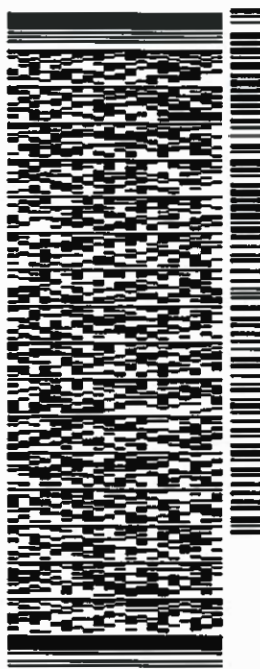
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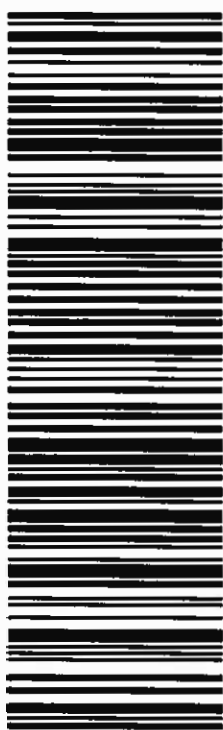
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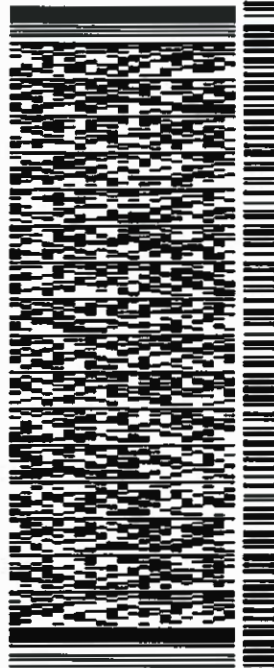
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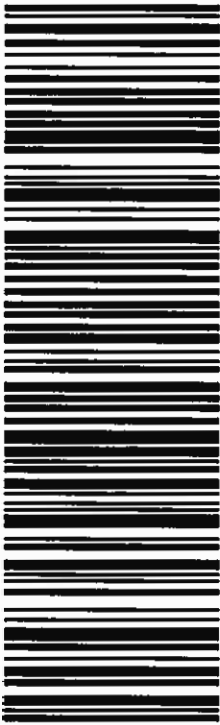


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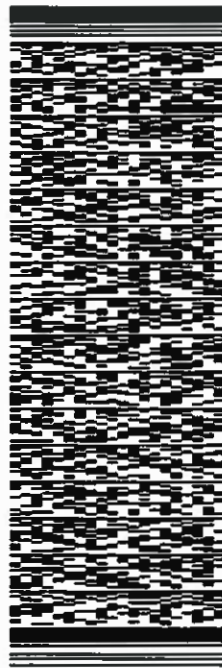
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 NY STATE DEPARTMENT OF AGRICULTURE  
 10B AIRLINE DRIVE

NEW YORK NY 12235

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 INV: 194-5871 06 001  
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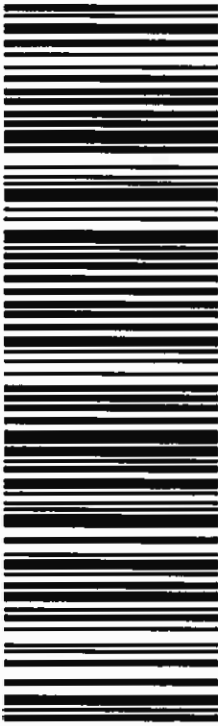


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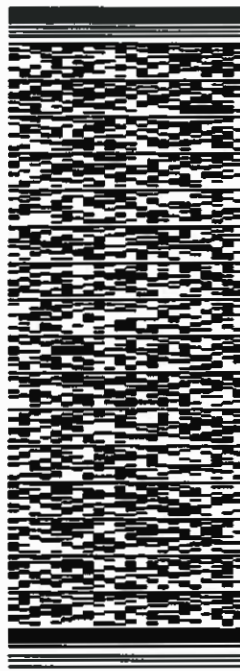
BILL SENDER

TO ROSSANA ROSADO, SECRETARY OF STATE  
 NEW YORK STATE DEPARTMENT OF STATE  
 ONE COMMERCE PLAZA  
 99 WASHINGTON AVENUE  
 ALBANY NY 12231

(518) 473-2293 REF: 19458710601  
 INV: 19458710601

DEPT J BRUCE

552J2782B/DCA5



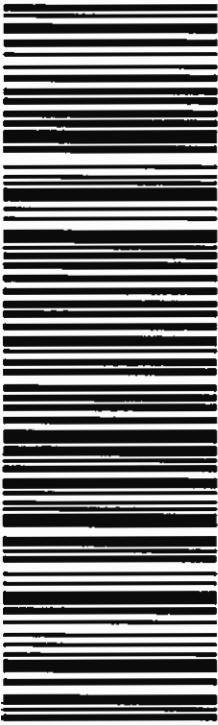
J18111801200100

TRK# 7722 9254 8210  
 0201

TUE - 29 MAY 10:30A  
 PRIORITY OVERNIGHT

K7 ALBA

12231  
 NY-US ALB



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ORIGIN ID: 1WMA (617) 443-7500  
MAIL ROOM  
TELETECH INC.  
160 FEDERAL STREET  
3RD FLOOR  
BOSTON, MA 02110  
UNITED STATES US

SHIP DATE: 25MAY18  
ACTWGT: 3.00 LB  
CAD: 111774809/NET3980

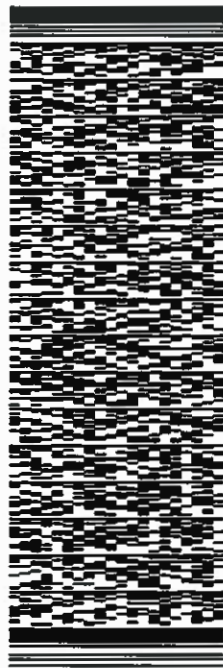
BILL SENDER

TO ERIC T. SCHNEIDERMAN, ATTORNEY GENE  
OFFICE OF THE ATTORNEY GENERAL  
THE CAPITOL

ALBANY NY 12224

(800) 771-7755 REF: 194-597106 01  
INV: 194-597106 01  
PO DEPT J BRUCE

552J2762B/DCA5

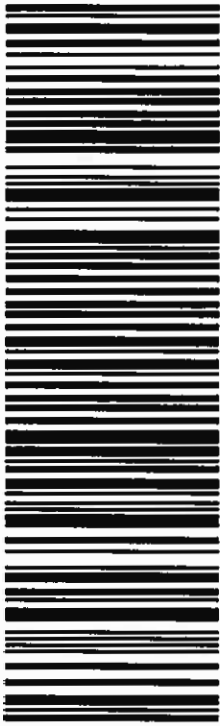


J191110912691111

TRK# 7722 9261 2862  
0201

TUE - 29 MAY 10:30A  
PRIORITY OVERNIGHT

K7 ALBA 12224  
NY-US ALB



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ORIGIN ID: 1WMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980

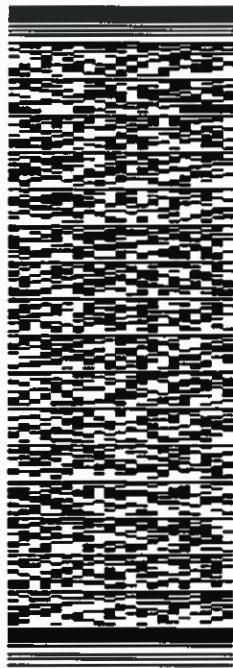
BILL SENDER

TO SAM ZHOU, P.E., REGIONAL DIRECTOR  
 NY STATE DEPT OF TRANSPORTATION  
 50 WOLF ROAD  
 SUITE 1S50

ALBANY NY 12232

(518) 457-3522 REF: 194-5871 06 01  
 INV: 194-5871 06 01

DEPT. J BRUCE

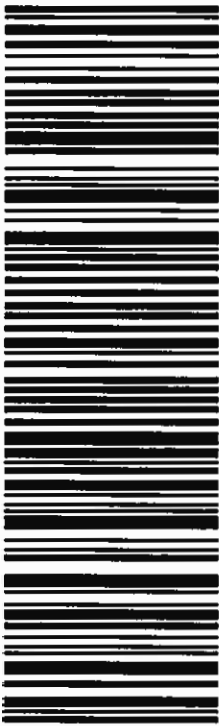


J181110012601NY

TRK# 7722 9265 9827  
 0201

TUE - 29 MAY 10:30A  
 PRIORITY OVERNIGHT

K7 DSV 12232  
 NY-US ALB



552J2782B/DCA5

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ORIGIN ID: LMMMA (617) 443-7500  
 MAIL ROOM  
 TELTRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980

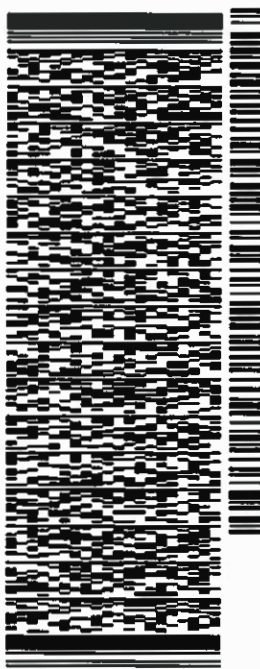
BILL SENDER

TO REGIONAL DIRECTOR  
 NY STATE OFFICE OF PARKS, RECREATIO  
 19 ROOSEVELT DRIVE

SARATOGA SPRINGS NY 12866

(518) 584-2535 REF: 194-5871 06-01  
 INV 194-5871 06-01

DEPT J BRUCE



552J2/782B/DCA5

TRK# 7722 9270 6252  
 0201

TUE - 29 MAY 10:30A  
 PRIORITY OVERNIGHT

K7 GFLA 12866  
 NY-US ALB



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ORIGIN D1LWMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH INC  
 100 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/MNET3980

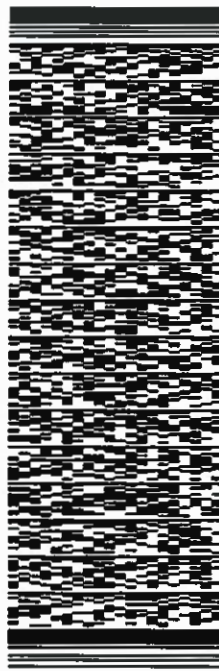
BILL SENDER

TO LINDA DEUBERT, DIRECTOR  
 HEERMANCE MEMORIAL LIBRARY  
 1 ELY STREET

COXSACKIE NY 12051

(518) 731-8084 REF: 194-5871.06.01  
 INV 194-5871.06.01

DEPT J BRUCE



5181110012001100

552J2782B/DCA5

TRK# 7722 9275 2788  
 0201

TUE - 29 MAY 12:00P  
 PRIORITY OVERNIGHT

K7 ALBA

12051  
 NY-US ALB



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ORIGIN ID: LMMMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CWD: 111774809/NET3980

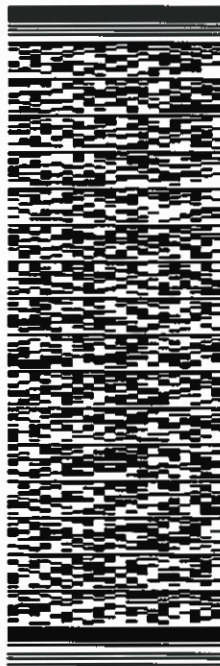
BILL SENDER

TO TIMOTHY FURGAL, DIRECTOR  
 D.R. EVARTS LIBRARY  
 80 2ND STREET

ATHENS NY 12015

(518) 945-1417 REF: 194-5871 06 01  
 INV: 194-5871 06 01

DEPT J BRUCE



552J2782B/DCA5

TRK# 7722 9278 9465  
 0201

TUE - 29 MAY 12:00P  
 PRIORITY OVERNIGHT

K7 ALBA 12015  
 NY-US ALB



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ORIGIN DTLWMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWTG: 3.00 LB  
 CAD: 111774809/NET3980

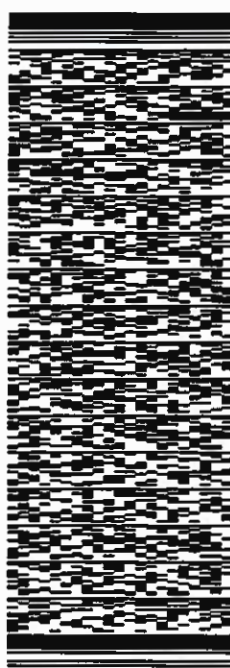
BILL SENDER

TO NIKKI BEREZNAK, VILLAGE CLERK  
 VILLAGE OF COXSACKIE VILLAGE HALL  
 119 MANSION STREET

COXSACKIE NY 12051

(518) 731-2781 REF: 194-5871 06 01  
 INV 194-5871 06 01  
 PO DEPT J BRUCE

552,02762B/DCA5



J181110812501uy

TRK# 7722 9283 6074  
 0201

TUE - 29 MAY 12:00P  
 PRIORITY OVERNIGHT

K7 ALBA

12051  
 NY-US ALB



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ORIGIN ID: 1MMMA (617) 443-7500  
 MALE ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980

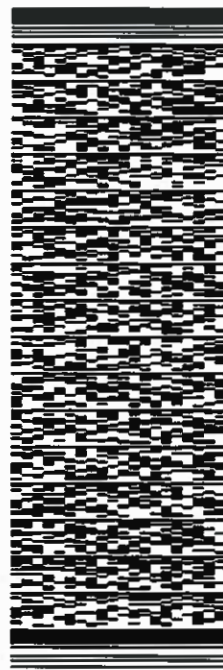
BILL SENDER

TO **BAMBI HOTALING, TOWN CLERK**  
**TOWN OF COXSACKIE TOWN HALL**  
**16 REED STREET**

**COXSACKIE NY 12051**

(518) 731-2127 REF: 194-5871 06.01  
 INV: 194-5871 06.01  
 PO DEPT J BRUCE

552J2/782B/DCA5

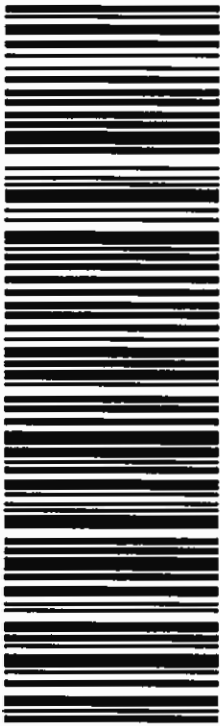


TRK# 7722 9289 1847  
 0201

TUE - 29 MAY 12:00P  
 PRIORITY OVERNIGHT

**K7 ALBA**

12051  
 NY-US ALB



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ORIGIN ID: LMMMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 1.00 LB  
 CAD: 111774809/NET3980

BILL SENDER

TO JAMES DENN, PUBLIC INFORMATION COOR

NY STATE PUBLIC SERVICE COMMISSION

EMPIRE STATE PLAZA

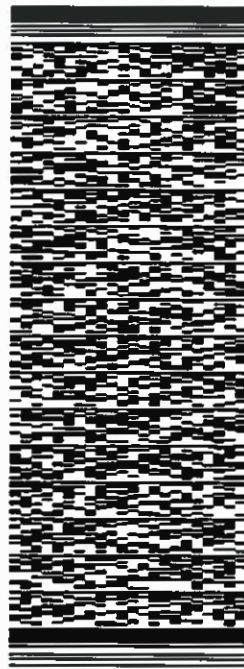
AGENCY BUILDING 3

ALBANY NY 12223

(518) 474-7080  
 INV 1945871 06 01  
 PO

REF 1945871 06 01

DEPT J BRUCE



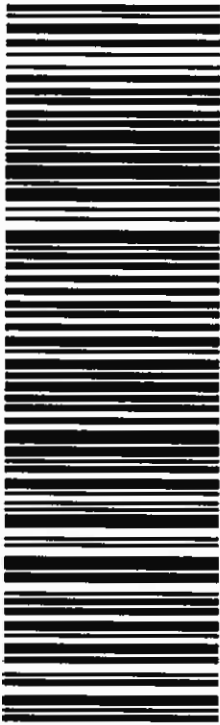
552J2782B/DCA5

TRK# 7722 9293 5622  
 0201

TUE - 29 MAY 10:30A  
 PRIORITY OVERNIGHT

SB ALBA

12223  
 NY-US ALB



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ORIGIN D: LMMMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25 MAY 18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980

BILL SENDER

TO SAM LANIADO

READ AND LANIADO, LLP  
 25 EAGLE STREET

ALBANY NY 12207

(518) 465-9313

REF: 194-5871 06-01

INV: 194-5871 06-01

DEPT: J BRUCE



101111001200144

TRK# 7722 9299 5786  
 0201

TUE - 29 MAY 10:30A  
 PRIORITY OVERNIGHT

K7 ALBA

12207  
 NY-US ALB



552J2782B/DCA5

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ORIGIN ID: LWMMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH, INC.  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980  
 BILL SENDER

TO FRED SELLARS

TETRA TECH

2 LAN DRIVE

SUITE 210

WESTFORD MA 01886

(978) 490-3157

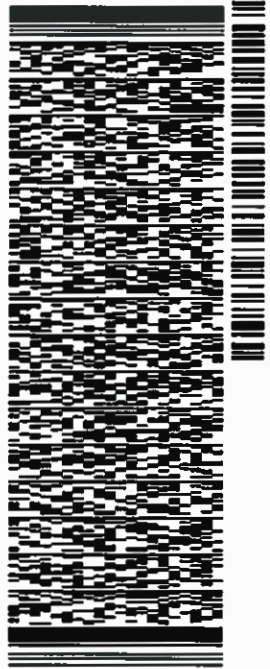
REF: 194-5871 06 01

INV: 194-5871 06 01

PO

DEPT J BRUCE

552J2782B/DCA5



J121118012001uy

TUE - 29 MAY 10:30A

PRIORITY OVERNIGHT

TRK# 7722 9310 9218  
 0201

01 AYE A

01886  
 MA-US BOS



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ORIGIN D: L WMA (617) 443-7500  
 MAIL ROOM  
 TETRA TECH INC  
 160 FEDERAL STREET  
 3RD FLOOR  
 BOSTON, MA 02110  
 UNITED STATES US

SHIP DATE: 25MAY18  
 ACTWGT: 3.00 LB  
 CAD: 111774809/NET3980

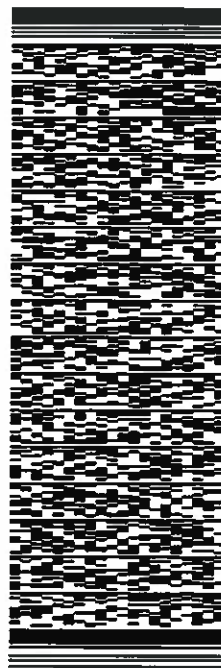
BILL SENDER

TO JACKIE BRUCE

TETRA TECH  
 1200 SCOTTSVILLE ROAD  
 BUILDING C SUITE 181  
 ROCHESTER NY 14624

(860) 748-8745 REF: 19458710601  
 INV: 19458710601  
 PO DEPT J BRUCE

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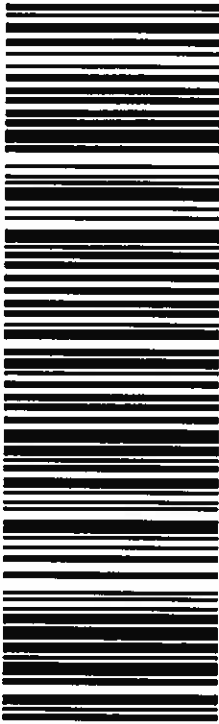
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 CAD: 111774809/NET3980

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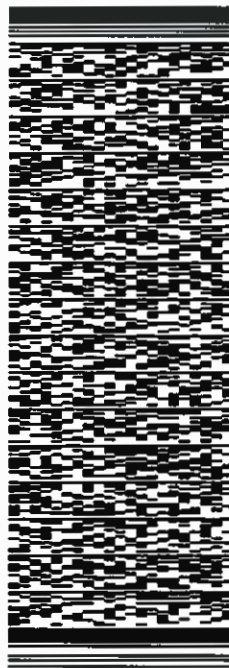
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**6 CENTURY DRIVE**  
**SUITE 300**

**PARSIPPANY NJ 07054**

(973) 630-8606 REF 194-5871 06.01  
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**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.




## **Attachment 2 – Affidavit of Mailing**


*Application of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene 3 LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article 10 of the Public Service Law for Construction of a Solar Generating Facility Located in the Town and Village of Coxsackie, Greene County.*

## AFFIDAVIT OF MAILING

I, Jenny Potrikus of Tetra Tech, in Parsippany, New Jersey, caused the letter entitled 'Notice of Submission of Preliminary Scoping Statement', a copy of said letter which is attached, to be mailed, via First Class U.S. mail, to 817 addresses on the captioned project Master Stakeholder List. A copy of said Master Stakeholder List to which this letter was sent is attached hereto. A total of 831 contacts are provided on the Master Stakeholder List, however, 14 of the 831 contacts provided no or incomplete addresses. Therefore, 817 of the 831 contacts listed were mailed the letter.

  
\_\_\_\_\_  
Jenny Potrikus

Sworn to me before this 23 day of May 2018

  
\_\_\_\_\_  
Notary Public **Annie Chisholm**  
**Notary Public Of New Jersey**  
**Commission Expires: 7/7/2021**  
**ID# 2346323**



## **NOTICE OF SUBMISSION OF PRELIMINARY SCOPING STATEMENT**

Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC (“Hecate Greene” or “Co-Applicants”) are seeking authority from the New York State Board on Electric Generation Siting and the Environment (the “Siting Board”) to construct a 50-megawatt (“MW”) solar photovoltaic electric generating facility (the “Project”) in the Town and Village of Coxsackie, Greene County, New York, pursuant to Article 10 of the New York State Public Service Law. Hecate Greene hereby provides notice that it will file a Preliminary Scoping Statement (“PSS”) with the Siting Board on or about May 29, 2018. The PSS summarizes the proposed scope of studies that Hecate Greene will undertake, the results of which will form the basis of its Application to the Siting Board. Hecate Greene also seeks input from the public, interested agencies, and local municipalities on the scope and methodology of proposed studies to be conducted.

The Project components will include solar photovoltaic panel arrays connected by underground, and possibly overhead, collection lines that will generate electricity to be delivered into Central Hudson’s transmission system via interconnections with the existing Coxsackie-North Catskill 69 kilovolt transmission line. The Project is proposed to be constructed on leased and/or purchased rural private land that is agricultural in nature.

The Project will safely generate enough clean, renewable electricity to power approximately 13,000 households. The Project will also avoid emissions and other impacts associated with traditional fossil-fueled generating facilities, and further the State Energy Plan’s goal of generating 50% of all electricity consumed in the State with renewable resources and reducing greenhouse gas emissions by 40% by the year 2030.

Based upon reasonably available information, the PSS will describe, amongst other topics, the environmental setting of the Project area, the potential environmental and health impacts associated with construction and operation of the Project, proposed benefits of the Project, proposed studies, security, decommissioning, and proposed measures to mitigate or minimize any potentially significant environmental impacts.

Hecate Greene anticipates that the Project will not have negative impacts on health, air, or water resources. Potential visual, wildlife, or agricultural impacts will be mitigated to the maximum extent practicable.

With the PSS, Hecate Greene will also submit \$17,500 in intervenor funding. Interested parties may apply for intervenor funding to be used to pay for expenses such as administrative, attorney, and/or consultant fees. A guide to applying for intervenor funding can be found on the New York State Department of Public Service’s (“DPS”) website by using the following direct link: [goo.gl/avcprS](http://goo.gl/avcprS).

Within 21 days after the PSS is filed, any person, agency, or municipality may submit comments on the PSS by serving such comments on the Co-Applicants, at the address provided below, and filing a copy with the Secretary. Comments must reference Case 17-F-0619 and may be submitted to Hon. Kathleen H. Burgess, Secretary to the Siting Board, New York State Public Service Commission, Agency Building 3, Albany, NY 12223-1350 or electronically to [secretary@dps.ny.gov](mailto:secretary@dps.ny.gov). Any interested person may also file a request with the Secretary to receive copies of all notices concerning the Project, including notices regarding any proposed pre-application stipulations. Documents filed in this proceeding may also be viewed at the DPS website located at [www.dps.ny.gov](http://www.dps.ny.gov) by clicking "Search" on the homepage and then entering Case 17-F-0619 in "Search by Case Number."

Within 21 days after the closing of this comment period, the Co-Applicants will prepare a summary of the material comments and their replies thereto, and file and serve the summary in the same manner as the Co-Applicants file and serve the PSS.

Not less than 22 days after the PSS is filed, an Administrative Law Judge (“ALJ”) will hold a conference to, among other things, initiate the stipulation process in which Hecate Greene and other parties attempt to negotiate and agree on the studies and other issues to be addressed in the Article 10 Application. The ALJ will also issue a notice of availability of pre-application intervenor funds, which will provide a schedule and instructions on how interested parties may apply for such funds. Requests for intervenor funds are due within 30 days of issuance of the notice. A pre-application meeting will also be convened to consider funding requests no less than 45 but no more than 60 days after the filing of the PSS.

Hecate Greene will use the results of the studies it conducts to prepare the Application, which will be filed not less than 90 days after the PSS is filed. The Application will include, amongst other topics, a description of the Project, an evaluation of the environmental and health impacts and avoidance/mitigation measures, a summary of public involvement activities, a statement of why any local laws or ordinances should not be applied, electrical interconnection and system reliability studies, security and emergency plans, a statement demonstrating compliance with the most recent State Energy Plan, and other relevant information.

The Siting Board will then determine whether the Application is compliant with filing requirements. Once it is deemed compliant, the ALJ will schedule a public hearing and issue a notice that additional intervenor funds, in the amount of \$50,000, will be available for parties participating in the Application phase. The ALJ will also schedule a pre-hearing conference to identify intervenors, award intervenor funds, identify issues for the hearing, and establish a case schedule. After the hearings, intervenors may submit briefs to the ALJ who will then issue a recommended decision, upon which the Siting Board will render its decision on whether to certify the Project. State law requires that the Siting Board must render a decision on the Application within 12 months of its determination that the Application is compliant with filing requirements.

Additional information on how to participate in Siting Board matters may be obtained by contacting Hecate Greene’s project representative or the Siting Board Public Information Coordinator:

Hecate Greene Representative

Gabriel Wapner  
Hecate Energy, LLC  
621 W Randolph St.  
Chicago, IL 60661  
833-529-6597  
contact@greenecountysolar.info

Siting Board Public Information Coordinator

James Denn  
NYS Department of Public Service  
3 Empire State Plaza  
Albany, NY 12223  
518-474-7080  
james.denn@dps.ny.gov

To find more information, please go to the Siting Board’s website ([www.dps.ny.gov/SitingBoard](http://www.dps.ny.gov/SitingBoard)) or the Project website (<https://www.greenecountysolar.info/>), or call the Project’s toll-free number: 833-529-6597.

Hard copies of the PSS will also be available at the following local document repositories:

- Hermance Memorial Library, 1 Ely St., Coxsackie, NY 12051
- D.R. Evarts Library, 80 2nd St., Athens, NY 12015
- Village of Coxsackie Village Hall, 119 Mansion St., Coxsackie, NY 12051
- Town of Coxsackie Town Hall, 16 Reed St., Coxsackie, New York 12051

# Master List of Stakeholders

## STATE AND FEDERAL AGENCIES

### New York State Department of Agriculture and Markets

Richard Ball, Commissioner  
10B Airline Drive, Albany, NY 12235  
(585) 457-8876  
[info@agriculture.ny.gov](mailto:info@agriculture.ny.gov)

### New York State Department of Agriculture and Markets

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### NYSDEC

Basil Seggos, Commissioner  
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### NYSDEC, Central Office

Daniel Whitehead, Director  
Division of Environmental Permits, Major Project Management  
625 Broadway, Albany, NY 12233-1750  
(518) 402-9167  
[deppermitting@dec.ny.gov](mailto:deppermitting@dec.ny.gov)

### NYSDEC, Region 4

Keith Goertz, Regional Director  
1130 North Westcott Road, Schenectady, NY 12306-2014  
(518) 357-2068  
[R4Info@dec.ny.gov](mailto:R4Info@dec.ny.gov)

### NYS Energy Research and Development Authority

Alicia Barton, President  
17 Columbia Circle, Albany, NY 12203  
(518) 862-1090  
[info@nyserda.ny.gov](mailto:info@nyserda.ny.gov)

### NYS Energy Research and Development Authority

Richard Kaufmann, Chair  
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(518) 862-1090  
[info@nyserda.ny.gov](mailto:info@nyserda.ny.gov)

### NYS Office of General Services

RoAnn Destito, Commissioner  
41<sup>st</sup> Floor, Corning Tower, Empire State Plaza, Albany, NY 12242  
(518) 474-3899  
[RoAnn.Destito@ogs.ny.gov](mailto:RoAnn.Destito@ogs.ny.gov)

### Empire State Development

Howard Zemsky, Commissioner  
633 Third Avenue, Floor 37, New York, NY 10017  
*Telephone number not available*  
[nys-nyc@esd.ny.gov](mailto:nys-nyc@esd.ny.gov)

### NYS Division of Homeland Security and Emergency Services

Jerome Hauer, Commissioner  
1220 Washington Ave., State Office Campus, Building 7A, Suite 710, Albany, NY 12242  
(518) 242-5000  
[website@dhses.ny.gov](mailto:website@dhses.ny.gov)

### New York State Office of Parks, Recreation, and Historic Preservation

Regional Director  
19 Roosevelt Drive, Saratoga Springs, NY 12866  
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*Email not available*

### NYS Department of Public Service

James Denn, Public Information Officer  
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(518) 474-7080  
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### NYS Department of Public Service

Lorna Gillings, Outreach Contact  
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### NYS Department of Public Service

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### NYS Department of Public Service

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**NYS Department of Public Service – Office of Electric, Gas and Water**

Andrew Davis  
3 Empire State Plaza, Agency Building 3, Albany, NY 12223  
(518) 486-2885  
[Andrew.davis@dps.ny.gov](mailto:Andrew.davis@dps.ny.gov)

**NYS Department of State Office of Planning – Coastal Consistency Bureau**

One Commerce Plaza, 99 Washington Ave  
Albany, NY 12231-0001  
(518) 474-6000  
[opd@dos.ny.gov](mailto:opd@dos.ny.gov)

**NYS Department of Transportation, Region 1**

Sam Zhou, P.E., Regional Director  
Executive Office  
50 Wolf Road, Suite 1s50, Albany, NY 12232  
(518) 457-3522  
*Email not available*

**NYS Thruway Authority**

Bill Finch, Executive Director  
Administrative Headquarters  
200 Southern Blvd., P.O. Box 189, Albany, NY 12201  
(518) 436-2700  
*Email not available*

**New York Independent System Operator**

Michael Bemis, Board Chair  
10 Krey Boulevard, Rensselaer, NY 12144  
(518) 356-6060  
[stakeholderservices@nyiso.com](mailto:stakeholderservices@nyiso.com)

**Empire State Development Corporation**

Kenneth Tompkins, Mohawk Valley  
Regional Director  
207 Genesee Street Utica, NY 13501  
(315) 793-2366  
[nys-mohawkval@esd.ny.gov](mailto:nys-mohawkval@esd.ny.gov)

**Stockbridge-Munsee Community Band of Mohican Nation**

Shannon Holsey, Tribal President  
N8476 MoHeConNuck Road, Bowler, WI 54416  
(715) 793-4387  
[Shannon.holsey@mohican-nsn.gov](mailto:Shannon.holsey@mohican-nsn.gov)

**Saint Regis Mohawk Tribe**

412 State Route 37  
Akwasasne, NY 13655  
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[communications@srmt-nsn.gov](mailto:communications@srmt-nsn.gov)

**New York State Hudson River Valley Greenway Greenway Conservancy for the Hudson River Valley**

Kevin M. Burke, Acting Chair  
625 Broadway, 4<sup>th</sup> Floor, Albany, NY 12207  
(518) 473-3835  
[hrv@hudsongreenway.ny.gov](mailto:hrv@hudsongreenway.ny.gov)

**US Senate**

Kirsten E. Gillibrand, US Senator  
Leo W. O'Brien Federal Office Building, 11A Clinton Avenue, Room 821, Albany, NY 12207  
(518) 431-0120  
[invite@gillibrand.senate.gov](mailto:invite@gillibrand.senate.gov)

**US Senate**

Charles E. Schumer, US Senator  
Leo O'Brien Building, Room 420, Albany, NY 12207  
(518) 431-4070  
*Email not available*

**US House of Representatives**

John J. Faso, Representative, 19<sup>th</sup> Congressional District  
1616 Longworth HOB, Washington, DC 20515  
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*Email not available*

**NYS Department of State**

Rossana Rosado, Secretary of State  
One Commerce Plaza  
99 Washington Avenue Albany, NY 12231-0001  
(518) 473-2293  
[info@dos.ny.gov](mailto:info@dos.ny.gov)

**NY State Senate**

George A. Amedore, Jr., NY State Senator, 46<sup>th</sup> District  
Albany Office  
Legislative Office Building, Room 802, Albany, NY 12247  
(518) 455-2350  
[amedore@nysenate.gov](mailto:amedore@nysenate.gov)

**New York State Assembly**

Assembly Member, 102<sup>nd</sup> District  
Albany Office  
LOB 402, Albany, NY 12248  
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**NYSDEC, Division of Environmental Permits**

Kristy E. Primeau, Environmental Analyst  
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**Greene County Solar Facility**

Master List of Stakeholders

**NYSDEC**

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**New York State Department of Health**

Richard Thomas, Assistant Counsel  
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**New York State Department of Agriculture and Markets**

Tara Wells, Senior Attorney  
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**New York State Department of Agriculture and Markets**

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**New York State Department of Environmental Conservation**

Kara E. Paulsen, Esq.  
625 Broadway – 14<sup>th</sup> Floor  
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[Kara.paulsen@dec.ny.gov](mailto:Kara.paulsen@dec.ny.gov)

**New York State Assembly**

Chris Tague, Assembly Member, 102<sup>nd</sup> District  
Albany Office – LOB 402, Albany, NY 12248  
(518) 455-5363  
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---

**RELEVANT LOCAL AGENCIES, HOST MUNICIPALITIES AND SCHOOL DISTRICTS, ADDITIONAL STAKEHOLDERS, AND  
PUBLIC INTEREST GROUPS****Greene County Industrial Development Agency**

René VanShaack, Executive Director  
270 Mansion Street, Coxsackie, NY 12051  
(518) 731-5500  
*Email not available*

**Greene County**

Shaun S. Groden, Administrator  
411 Main Street, Catskill, NY 12414  
(518) 719-3270  
*Email not available*

**Greene County**

Marilyn Farrell, County Clerk  
411 Main Street, Catskill, NY 12414  
(518) 719-3255  
[mfarrell@discovergreene.com](mailto:mfarrell@discovergreene.com)

**Greene County Economic Development, Tourism &  
Planning Department**

411 Main Street, Catskill, NY 12414  
(518) 719-3290  
[whart@discovergreene.com](mailto:whart@discovergreene.com)

**Greene County Emergency Services**

John Farrell, Director  
25 Volunteer Drive, Cairo, NY 12413  
(518) 622-3643  
[jfarrell@discovergreene.com](mailto:jfarrell@discovergreene.com)

**Greene County Soil and Water Conservation District**

Jeff Flack, Executive Director  
907 Greene County Office Bldg, Cairo, NY 12413  
(518) 622-3620  
[jeff@gcswcd.com](mailto:jeff@gcswcd.com)

**Town of Coxsackie, Supervisor**

Richard K. Hanse, Supervisor  
Town Hall – 16 Reed Street, Coxsackie, NY  
(518) 731-2727  
[info@coxsackie.org](mailto:info@coxsackie.org)

**Town of Coxsackie, Town Clerk**

Bambi Hotaling, Town Clerk  
Town Hall – 16 Reed Street, Coxsackie, NY  
(518) 731-2727  
[clerk@coxsackie.org](mailto:clerk@coxsackie.org)

**Town of Coxsackie Planning Board**

Bruce Haeussler, Chairman  
Town Hall – 16 Reed Street, Coxsackie, NY  
(518) 731-2727  
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**Village of Coxsackie**

Mark Evans, Mayor  
119 Mansion Street, Coxsackie, NY 12051  
(518) 731-2718  
[mayor@villageofcoxsackie.com](mailto:mayor@villageofcoxsackie.com)

**Village of Coxsackie, Village Clerk**

Nikki Bereznak, Village Clerk  
119 Mansion Street, Coxsackie, NY 12051  
(518) 731-2718  
[NBereznak@villageofcoxsackie.com](mailto:NBereznak@villageofcoxsackie.com)

**Village of Coxsackie Planning Board**

Patricia Maxwell, Chairperson  
119 Mansion Street, Coxsackie, NY 12051  
(518) 731-1302  
*Email not available*

**Village of Coxsackie Zoning Board**

Peter Willis, Chairman  
119 Mansion Street, Coxsackie, NY 12051  
(518) 731-2664  
*Email not available*

**Village of Coxsackie Historic Preservation Committee**

Patricia Maxwell, Temporary Chairperson/Member  
119 Mansion Street, Coxsackie, NY 12051  
(518) 731-1302  
*Email not available*

**Whiteman Osterman & Hanna LLP**

Representing the Town and Village of Coxsackie  
Alexandra Dobles, Associate  
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[adobles@woh.com](mailto:adobles@woh.com)

**Coxsackie-Athens Central School District**

Randall W. Squier, Superintendent of Schools  
24 Sunset Blvd, Coxsackie, NY 12051  
(518) 731-1710  
[squierr@cacsd.org](mailto:squierr@cacsd.org)



**Columbia County Board of Supervisors**

Matt B. Murell, Chairman  
401 State Street, Hudson, NY 12534  
(518) 828-1527  
[matt.murell@columbiacountyny.com](mailto:matt.murell@columbiacountyny.com)

**Columbia County**

Holly Tanner, County Clerk  
560 Warren Street, Hudson, NY 12534  
(518) 828-3339  
[Holly.tanner@columbiacountyny.com](mailto:Holly.tanner@columbiacountyny.com)

**Town of Athens**

Linda M. Stacey, Town Clerk  
2 First Street, Athens, NY  
(518) 945-1052 option 2  
[lstacey@townofathensny.com](mailto:lstacey@townofathensny.com)

**Town of Stockport**

Sandra M. Novak, Town Clerk  
Stockport Town Hall - 2787 Atlantic Avenue, Hudson, NY 12534  
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**Village of Athens**

Mary Jo Wynne, Village Clerk  
2 First Street, Athens, NY  
(518) 945-1551  
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**Ichabod Crane School District**

Michael Vanyo, Superintendent  
2910 Route 9, Valatie, NY 12184  
(518) 758-7575 ext. 3002  
[mvanyo@ichabodcrane.org](mailto:mvanyo@ichabodcrane.org)

**Hudson City School District**

Dr. Maria Lagana Suttmeier,  
Superintendent 215 Harry Howard Ave,  
Hudson, NY 12534 (518) 828-4360  
[suttmeierm@hudsoncsd.org](mailto:suttmeierm@hudsoncsd.org)

**Columbia County Airport**

Dean Knox, Airport Manager  
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(518) 828-7011  
*Email not available*

**Klinekill Airport**

George Kerner, Manager  
PO Box 271, Chatham, NY 12037  
(518) 527-2762  
*Email not available*

**CSX**

214 E Main Street, Batavia, NY 14020  
(585) 345-7468  
*Email not available*

**Athens Lower Village Historic District**

Lynn J. Brunner, Town of Athens Historian  
2 First Street, Athens, NY 12015  
(518) 945-1052  
*Email not available*

**Audubon Society of New York**

Elizabeth Burns, Development & Communications  
Associate  
State Headquarters – 2 Third Street, Suite 480, Troy, NY 12180  
(518) 869-9731  
[eburns@audubon.org](mailto:eburns@audubon.org)

**Greene County Historical Society**

90 County Road 42, Coxsackie, NY 12051  
(518) 731-6490  
*Email not available*

**Coxsackie Correctional Facility**

11260 State Route 9W, Coxsackie, NY  
(518) 731-2781  
*Email not available*

**Greene Correctional Facility**

165 Plank Road, Coxsackie, NY 12051  
(518) 731-2741  
*Email not available*

**Scenic Hudson**

Audrey Friedrichsen, Land Use and Environmental  
Advocacy Attorney  
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**Sierra Club Atlantic Chapter**

Roger Downs, Conservation Director  
744 Broadway, Albany, NY 12207  
(518) 426-9144  
[Atlantic.chapter@sierraclub.org](mailto:Atlantic.chapter@sierraclub.org)

**Greene County American Legion (3rd District)**

Keith Koster, Department Vice Commander  
6 Deerleap Place, Saratoga, NY 12866  
(518) 583-9235  
[Keith.koster@xerox.com](mailto:Keith.koster@xerox.com)

**Greene County Agricultural Society, Inc.**

Tara Licata, President  
P.O. Box 84, Greenville, NY 12083  
(518) 928-5457  
*Email not available*

**Central Hudson Gas & Electric Corp.**

Michael L. Mosher, President  
284 South Avenue, Poughkeepsie, NY 12601  
(845) 452-2700  
*Email not available*

**Association of Property Owners of Sleepy Hollow Lake, Inc.**

Laurel Mann, Association Manager  
Unit 1095, 92 Randy Road, Athens, NY 12015  
(518) 731-6175  
[LMann@sleepyhollowlake.org](mailto:LMann@sleepyhollowlake.org)

**Local Resident**

Doug Baxter  
71 Adams Rd, Athens, NY 12015  
[REDACTED]  
[REDACTED]

**Local Resident**

Carol A. Metz  
1381 Sleepy Hollow Rd, Athens, NY 12015  
*Telephone number not provided*  
[REDACTED]

**Local Resident**

Jeffery Rose  
2924 Route 385, Coxsackie, NY 12051  
[REDACTED]  
*Complete email not provided*

**Local Resident**

Dawn Shivar  
PO Box 33, Earlton, NY 12058  
[REDACTED]  
[REDACTED]

**Local Resident**

Louis Rolleri  
PO Box 108, Earlton, NY 12058  
[REDACTED]  
[REDACTED]

**Local Resident**

Kris Martin  
1755 Farm to Market Rd, Coxsackie, NY 12051  
[REDACTED]  
[REDACTED]

**Local Resident**

Cari Gardner  
*Address not provided*  
*Telephone number not provided*  
[REDACTED]

**Local Resident**

Patricia Meyers  
2008 Rt 385, Coxsackie, NY 12051  
[REDACTED]  
[REDACTED]

**Local Resident**

Michael H. Rausch  
180 County Route 81 #3, Climax, NY 12042  
*Telephone number not provided*  
[REDACTED]

**Local Resident**

Kevin Hicks  
*Complete address not provided*  
[REDACTED]  
[REDACTED]

**Local Resident**

Tessa Partridge  
1700 Farm to Market Rd, Coxsackie, NY 12051  
[REDACTED]  
*Email not provided*

**Local Resident**

Mary Blinn  
188 Mansion St, Coxsackie, NY 12051  
*Telephone number not provided*  
[REDACTED]

**Local Resident**

Patrick Doyle  
615 Vanderlyn Lane, Slingerland, NY 12159  
[REDACTED]  
[REDACTED]

**Local Resident**

Anson R Tollefson  
29 Elm St, Coxsackie, NY 12051  
[REDACTED]  
[REDACTED]

**Local Resident**

Dianne Ringwald  
57 New St, Coxsackie, NY 12051  
[REDACTED]  
*Email not provided*

**Local Resident**

Betty Cure  
96 Ely Street, Coxsackie, NY 12051

**Local Resident**

Pam Hollinde  
1667 Farm to Market Road, Coxsackie, NY 12051

**Local Resident**

Daryl Yost  
1667 Farm to Market Road, Coxsackie, NY 12051

**Local Resident**

Joe Ellis  
6 Van Dyck St, Coxsackie, NY 12051

**Local Resident**

Donald Gardner  
369 Tommy Trail #1244, Athens, NY 12015

**Local Resident**

Natalie Turner  
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**Local Resident**

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**Local Resident**

Rudolph Geiger  
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**Local Resident**

Mary-Ann Novak  
46 Sutton Place, Coxsackie, NY 12051

**Local Resident**

Jolene Yost  
1667 Farm to Market Road, Coxsackie, NY 12051

**Local Resident**

Leslie Copleston  
597 Riverside Ave, Coxsackie, NY 12051

**Local Resident**

Pat Maxwell  
PO Box 214, Coxsackie, NY 12051  
*Telephone number not provided*

**Local Resident**

Stacey Smith  
3 Luke St, Coxsackie, NY 12051  
*Telephone Number not provided*

**Local Resident**

Judy Zoller  
10 Luke St, Coxsackie, NY 12051

**Local Resident**

Cindy McCarran  
35 Noble St, Coxsackie, NY 12051  
*Telephone Number not provided*

**Local Resident**

Jeff and Lisa Hoessle  
2929 State Route 385, Coxsackie, NY 12051

**Local Resident**

Lorraine Ferrara  
2964 State Route 385, Coxsackie, NY 12051

**Local Resident**

Christie Schaefer  
2964 State Route 385, Coxsackie, NY 12051

**Local Resident**

Luciano Agovino  
10429 Route 9W, Coxsackie, NY 12051

**Local Resident**

Brian Tighe  
63 Sutton Place, Coxsackie, NY 12051

**Local Resident**

Frank Gerrain  
*Complete address not provided*

**Local Resident**

Mary Jo Jaeger  
*Complete address not provided*

**Local Resident**

Chris Chimento  
2159 Farm to Market Rd, Coxsackie, NY 12051

**Local Resident**

Andrew Tighe  
2135 Farm to Market Rd, Coxsackie, NY 12051

**Interested Party**

Tetra Tech  
Jacqueline Bruce  
1200 Scottsville Rd. Bldg C, Suite 181, Rochester, N 14624

**Interested Party**

Read and Laniado, LLP  
Sam Laniado, Partner  
25 Eagle Street, Albany, NY 12207-1901

**Interested Party**

Read and Laniado, LLP  
Tyler Wolcott, Associate  
25 Eagle Street, Albany, NY 12207-1901

**Interested Party**

John Benson  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

CT  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Sheldon Jacobovitch  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Mark Evans  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Ed Hodgins  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Ed Hill Jr.  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Robert Knighton  
*Address not provided*  
*Telephone number not provided*

**Interested Party**

Michael Deering  
*Address not provided*  
*Telephone number not provided*

Interested Party	Interested Party
Saving Greene	Kim Rose, on behalf of Saving Greene
Address not provided	2924 Route 385, Cocksackie, NY 12051
Telephone number not provided	[REDACTED]
[REDACTED]	[REDACTED]

**ADJACENT LANDOWNERS**  
**(OBTAINED FROM THE TOWN OF COXSACKIE ACCESSOR'S OFFICE)**

**Adjacent Landowner**

Michelle Lee Walker  
85 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Charles Ross  
1 Apple Blossom Ln, West Coxsackie, NY 12192

**Adjacent Landowner**

Luisa Recine  
1 Beechwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Carol Ann Luccio  
1 Elm St #1, Coxsackie, NY 12051

**Adjacent Landowner**

Mary Ann J. Lach  
1 Fairview Ave, Staten Island, NY 10314-3013

**Adjacent Landowner**

Ronald D'Amelia  
1 Fox Pl, Hicksville, NY 11801

**Adjacent Landowner**

Timothy P. Lenny  
1 Greenwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Christopher Bouju  
1 John St, Coxsackie, NY 12051

**Adjacent Landowner**

Gregory M. Cole  
1 Luke St, Coxsackie, NY 12051

**Adjacent Landowner**

Dennis P. Welch  
1 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Brent E. Bogardus  
1 Molly White Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Stuart Scott  
1 Northview Ter, Yonkers, NY 10703

**Adjacent Landowner**

Jere Dean  
1 Railroad Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Gregg R. Minshell  
1 Swartout Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Paul R. Smith  
10 Apple Blossom Ln, West Coxsackie, NY 12192

**Adjacent Landowner**

Joan Marie Mathes  
10 Beechwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Kathleen Ducey  
10 Bircher Ave, Poughkeepsie, NY 12601

**Adjacent Landowner**

Richard Perez  
10 Dunderave Rd, White Plains, NY 10603

**Adjacent Landowner**

Janice Snyder  
10 Greenwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Alexandra Chinae  
10 Howard Dr, W Coxsackie, NY 12192

**Adjacent Landowner**

Mark Zoller  
10 Luke St, Coxsackie, NY 12051

**Adjacent Landowner**

Brittany K. Rossano  
10 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Christine Norton  
10 Molly White Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Brenda Jean Hatch  
10 Raymond St, Coxsackie, NY 12051

**Adjacent Landowner**

Brian A. Jack  
100 Orchard St Apt B4, Rensselaer, NY 12144-4128

**Adjacent Landowner**

CFB Realty LLC  
1000 University Ave Ste 500, Rochester, NY 14601

**Adjacent Landowner**

Conifer Peppertree Ass  
1000 University Ave Ste 500, Rochester, NY 14607

**Adjacent Landowner**

Frank H. Drewello  
1002 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Robert T. Van Wie  
102 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Tara Fitzgerald  
10269 Estuary Dr, Tampa, FL 33647

**Adjacent Landowner**

Andrew Lampman  
103 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Kevin Heslin  
104 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Cynthia A. Czarnecki  
105 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Esther Sirol  
106 East 101St St, New York, NY 10029

**Adjacent Landowner**

Joan Young  
107 Browns Crossing, Catskill, NY 12414

**Adjacent Landowner**

Hilda E. Niosi  
107 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Robert W. Allo  
109 Heritage Rd, Clinton Corners, NY 12514

**Adjacent Landowner**

Frank E. Vermilyea  
109 Riverside Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Louis J. Perrine  
11 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Shawn L. Burdick  
11 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

County of Greene  
11 Main St, Catskill, NY 12414

**Adjacent Landowner**

James R. McPartland  
11 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Neil Seidner  
11 Riverview Ct, Athens, NY 12015

**Adjacent Landowner**

Richard J. Hummer  
11 Thompson St #2, Catskill, NY 12414-1331

**Adjacent Landowner**

Vincent Cunzio  
11 Valhalla Pl, White Plains, NY 10603

**Adjacent Landowner**

Paul M. Marks  
11 Van Houten Dr, Athens, NY 12015

**Adjacent Landowner**

Gilbert Jr Torres  
11 W 2nd St Unit 209, Bethlehem, PA 18015

**Adjacent Landowner**

Mansion Street Dev LLC  
11 Wayne Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Alma Parks  
11 Wayne Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Frederick Porter  
11 Whitbeck St, Cocksackie, NY 12051

**Adjacent Landowner**

Sherman Stott  
110 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Elliot Feinberg  
111 Hicks St Apt 7m, Brooklyn, NY 11201

**Adjacent Landowner**

Barbara L. Cook  
112 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Dawn M. Smith  
113 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Amy A. Keyser  
113 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Paul Rath  
1132 CR 351, Rensselaerville, NY 12147

**Adjacent Landowner**

Carol M. Keinath  
11335 Rt 9W, Cocksackie, NY 12051

**Adjacent Landowner**

Judith E. Halstead  
11464 State Rte 9W, Cocksackie, NY 12051

**Adjacent Landowner**

Kevin McCullagh  
115 Tammy Trl, Unit 1068, Athens, NY 12015

**Adjacent Landowner**

GNH Lumber Inc.  
11513 Route 32, Greenville, NY 12083

**Adjacent Landowner**

Albert F. Matter  
11640 Rt 9W, Cocksackie, NY 12051

**Adjacent Landowner**

Frances E. Matter  
11678 Rt 9W, Cocksackie, NY 12051

**Adjacent Landowner**

Wayne Allen Matter  
11678 State Route 9W, Cocksackie, NY 12051-3601

**Adjacent Landowner**

Joseph J. Berlin  
11683 Rt 9W, W Cocksackie, NY 12192

**Adjacent Landowner**

Intelligent Technol Solutions  
11786 Rt 9W, West Cocksackie, NY 12192

**Adjacent Landowner**

William Stacey  
118 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Karlo V. Busanic  
119 Ichabod Crane Cir #2045, Athens, NY 12015

**Adjacent Landowner**

Dorothy Dixson  
119 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

William S. Jr Kapusta  
12 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Dennis Varade  
12 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Michael A. DePietro  
12 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

John D. VanBuren  
12 Brom Bones Ln, Athens, NY 12015

**Adjacent Landowner**

Ruth Giangrande  
12 Charity Ct, Athens, NY 12015

**Adjacent Landowner**

Jason C. Raser  
12 Garret Pl, Glen Rock, NJ 07452

**Adjacent Landowner**

Ralph Giordiano  
12 Howard Dr, West Cocksackie, NY 12192

**Adjacent Landowner**

Joan B. Bess  
12 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

Timothy Jackson  
12 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Jan M. Dixon  
12 Raymond St, Cocksackie, NY 12051

**Adjacent Landowner**

Mary E. Hans  
12 Whitbeck St, Cocksackie, NY 12051

**Adjacent Landowner**

Richard Lewis Martin  
11623 Rt 9W, Cocksackie, NY 12051

**Adjacent Landowner**

Christopher C. Van Kuren  
120 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Keith L. Prostler  
123 Kings Rd, Cocksackie, NY 12051



**Adjacent Landowner**

Wayne Stevenson  
125 Cole Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Jo Ann G. McCarthy  
125 Creekwood Ln, Westminster, SC 29693

**Adjacent Landowner**

Gordon Pieruzzi  
125 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Jeffrey Lang  
125 Ichabod Crane Cir 2021, Athens, NY 12015

**Adjacent Landowner**

Ferguson Enterprises Inc  
12500 Jefferson Ave, Newport News, VA 23602

**Adjacent Landowner**

Anwar Uddin  
1256 White Planes Rd, Bronx, NY 10472

**Adjacent Landowner**

Walter David Vanderhoff  
12585 Woodbridge Rd, Greenwood, DE 19950

**Adjacent Landowner**

Warren Zimmer  
126 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Johanna D'Aleo  
126 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

John P. Flach  
127 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Flach Family Trust  
128 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

John Flach  
128 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Flach Dev. & Realty Inc.  
128 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

F & M Farms  
128 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Aaron P. Flach  
128 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Donald Wagner  
129 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Ruth Ciampa  
129 N Washington St, Athens, NY 12015

**Adjacent Landowner**

Mark L. Wagner  
13 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Melody Larocca  
13 Dunhill Dr, Somers, NY 10589

**Adjacent Landowner**

William McDevitt  
13 Hillcrest Ave, Montvale, NJ 07645

**Adjacent Landowner**

Carol Serazio  
13 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

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13 Legend Ct Unit 2100, Athens, NY 12015

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Peter M. Jr Kraljevich  
13 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Eugene Courtney  
13 Ridge Rd, Saugerties, NY 12477

**Adjacent Landowner**

William Sakmann  
13 Wall St, Farmingdale, NY 11735

**Adjacent Landowner**

Robert Welch  
134 County Rt 26, Climax, NY 12042

**Adjacent Landowner**

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134 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

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**Adjacent Landowner**

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135 Day St, Newington, CT 06111

**Adjacent Landowner**

Timothy Burke  
136 Clinton Ave, East Patchogue, NY 11772

**Adjacent Landowner**

Donna Lynn Sawchuk  
137 Brown St, Mineola, NY 11501

**Adjacent Landowner**

Michael Barberi  
138 Main St, Germantown, NY 12526

**Adjacent Landowner**

US Bank Trust NA  
13801 Wireless Way, Oklahoma City, OK 73134

**Adjacent Landowner**

John Lopez  
139 Kentucky Way, Freehold, NJ 07728

**Adjacent Landowner**

Arthur D. Hunt  
14 Apple Blossom Ln, Cossackie, NY 12051

**Adjacent Landowner**

Arthur D. Hunt  
14 Apple Blossom Ln, Cossackie, NY 12051

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John Flanagan  
14 Essex Pl, Commack, NY 11725

**Adjacent Landowner**

Elizabeth A. O'Connor  
14 Horatio St Apt 7b, New York, NY 10014

**Adjacent Landowner**

Richard T. Harris  
14 Lakeview Rd, Poughkeepsie, NY 12603

**Adjacent Landowner**

Denis St James  
14 Luke St, Cossackie, NY 12051

**Adjacent Landowner**

Eileen Becker  
14 Matthew Ln, Cossackie, NY 12051

**Adjacent Landowner**

Lawrence E. Moats  
14 N Washington St, Athens, NY 12015

**Adjacent Landowner**

Edward C. Zimmer  
142 Natures Ln, Miller Place, NY 11764

**Adjacent Landowner**

David Andrasz  
145 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Paul Craw  
145 South River St, Cossackie, NY 12051

**Adjacent Landowner**

Darrigh F. Coleman  
1450 Worchester Rd Apt 8307, Framingham, MA 01702

**Adjacent Landowner**

Kathy M. Ventura  
1452 Farm To Market Rd, Cossackie, NY 12051

**Adjacent Landowner**

Chrysta L. McHale  
146 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Henry Sarraga  
147 E 8th St, Brooklyn, NY 11218

**Adjacent Landowner**

Richard Tomecek  
1476 Apenzell Ln, Lewisville, TX 75067

**Adjacent Landowner**

Robert Mabey  
148 Stacey Rd, Cossackie, NY 12051

**Adjacent Landowner**

Stephen Ritter  
149 Potic Creek Rd, Earlton, NY 12058

**Adjacent Landowner**

Paul Dolan  
1490 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Andrea Lambertson  
15 Andre Ct 2130, Athens, NY 12015

**Adjacent Landowner**

Joseph Chast  
15 Apple Blossom Ln, W Cossackie, NY 12192

**Adjacent Landowner**

Occupations Inc.  
15 Fortune Rd, W Middletown, NY 10941

**Adjacent Landowner**

Mary E. Taylor  
15 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

William McGuigan  
15 Legend Ct 2052, Athens, NY 12015

**Adjacent Landowner**

Joanne Riley  
15 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

HSK Properties LLC  
15 Scenic Dr South, Salem, NY 10590

**Adjacent Landowner**

Stanley Conklin  
15 Utopian Pl, Airmont, NY 10901

**Adjacent Landowner**

Kenneth A. Gifford  
15 Van Houten Dr, Athens, NY 12015

**Adjacent Landowner**

Richard Schwartz  
15 W 72nd St Apt 23S, New York, NY 10023

**Adjacent Landowner**

Anne M. Maresca  
151 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark Minshell  
152 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Faile LLC  
153 Green St, Brooklyn, NY 11222

**Adjacent Landowner**

Patricia Spordone  
1536 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Richard Oringer  
1541 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Robert D. Daley  
1542 Rt 300, Newburgh, NY 12550

**Adjacent Landowner**

Joseph M. Anderson  
1581 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Hyla Lynn Reed  
16 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Robert E. Haight III  
16 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Edward J. Sr Mudge  
16 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Sound Capital LLC  
1601 Veterans Memorial Hwy, Islandia, NY 11749

**Adjacent Landowner**

Daniel M. Kohler  
1604 Noral Pl, Alexandria, VA 22308

**Adjacent Landowner**

Jack Urso  
161 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

K4K LLC  
16192 Coastal Hwy, Lewes, DE 19958

**Adjacent Landowner**

Thomas A. Kingsley  
165 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Carmen E. Roldan  
16573 Nw 21St St, Pembroke Pines, FL 33028

**Adjacent Landowner**

Kevin S. Jung  
166 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

BNY Mellon Trust Co  
1661 Worthington Rd, West Palm Beach, FL 33409

**Adjacent Landowner**

Richard Wilson  
169 Adams St East, East Islip, NY 11730

**Adjacent Landowner**

Christopher J Schlenker  
1692 Rt 385, Athens, NY 12015

**Adjacent Landowner**

Marianne Mitchell  
17 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Mizrachi Family Inv LLC  
17 Bow St, Forest Hills, NY 11375

**Adjacent Landowner**

Genesis Ind Prop Management  
17 Industrial Park, Cocksackie, NY 12051

**Adjacent Landowner**

Isaiah Rockefeller  
17 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Barbara Levy  
17 Minor Ct, West Nyack, NY 10994

**Adjacent Landowner**

Joseph Jr Ferrara  
17 Pleasant Pl, Kearny, NJ 07032

**Adjacent Landowner**

Sheri L. Roberts  
172 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bruce J. Whittaker  
173 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Evita M. Fedoryszyn-Whittaker  
173 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Alfred R. Wypler  
1736 K St, Wall Township, NJ 07719

**Adjacent Landowner**

Sean Tilley  
1743 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Walter McGarry  
1762 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Charles E. Ray  
177 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Michael Belycia  
18 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Thomas E. Jr Callan  
18 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

William C. IV Farrand  
18 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Bajrush Hysenaj  
18 Reservoir Rd #2, Highland, NY 12528

**Adjacent Landowner**

Lamar Ware  
1801 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Wayne Window Corp.  
181 Broad St, Hawthorne, NY 10632

**Adjacent Landowner**

Gilbert Saez  
183 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Edward W. Konow  
1832 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Thomas Forschner  
186 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Linda J. Nacey  
1883 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas Sterritt  
1884 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Bryan Francett  
1890 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Steven James Erdmann  
1892 Sleepy Hollow Rd 2099, Athens, NY 12015

**Adjacent Landowner**

Sue B. Legg  
19 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Frank Micalizzi  
19 Encampment Pl, Ridgefield, CT 06877

**Adjacent Landowner**

S H Lake Trustee  
19 Grissom Dr, Clifton Park, NY 12065

**Adjacent Landowner**

William Pigott  
19 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Timothy J. Shutter  
19 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Kevin G. Mc Kee  
19023 Harbor Cove Ln, Cornelius, NC 28031

**Adjacent Landowner**

Hope Kellerhouse  
193 Pine Ln, Saugerties, NY 12477

**Adjacent Landowner**

Walter Bigler  
194 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Carl T. Cary  
196 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Anthony Washington  
196 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Paul D. Mintz  
1971 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Brett Conlin  
1975 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Wendy Dederick  
1987 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Stephen Ko  
199 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Sarah Jane Smith  
2 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Steven Starke  
2 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Helen Matson  
2 Howard Dr, W Cocksackie, NY 12192

**Adjacent Landowner**

Sharon VanAlstyne  
2 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Seth F. Kunz  
2 Legend Ct, Athens, NY 12015

**Adjacent Landowner**

David A. Pratt  
2 Luke St, Cocksackie, NY 12015

**Adjacent Landowner**

Edward W. McDonald  
2 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Matthew Braden  
2 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Dennis T. Heines  
2 N Montgomery St, Athens, NY 12015

**Adjacent Landowner**

Sandra M. Petralia  
2 Tree Toad Ct, Athens, NY 12015

**Adjacent Landowner**

Vernon Jr Miller  
2 West Lakeview Trl, Wharton, NJ 07885

**Adjacent Landowner**

Lucas Morales  
2 Woodstone Ln, Palm Coast, FL 32164-7903

**Adjacent Landowner**

Michael Tozzi  
20 Ellen Ave, Mahopac, NY 10541

**Adjacent Landowner**

Anthony Sr Vining  
20 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Dale Lezatte  
20 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Kirsten Faltings  
20 Old Baltus Ct, Athens, NY 12015

**Adjacent Landowner**

Savatree Toolsie  
200 Claremont Ave 53, New York, NY 10027

**Adjacent Landowner**

Louise Menna Deyo  
200 Farm To Market Rd, Athens, NY 12015

**Adjacent Landowner**

Peter Poulin  
200 Old Siek Rd, Troy, NY 12180

**Adjacent Landowner**

Kevin Beiter  
2013 Sleepy Hollow Rd Unit 2129, Athens, NY 12015

**Adjacent Landowner**

Thomas M. Hobart  
203 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

William Geiss  
2059 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

David L. Fowlkes  
207 Kingsboro 2Walk Apt4c, Brooklyn, NY 11233

**Adjacent Landowner**

Claudia Labuda  
209 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard Martin  
209 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Beverly Walker  
2097 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Curtis E. Halsted  
21 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Megan N. Kreplin  
21 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Maria Sherman  
21 Shoal Dr, Barnegat, NJ 08005

**Adjacent Landowner**

Amelia Perrone Martino  
212 Leigh Anne Ln, Horse Shoe, NC 28742

**Adjacent Landowner**

Harley R. Johnson  
212 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Michael J. Tighe  
2121 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard L. Gibbs  
2151 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Tyrone Coleman  
2163 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark L. Favicchio  
219 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mary Agnes Cronce  
22 Broadway, Amsterdam, NY 12010-8315

**Adjacent Landowner**

Clarence C. Smith  
22 Harder Rd, Woodstock, NY 12498

**Adjacent Landowner**

Jeanne L. Cary  
22 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

William Van Alstyne  
22 Paddlewheel Ct, Waterford, NY 12188-5001

**Adjacent Landowner**

Robert Dennis  
220 Dover Pt Rd, Dover, NH 03820

**Adjacent Landowner**

Cynthia A. Costello  
223 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Rosemary H. Muller  
224 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Penobscot Realty Trust II  
225 Water St Ste 226A, Plymouth, MA 02360

**Adjacent Landowner**

Beth Ann Clark  
226 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Brian Dereamer  
23 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

William P. McKee  
23 Bridle Ln, Hicksville, NY 11801

**Adjacent Landowner**

Robert Fisher  
23 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Cologero Migliara  
230 Evans Ave, Elmont, NY 11003

**Adjacent Landowner**

R & W Green Structures LLC  
2315 Rt 81, Earlton, NY 12058

**Adjacent Landowner**

Day Ross Holdings LLC  
2315 State Route 81, Earlton, NY 12058

**Adjacent Landowner**

Joseph Adrian  
232 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Ducommun Aerostructures NY Inc  
23301 S Wilmington Ave, Carson, CA 90745

**Adjacent Landowner**

William A. Ferenczy  
234 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Ruth-Ann Clark  
235 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

April Reese  
24 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Ronald Plass  
24 Brom Bones Ln Unit 1243, Athens, NY 12015

**Adjacent Landowner**

Jennifer Rudolph  
24 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Alexander Jr Mathes  
24 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Scott Barbeau  
242 Dodge St, Beverly, MA 00415

**Adjacent Landowner**

Stephen Reilly  
245 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Sking Inc  
245 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Steven T. Dragon  
2455 State Rt 385, Cocksackie, NY 12051-3104

**Adjacent Landowner**

Paul Randazzo  
25 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Pina Altobelli  
25 Fulmar Rd, Mahopac, NY 10541

**Adjacent Landowner**

James A. Miele  
25 Glenwood Ave, Hiawatha, NJ 07034

**Adjacent Landowner**

Matthew C. Lampman  
25 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Shaun S. Groden  
25 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Gerard A. Landi  
25 Market Ln Unit 1186, Athens, NY 12015

**Adjacent Landowner**

Stuart Osborn  
25 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph G. Limbach  
25 Tree Toad Rd #2084, Athens, NY 12015

**Adjacent Landowner**

Joseph C. Jr. Failla  
253 Blacksmith Rd, Levittown, NY 11756

**Adjacent Landowner**

Joseph Ecker  
254 Mansion St, Cocksackie, NY 12051



**Adjacent Landowner**

Bruce F. Kaiser  
2551 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Weidman's Enterprises Inc  
257 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Bryan J. Frisbee  
258 Mansion St Apt 2, Coxsackie, NY 12051

**Adjacent Landowner**

Michael Sutherland  
26 Apple Blossom Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Frank Villanova  
26 Heather Dr, Clifton Park, NY 12065

**Adjacent Landowner**

Sharon Riley  
26 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Alice Agasan  
2607 Heron Landing Ct, Orlando, FL 32837

**Adjacent Landowner**

Schultz Farm & Properties LLC  
261 Swartekill Rd, Highland, NY 12528

**Adjacent Landowner**

Federico Marano  
2610 Crossland Hills Dr, Winston Salem, NC 27106-9823

**Adjacent Landowner**

Jean B. Mattice  
263 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

John Capaccio  
266 E 211Th St, Bronx, NY 10467

**Adjacent Landowner**

Robert Lucido  
266 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Donna M. Gianola  
27 Apple Blossom Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Haydee R S. Macera  
27 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Natural Resource Upper Hudson-Northern Catskill  
270 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Michelle Niosi  
272 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Kenneth Curik  
272 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Chelsea Streifeneder  
2755 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Reuben C. Jacobs  
2759 Nw 47Th Ter, Ft Lauderdale, FL 33313

**Adjacent Landowner**

Roland H. Ray  
28 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Eugene Millett  
28 Hollister St, Coxsackie, NY 12051

**Adjacent Landowner**

Rodney Levine  
28 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

First Reformed Church  
284 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

First Reformed Protestant  
284 Mansion St, West Coxsackie, NY 12192

**Adjacent Landowner**

Adam B. Cole  
289 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Joseph T. Jr Serignese  
29 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Anthony Monitto  
2900 St. Theresa Ave, Bronx, NY 10461

**Adjacent Landowner**

Francis J. Sapone  
2931 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Edward D. Jr. Ferenczy  
295 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Clifford Gross  
296 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Timothy Meier  
296 Route 51, Coxsackie, NY 12051

**Adjacent Landowner**

Charles Schaefer  
2964 Route 385, Coxsackie, NY 12051

**Adjacent Landowner**

Thomas Wexler  
297 Riverview Rd, Irvington, NY 10533

**Adjacent Landowner**

William T. Steele  
3 Appleblossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Michael St. Germain  
3 Beechwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Alex Betke  
3 Greenwood Dr, Coxsackie, NY 12051

**Adjacent Landowner**

Peter Wettingfeld  
3 Howard Dr, W Coxsackie, NY 12192

**Adjacent Landowner**

Jacob N. Rulison  
3 John St, Coxsackie, NY 12051

**Adjacent Landowner**

Fred Schomaker  
3 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Patricia M. Scott  
3 Molly White Dr, Coxsackie, NY 12051

**Adjacent Landowner**

William Goodine  
3 School St, Coxsackie, NY 12051

**Adjacent Landowner**

Sunset Vista Mobile Vill LLC  
3 Shale Ln, Campbell Hall, NY 10916

**Adjacent Landowner**

Eugene Pellegrino  
3 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Anthony Gatt  
30 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Amber C. Clark  
30 Castlepoint, Athens, NY 12015

**Adjacent Landowner**

Steven Lee  
30 Dorchester Rd, Ronkonkoma, NY 11779

**Adjacent Landowner**

Joyce Reilly  
30 Needle Park Cir Apt 6, Queensbury, NY 12804

**Adjacent Landowner**

Ari Ilan  
300 North End Ave Apt 17A, New York, NY 10282

**Adjacent Landowner**

Mark H. Flagler  
3033 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Deborah Carr  
309 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Raymond A. Donovan  
311 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Paul T. Klein  
312 Bender Ln, Glenmont, NY 12077-2819

**Adjacent Landowner**

Natale McAuley  
313 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Rose A. Esposito  
316 Sloan Ct, Matawan, NJ 07747-4718

**Adjacent Landowner**

Frederick Donovan  
318 Mansion St, West Coxsackie, NY 12192

**Adjacent Landowner**

Kenneth O. DeRose  
32 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Bradley S. Schwebler  
32 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

James Grundman  
32 Watermelon Hill Rd, Mahopac, NY 10541

**Adjacent Landowner**

Barrie R. Baum  
320 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Margaret M. Jones  
323 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Raymond Peter Jr Cary  
323 Mansion St, West Cocksackie, NY 12192

**Adjacent Landowner**

Ausrine Byla  
324 21st St #2, Brooklyn, NY 11215

**Adjacent Landowner**

Lance Palmateer  
324 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Robin Pascuzzi  
325 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

John E. Halsted  
325 Medway Earlton Rd, Earlton, NY 12058

**Adjacent Landowner**

Katherine G. Hotaling  
3290 Rt 81, Surprise, NY 12176

**Adjacent Landowner**

Martina Gallagher  
3295 County Rt 21, Kinderhook, NY 12106

**Adjacent Landowner**

Keith Matson  
33 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Kevin Miller  
33 Haggerty Hill Rd, Rhinebeck, NY 12572

**Adjacent Landowner**

Dan Rubino  
331 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Jean Sagendorph  
333 E 80th St Apt 2H, New York, NY 10075-0664

**Adjacent Landowner**

Harold A. Hotaling  
333 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Mark C. Sr Flach  
334 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Cedar Shade Farm LLC  
334 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Stewart Seaburg  
335 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph O. Skilba  
337 Murders Kill Rd, Athens, NY 12015

**Adjacent Landowner**

Kathryn Mccoach  
339 Lake Dr Lake, Peekskill, NY 10537

**Adjacent Landowner**

Karl Kilts  
34 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Bonnie JeanAntonucci Cordaro  
34 Smith Crossing Rd, Wappinger Falls, NY 12590

**Adjacent Landowner**

Jill Marie Mcquade  
340 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Michael D. Deering  
341 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Rocco Cristina  
345 Herricks Dr, New Hyde Park, NY 11040

**Adjacent Landowner**

Eva Rosato  
348 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Jonathan Snowden  
349 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Edward McDonald  
35 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Anthony J. Iannaccone  
35 Fresh Pond Ln, Southampton, NY 11968

**Adjacent Landowner**

Scott A. Sitzer  
35 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

John Manca  
35 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Michael B. Wilhelmsen  
350 Mansion St, West Cocksackie, NY 12192

**Adjacent Landowner**

Mark A. Andersen  
351 Potic Creek Rd, Earlton, NY 12058

**Adjacent Landowner**

Richard E. Brand  
352 Oldham Rd, Wayne, NJ 07470

**Adjacent Landowner**

Edwin Schultz  
355 Scheller Park Rd, W Cocksackie, NY 12192

**Adjacent Landowner**

Sean J. McCarthy  
357 West 55th St Apt 1J, New York, NY 10019

**Adjacent Landowner**

Donna J. Ames  
358 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Jennifer Candelaria  
36 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Judith M. Miller  
36 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Earlean Golson  
36 Edgecomb Ave, New York, NY 10030

**Adjacent Landowner**

Domenick J. Costanzo  
36 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

John Riley  
360 Kings Rd, Cocksackie, NY 12051-3621

**Adjacent Landowner**

Paula Stenzler  
3612 Matira Ct, Cleront, FL 34711

**Adjacent Landowner**

Darren Cordeau  
368 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Scott M. Bennett  
37 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Patrick G. West  
37 New St, Cocksackie, NY 12051

**Adjacent Landowner**

Aaron's Assets Inc  
370 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Shamsu Uddin Ahmed  
37-06 72nd St Apt 1C, Jackson Heights, NY 11372

**Adjacent Landowner**

Barbara Weinstein  
373 Murderskill Rd, Athens, NY 12015

**Adjacent Landowner**

Herbert Moore  
378 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Charles A. Martinez  
38 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bradley Fay  
38 Haunted Cir, Athens, NY 12015

**Adjacent Landowner**

Navin Singh  
38 Ichabod Crane Cir, Athens, NY 12015

**Adjacent Landowner**

Linda Perry  
382 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

John Busch  
3833 Bailey Ave, Bronx, NY 10463

**Adjacent Landowner**

Danl Donovan  
384 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Daniel J. Bonge  
386 Massapequa Ave, Massapequa, NY 11758

**Adjacent Landowner**

Michelle L. Bonesteel  
387 County Rt 403, Greenville, NY 12083

**Adjacent Landowner**

Henry Palmer  
39 Apple Blossom Ln, Cosackie, NY 12051

**Adjacent Landowner**

George H. Jr Call  
39 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark Horn  
39 Washington Ave, Cocksackie, NY 12015

**Adjacent Landowner**

Paksiu Chiu  
39-16 50th St, Woodside, NY 11377

**Adjacent Landowner**

Ronald F. Hotaling  
396 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Stephen Salluce  
396 Murderkill Rd, Athens, NY 12015

**Adjacent Landowner**

Derek J. Vasapollo  
398 B Turnpike St, South Easton, MA 02375

**Adjacent Landowner**

Derek J. Vasapolio  
398B Turnpike St, South Easton, NY 02375

**Adjacent Landowner**

Brenda Livingston  
4 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Guy W. Hazelton  
4 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Jonathan E. Kelly  
4 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

David Hynes  
4 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Ryan Burdick  
4 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Mary Patricia Leonard  
4 Lawrence Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Jonathan Meier  
4 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

India Fitzgerald  
4 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas E. Chewins  
4 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Erich A. Schubert  
4 Rt 42, Cocksackie, NY 12051

**Adjacent Landowner**

Catherine M. O'Keefe  
4 Washington Ave, Hampton Bays, NY 11946

**Adjacent Landowner**

Michele A. Bowman  
4 Wolf Ct Unit 1185, Athens, NY 12015

**Adjacent Landowner**

Edward Greenaway  
40 Church St, Cocksackie, NY 12051

**Adjacent Landowner**

Richard Jr Welch  
40 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard J. Bruno  
402 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Donna Heath  
41 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Stephen Wilson  
41 Morningside Rd, Verona, NJ 07044

**Adjacent Landowner**

Michael De Pietro  
41 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

County of Greene  
411 Main St, Catskill, NY 12142

**Adjacent Landowner**

State Of New York  
411 Main St, Catskill, NY 12414

**Adjacent Landowner**

County of Greene  
412 Main St, Catskill, NY 12414

**Adjacent Landowner**

Aleksander Myftarago  
415 92nd St Apt 1L, Brooklyn, NY 11209

**Adjacent Landowner**

Joseph Viggiani  
42 Revere Rd, Ardsley, NY 10502

**Adjacent Landowner**

Lawrence Conforti  
423 Stewart Ave, Bellmore, NY 11710

**Adjacent Landowner**

Nicholas P. LaFountain  
43 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Rachel LaFountain  
43 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Robert J. Sr Van Valkenburg  
43 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

David Nye  
43 Lockwood Pl, Clifton, NJ 07012

**Adjacent Landowner**

David Walsh  
43 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

James Cramer  
43 Van Brunt Dr, Athens, NY 12015

**Adjacent Landowner**

Francis Hefferin  
43 Wendover Dr, Huntington, NY 11743-2034

**Adjacent Landowner**

Ronald D. Vinson  
437 Pelham Rd, New Rochelle, NY 10805

**Adjacent Landowner**

Paul A. Sutton  
44 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

Jay F. Derby  
442 North Quaker Ln, Hyde Park, NY 12538

**Adjacent Landowner**

Jimmie Womack  
442 Plymouth Ave, Schnectady, NY 12308

**Adjacent Landowner**

Charles E. Irvis  
45 Bailey St, Coxsackie, NY 12051

**Adjacent Landowner**

Ronald M. Daoust  
45 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Robert J. Ihlenburg  
451 E Allen St, Hudson, NY 12534

**Adjacent Landowner**

Gerald P. Jr Griffin  
46 Lafayette Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Antonio C. Nepomuceno  
46-03 211th St, Bayside, NY 11361

**Adjacent Landowner**

Fernando Babbino  
47 Brenden Ct, Clifton Park, NY 12065

**Adjacent Landowner**

James Kennedy  
47 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

Charles Maggio  
472 North Country Rd, St James, NY 11780

**Adjacent Landowner**

Dean Buchanan  
474 Schoharie Tpke, Athens, NY 12015

**Adjacent Landowner**

Charles A. Martinez  
48 Flint Mine Rd, Coxsackie, NY 12051



**Adjacent Landowner**

Gordon W. Bennett  
48 Johns Jog #1156, Athens, NY 12015

**Adjacent Landowner**

Shelsamco Inc  
48 Maple St, Blue Point, NY 11715

**Adjacent Landowner**

Ann Benenati  
49 Henry St, Selden, NY 11784

**Adjacent Landowner**

Evangline Sofia Eddy  
49 Ichabod Crane Cir, Athens, NY 12015

**Adjacent Landowner**

Alice Maxstadt  
49 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bruce Baxter  
49 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Shirley A. Eglen  
4905 Ashford Dr, Upper Marlboro, MD 20772

**Adjacent Landowner**

Brian Daggett  
499 Shady Ln, Coeymans Hollow, NY 12046

**Adjacent Landowner**

Chad Barrett  
5 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Linda Spano  
5 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Robert Cole  
5 Catskill Ct, Athens, NY 12015

**Adjacent Landowner**

Charles Herwick  
5 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Leighton Herron  
5 Grossman St, Melville, NY 11747

**Adjacent Landowner**

Goerge Link  
5 Harbor Ct, Copaigue, NY 11726

**Adjacent Landowner**

Oscar Valencia  
5 Howard Dr, W Cocksackie, NY 12192

**Adjacent Landowner**

Stephen Buhrke  
5 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Dominic J. Yannazzone  
5 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

Roger Burdick  
5 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Charles J. Van Alphen  
5 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Mary A. Williams  
5 Morningside Dr, Delmar, NY 12054

**Adjacent Landowner**

Letizia Cirino  
5 Munson Rd, Pleasantville, NY 10570

**Adjacent Landowner**

Aierle T. Dickson  
5 Railroad Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Dominic Konsul  
5 School St, Cocksackie, NY 12051

**Adjacent Landowner**

Marie Taylor  
50 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Vincent DiBenedetto  
50 Redwood Ave, Staten Island, NY 10303

**Adjacent Landowner**

James W. McKenney  
50 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Steven R. Muller  
500 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

James Chiudina  
51 Brom Bones Ln, Athens, NY 12015

**Adjacent Landowner**

Dean L. Hanson  
51 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Richard K. Hanse  
51 Sutton Pl, Cossackie, NY 12051

**Adjacent Landowner**

Camilo Alvarez  
514 East 9Th St, Brooklyn, NY 11218

**Adjacent Landowner**

Johnny Skalski  
52 Edgewood Ave, New Providence, NJ 07974

**Adjacent Landowner**

Sylvia J. Wendover  
52 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Jean Salisbury  
52 Salisbury Rd, Cossackie, NY 12051

**Adjacent Landowner**

Michael J. Jr. McHale  
52 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Victoria D. Connolly  
53 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Timothy E. Boakes  
531 Adams Rd, Cossackie, NY 12051

**Adjacent Landowner**

Richard Dambra  
54 Christine Ct, Stormville, NY 12582

**Adjacent Landowner**

Evelyn E. Diaz  
54 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Richard C. Bauer  
54 Van Houten Dr, Athens, NY 12015

**Adjacent Landowner**

Anthony Olivieri  
540 Kissam Rd, Peekskill, NY 10566

**Adjacent Landowner**

Sheila M. Ditchfield  
55 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

James Edge  
55 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

John Jr DeRuggiero  
55 Rte 66 East St, Kerhonkson, NY 12446

**Adjacent Landowner**

Darryl Proper  
55 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Alexander Ritter  
552 Adams Rd, Cossackie, NY 12051

**Adjacent Landowner**

Ralph Lento  
56 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Edward Tompkins  
56 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Jack Utano  
56 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Thomas Meier  
56 Mile Square Rd, Yonkers, NY 10701

**Adjacent Landowner**

Eulalia Gonzales  
5650 Netherland Ave, Riverdale, NY 10471

**Adjacent Landowner**

John F. Benson  
57 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

John P. De Luca  
57 Fallen Tree Ln #1117, Athens, NY 12015

**Adjacent Landowner**

G Family Properties LLC  
57 Townsend Rd, Wanaque, NJ 07465

**Adjacent Landowner**

Daniel Meier  
576 Flint Mine Rd, Cossackie, NY 12051

**Adjacent Landowner**

Robert C. Desrosiers  
58 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Kenneth Donofrio  
58 Longdale St, Staten Island, NY 10314

**Adjacent Landowner**

Daniel F. Westfall  
58 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Roger Rice  
580 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Douglas Koch  
59 Flats Rd, Athens, NY 12015-4800

**Adjacent Landowner**

Jennifer E. Lindstrom  
59 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

Barton F. Wallace  
59 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Michelle A. Santos  
59 West Bridge St, Catskill, NY 12414

**Adjacent Landowner**

Donald S. Van Schaack  
6 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Colan Warden  
6 Aron Dr Apt 3, Cocksackie, NY 12051

**Adjacent Landowner**

Terence E. Lein  
6 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Maria Dusevic  
6 Gail Ln, Poughquag, NY 12570

**Adjacent Landowner**

Gregory Hajduk  
6 Genesee Ave, Lake Katrine, NY 12445

**Adjacent Landowner**

LKBD Company LLC  
6 Greenbrair Ln, Dix Hills, NY 11746

**Adjacent Landowner**

Wayne G. Parrow  
6 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

John V. Kusisto  
6 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Allan Ingram  
6 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Alfred Williams  
6 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Kathleen P. VanFonda  
6 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

Gail Fredenburgh  
6 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Erik Marsilio  
6 Raymond St, Cocksackie, NY 12051

**Adjacent Landowner**

Jennifer Lento  
60 Church St, Cocksackie, NY 12051

**Adjacent Landowner**

James M. Peek  
60 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Janet A. Lyons  
60 Sparrow Ridge Rd, Carmel, NY 10512

**Adjacent Landowner**

Dale S. Palmer  
60 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Franco Marano  
60 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Donniel Schulman  
61 Deal St, Harrington Park, NJ 07640

**Adjacent Landowner**

Bruce A. Coscia  
61 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Pennymac Loan Services LLC  
6101 Condor Dr, Moor Park, CA 93021

**Adjacent Landowner**

Northeast Wind Projects LLC  
615 Vanderlyn Ln, Slingerlands, NY 12159

**Adjacent Landowner**

David L. Parella  
62 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Barry J. Brandow  
62 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

James J. Mcdermott  
62 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Vincent Pepe  
628 Empire Ave, North Babylon, NY 11703

**Adjacent Landowner**

Ann Curtis  
63 Dame Van Winkle Cir, Athens, NY 12015

**Adjacent Landowner**

Steven J. Hales  
63 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

John E. Morrone  
63 Pembroke Dr, Mineola, NY 11501-2121

**Adjacent Landowner**

Alexandra N. Reuter  
63 Sutton Pl, Cossackie, NY 12051

**Adjacent Landowner**

Sheryl Ann Konsul  
64 Church St, Cossackie, NY 12051

**Adjacent Landowner**

JCJM Cossackie LLC  
64 Hinrichsen Hts, Cossackie, NY 12051

**Adjacent Landowner**

S Sadlon  
64 Lupine Way, Stirling, NJ 07980

**Adjacent Landowner**

Florette Barror  
65 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Kenn E. Dittmar  
65 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Michael Bernholz  
65 Red Maple Rd, Shokan, NY 12481

**Adjacent Landowner**

Kim VanAusdle  
66 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Robert T. De Luca  
66 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Stephen Nelson  
67 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Perry M. Lasher  
68 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Wais Properties LLC  
683 Farm to Market Rd, Athens, NY 12015

**Adjacent Landowner**

Christopher R. Bourguignon  
69 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Michael Bland  
7 Apple Blossom Ln, Cossackie, NY 12051

**Adjacent Landowner**

Michael J. Kratochwill  
7 Beechwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Foursilli Dev Corp  
7 Brad St, Delmar, NY 12054

**Adjacent Landowner**

David Perilli  
7 Greenlawn Rd Cortland Manor, NY 10567

**Adjacent Landowner**

Joseph Marafioti  
7 Greenwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Karen L. Olthaus  
7 Howard Dr, W Cossackie, NY 12192

**Adjacent Landowner**

Thomas E. Jr Messick  
7 Luke St, Cossackie, NY 12051

**Adjacent Landowner**

Brent E. Bogardus  
7 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Garry J. Palmer  
7 Pheasant Ln, Catskill, NY 12414

**Adjacent Landowner**

Carla Picayo  
7 S Warren St, Athens, NY 12015

**Adjacent Landowner**

Ronald M. Daoust  
7 School St, Cocksackie, NY 12051

**Adjacent Landowner**

Louis A. Jr. Van Zutphen  
7 Sleepy Ct #1009, Athens, NY 12015

**Adjacent Landowner**

Edward S. Jr Tuttle  
7 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Mark Nadolne  
7 Tulip Ln, Port Washington, NY 11050

**Adjacent Landowner**

Eric R. Carlson  
7 Will Palmer Rd, Catskill, NY 12414

**Adjacent Landowner**

Andrew A. Berlin  
70 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas Friel  
70 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Edward A. Lee  
70 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph Jr Wikar  
71 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

David Dorpfeld  
71 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

Gary Hillicoss  
71 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Glisobel M. Gonzalez  
72 Thiells Rd, Stony Point, NY 10980

**Adjacent Landowner**

David F. Tyner  
72 Van Houten Dr 2161, Athens, NY 12015

**Adjacent Landowner**

Stephen E. Daniel  
723 Jerome St, Brooklyn, NY 11207

**Adjacent Landowner**

Angela F. Gagliardo  
730 Willow Rd, Lancaster, PA 17601

**Adjacent Landowner**

Gary A. Walkley  
745 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Carlos A. Rivera  
75 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Jean Nadler  
75 Randy Rd Unit 1036, Athens, NY 12015

**Adjacent Landowner**

Randall W. Squier  
75 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

George Anderson  
753 Durant Ave, Staten Island, NY 10308

**Adjacent Landowner**

Sal Van Gelder  
7569 Las Couces Ct, Boynton Beach, FL 33437

**Adjacent Landowner**

Roger R. Wood  
76 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

John Stumpf  
76 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph P. Sluszka  
77 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

April D. Wildey  
77 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Doris Horn  
77 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Bryan Sweeney  
77-17 250th St, Bellerose, NY 11428

**Adjacent Landowner**

Matthew Dorr  
78 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Colleen Ogilvie  
79 Gendron Dr, Wells, ME 04090

**Adjacent Landowner**

Frank V. Jr Hussey  
8 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Alan C. Mingo  
8 Bart Dr, Canton, CT 06019

**Adjacent Landowner**

Thomas J. Olivett  
8 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Jason A. Irwin  
8 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Paul Candelaria  
8 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Julie A. Silvestri  
8 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Shawn A. Clouthier  
8 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Catherine E. Sossei  
8 Orchard Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Jorge Luis Rivera  
8 Whitbeck St, W Cocksackie, NY 12192

**Adjacent Landowner**

Joseph J. Berlin  
80 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Bryan Riley  
80 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Rhonda Riley  
80 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Annette De Luccy  
80 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

St Mary's Catholic Church  
80 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Cocksackie Housing Dev Fund Co  
800 Bethany Village, West Cocksackie, NY 12192

**Adjacent Landowner**

Melvin O. Parker  
8000 Shore Front Pkwy, Rockaway Beach, NY 11693

**Adjacent Landowner**

Jose L. Carrera  
81 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Matthew J. Lonero  
81 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

William H. Schaefer  
81 New St, Cocksackie, NY 12051

**Adjacent Landowner**

Donald F. Jr Quinlivan  
819 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Lyden Enterprises LLC  
82 Farm Rd, Copake, NY 12516

**Adjacent Landowner**

Dorothy Smith  
82 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mid Me Re LLC  
82 Westview Rd, Damariscotta, ME 04543

**Adjacent Landowner**

Annette J. Kasenko  
84 Superstitious Dr, Athens, NY 12015



**Adjacent Landowner**

Stanley R. Whitbeck  
84 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Dale Sutton  
85 B G Partridge Rd, Windham, NY 12496

**Adjacent Landowner**

Howard J. D'arcangelis  
85 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Brian J. Moore  
85 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Salisa Baraichi-Pinon  
85 Topland Rd, Mahopac, NY 10541

**Adjacent Landowner**

David Myer  
86 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph Persichilli  
86 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Maria Chamoun  
8610 Bay 16th St Fl 2, Brooklyn, NY 11214

**Adjacent Landowner**

Neal J. Falgiano  
865 Farm To Market Rd, Athens, NY 12015

**Adjacent Landowner**

Mark P. Maraglio  
87 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Patricia Gransbury  
87 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Gilbert A. Palmer  
875 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Richard Palmer  
875 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Edward A. Tozier  
88 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Rosa Clarke  
88-10 Whitney Ave #1G, Elmhurst, NY 11373

**Adjacent Landowner**

Cit Bank NA  
888 Walnut St, Pasadena, CA 91101

**Adjacent Landowner**

Max K. Rausch  
89 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Lorraine A. Roberts  
892 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Mary Clark  
9 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Robert Rahn  
9 Boyd Pl, Monroe, NY 10950

**Adjacent Landowner**

Amedeo Matteo  
9 Charity Ct Unit 1181, Athens, NY 12015

**Adjacent Landowner**

Robert Taylor  
9 Hemlock Ln, Wingdale, NY 12594-9604

**Adjacent Landowner**

Ronald Armstrong  
9 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

James H. Dowdle  
9 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas J. Fori  
9 Sunset Blvd, Cocksackie, NY 12051

**Adjacent Landowner**

John Condy  
9 Supertitious Dr, Athens, NY 12015

**Adjacent Landowner**

Victor J. Woytowich  
9 Yost Ct #1208, Athens, NY 12015

**Adjacent Landowner**

James K. Meade  
90 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Karen A. Schubert  
90 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Julio Feijoo  
90-67 186th, St Hollis, NY 11423

**Adjacent Landowner**

Daniel R. Visconti  
907 Noxon Rd, Wappingers Falls, NY 12590

**Adjacent Landowner**

William Wells  
91 Overlook Dr, Sebastian, FL 32976

**Adjacent Landowner**

Vanessa Grecco  
92 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

SHL Sewerage Co Inc  
92 Randy Rd Unit 1095, Athens, NY 12015

**Adjacent Landowner**

Michael Balsano  
93 Petersville Rd, New Rochelle, NY 10801

**Adjacent Landowner**

Michael R. Veeder  
93 Veeder Rd, Earlton, NY 12058

**Adjacent Landowner**

Victor Sr Deleon  
939 Tunsbrook Dr, Toms River, NJ 08753

**Adjacent Landowner**

Ralph Laivins  
94 Weaver Ave, Ephrata, PA 17522-1377

**Adjacent Landowner**

James A. Fitzgerald  
95 S Washington Ave, Athens, NY 12015

**Adjacent Landowner**

Richard L. Sr Ritter  
957 Flats Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Wayne Speenburgh  
96 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Philip A. Chiarella  
964 Flats Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Judee L. Brennan  
97 Kaydeross Park Rd, Saratoga Springs, NY 12866

**Adjacent Landowner**

Kenneth Roberts  
98 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Virgin Land Inc  
P.O. Box 55, Stanfordville, NY 12581

**Adjacent Landowner**

21st Century Dev. Corp.  
P.O. Box 100, Athens, NY 12015

**Adjacent Landowner**

Karlsen Contracting LLC  
P.O. Box 397, Athens, NY 12015

**Adjacent Landowner**

Francis J. Casey  
P.O. Box 146, Athens, NY 12015

**Adjacent Landowner**

Maureen Ray  
P.O. Box 05253, Bergenfield, NJ 07621

**Adjacent Landowner**

J Muhammed A. Khan  
P.O. Box 1001, Bethpage, NY 11714

**Adjacent Landowner**

Michael E. Keicher  
P.O. Box 103, Leeds, NY 12451

**Adjacent Landowner**

Coxsackie Hose Co #3  
P.O. Box 303, Coxsackie, NY 12051

**Adjacent Landowner**

Robert J. Deily  
P.O. Box 489, Catskill, NY 12414

**Adjacent Landowner**

NYS Urban Dev. Corp.  
P.O. Box 191, Catskill, NY 12414

**Adjacent Landowner**

Columbia-Boulder LLC  
P.O. Box 69, Coeymans, NY 12045

**Adjacent Landowner**

Steven O. Bruno  
P.O. Box 70, Coeymans, NY 12045-0070

**Adjacent Landowner**

PA Wolfe Dev LLC  
P.O. Box 334, Coxsackie, NY 12051

**Adjacent Landowner**

Carolann Luccio  
P.O. Box 295, Coxsackie, NY 12051

**Adjacent Landowner**

C & S Properties LLC  
P.O. Box 226, Coxsackie, NY 12051

**Adjacent Landowner**

Leonard Stott  
P.O. Box 284, Coxsackie, NY 12051

**Adjacent Landowner**

Greene County Historical Soc.  
P.O. Box 44, Coxsackie, NY 12051

**Adjacent Landowner**

Robert Bedford  
P.O. Box 353, Coxsackie, NY 12051

**Adjacent Landowner**

Ruth E. Peters  
P.O. Box 263, Coxsackie, NY 12051

**Adjacent Landowner**

Gustave Schoenborn  
P.O. Box 333, Coxsackie, NY 12051

**Adjacent Landowner**

Marsan Properties Inc  
P.O. Box 250, Coxsackie, NY 12051

**Adjacent Landowner**

John Macari  
P.O. Box 307, Coxsackie, NY 12051

**Adjacent Landowner**

Eileen D. Abel  
P.O. Box 399, Coxsackie, NY 12051

**Adjacent Landowner**

Edward Fedoryszyn  
P.O. Box 73, Coxsackie, NY 12051

**Adjacent Landowner**

Robert Eskinazi  
P.O. Box 132, Coxsackie, NY 12051

**Adjacent Landowner**

William Bennett  
P.O. Box 56, Coxsackie, NY 12051

**Adjacent Landowner**

Louis P. Betke  
P.O. Box 203, Coxsackie, NY 12051

**Adjacent Landowner**

Chellie Lee Apa  
P.O. Box 283, Coxsackie, NY 12051

**Adjacent Landowner**

Traci Wildey  
P.O. Box 46, Coxsackie, NY 12051

**Adjacent Landowner**

Gary Erich Brauer  
P.O. Box 1048, Fairborn, OH 45324-1048

**Adjacent Landowner**

Flach Dev & Realty Inc  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

Aaron's Assets LLC  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

W A Properties LLC  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

Paul Pereira  
P.O. Box 051312, Indian Orchard, MA 1151

**Adjacent Landowner**

Garry Mendez  
P.O. Box 293, Millbrook, NY 12545

**Adjacent Landowner**

Mary Jo Pigott  
P.O. Box 512, New Baltimore, NY 12124

**Adjacent Landowner**

James R. Buchanan  
P.O. Box 183, Pallenville, NY 12463

**Adjacent Landowner**

Scott Ray Wayne  
P.O. Box 680666, Park City, UT 84068-0666

**Adjacent Landowner**

Summit Tech&Resources LLC  
P.O. Box 100, Ramsey, NJ 07446

**Adjacent Landowner**

Dorothy Reyngoudt  
RR 1 Box 6, West Coxsackie, NY 12192

**Adjacent Landowner**

Jon Tower  
P.O. Box 347, South Cairo, NY 12482

**Adjacent Landowner**

James V. Leo  
P.O. Box 938, Southbury, CT 05488

**Adjacent Landowner**

Archaeological Ass Inc LI Chap  
P.O. Box 268, Southold LI, NY 11971

**Adjacent Landowner**

Wenwei LLC  
43 Fifth Ave Apt 6W, New York, NY 10003

**Adjacent Landowner**

Kuxakee Prop. LLC  
80 Beecher Rd., Cocksackie, NY 12051

**\*Adjacent Landowner**

Garden Club  
368 Johnny Cake Ln, Cocksackie, NY 12051

**\*Adjacent Landowner**

Bethany Village Housing  
318 Mansion St, W Cocksackie, NY 12192

**\*Adjacent Landowner**

William Matter  
11612 Rt 9W, Cocksackie, NY 12051

**\*Adjacent Landowner**

William Matter  
11539 Rt 9W Cocksackie, NY 12051

**\*\*Adjacent Landowner**

Spoor Cemetery  
Sleepy Hollow Rd, Cocksackie, NY 12051

\*Hecate Greene does not have complete mailing addresses for these stakeholders. As explained in the PIP Plan, Hecate Greene expanded the definition of adjacent landowners to those within 2,500 feet of the Facility. To identify adjacent landowners, Hecate Greene requested and received from the Town of Cocksackie a certified list of addresses within the 2,500 feet. Some addresses on the list, however, were incomplete. Therefore, the parcel address provided was used for these stakeholders.

\*\*Hecate Greene was not provided a complete mailing or parcel address for this stakeholder. Please see comment above. Therefore, no notice was provided.

Note: 15 adjacent parcels did not have owner information provided. Therefore, no notice was provided for these parcels.

## **Attachment 3 – Affidavit of E-mailing**

Case 17-F-0619

*Application of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC for a Certificate of Environmental Compatibility and Public Need Pursuant to Article 10 of the Public Service Law for Construction of a Solar Electric Generating Facility Located in the Town and Village of Coxsackie, Greene County.*

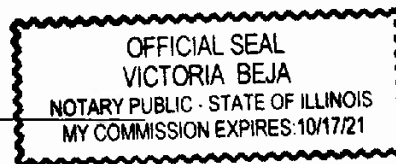
## **AFFIDAVIT OF EMAILING**

I, Gabriel Wapner of Hecate Energy LLC, in Chicago, Illinois, caused the email entitled 'Notice of Submission of Preliminary Scoping Statement', a copy of said email which is attached, to be electronically sent on May 22, 2018 to the email addresses on the captioned project Master Stakeholder List. A copy of said Master Stakeholder List to which this email was sent is provided as Appendix B to the Preliminary Scoping Statement

*Gabe Wapner*  
Gabriel Wapner

Sworn to me before this 24<sup>th</sup> day of May 2018

*Victoria Beja*  
Notary Public





From: Hecate Energy  
Subject: Notice of Submission of Preliminary Scoping Statement  
Date: Tuesday, May 22, 2018 8:11:52 PM  
Attachments: [Hecate Greene PSS Notice.pdf](#)

---

Hello Hecate Greene Stakeholders,

Please find attached Hecate Greene's "Notice of Submission of Preliminary Scoping Statement".

Best regards,  
The Hecate Greene Team

Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC, 50-Megawatt Solar Photovoltaic Generation Project, Greene County, New York

## **NOTICE OF SUBMISSION OF PRELIMINARY SCOPING STATEMENT**

Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC ("Hecate Greene" or "Co-Applicants") are seeking authority from the New York State Board on Electric Generation Siting and the Environment (the "Siting Board") to construct a 50-megawatt ("MW") solar photovoltaic electric generating facility (the "Project") in the Town and Village of Coxsackie, Greene County, New York, pursuant to Article 10 of the New York State Public Service Law. Hecate Greene hereby provides notice that it will file a Preliminary Scoping Statement ("PSS") with the Siting Board on or about May 29, 2018. The PSS summarizes the proposed scope of studies that Hecate Greene will undertake, the results of which will form the basis of its Application to the Siting Board. Hecate Greene also seeks input from the public, interested agencies, and local municipalities on the scope and methodology of proposed studies to be conducted.

The Project components will include solar photovoltaic panel arrays connected by underground, and possibly overhead, collection lines that will generate electricity to be delivered into Central Hudson's transmission system via interconnections with the existing Coxsackie-North Catskill 69 kilovolt transmission line. The Project is proposed to be constructed on leased and/or purchased rural private land that is agricultural in nature.

The Project will safely generate enough clean, renewable electricity to power approximately 13,000 households. The Project will also avoid emissions and other impacts associated with traditional fossil-fueled generating facilities, and further the State Energy Plan's goal of generating 50% of all electricity consumed in the State with renewable resources and reducing greenhouse gas emissions by 40% by the year 2030.

Based upon reasonably available information, the PSS will describe, amongst other topics, the environmental setting of the Project area, the potential environmental and health impacts associated with construction and operation of the Project, proposed benefits of the Project, proposed studies, security, decommissioning, and proposed measures to mitigate or minimize any potentially significant environmental impacts.

Hecate Greene anticipates that the Project will not have negative impacts on health, air, or water resources. Potential visual, wildlife, or agricultural impacts will be mitigated to the maximum extent practicable.

With the PSS, Hecate Greene will also submit \$17,500 in intervenor funding. Interested parties may apply for intervenor funding to be used to pay for expenses such as administrative, attorney, and/or consultant fees. A guide to applying for intervenor funding can be found on the New York State Department of Public Service's ("DPS") website by using the following direct link: [goo.gl/avcprS](http://goo.gl/avcprS).

Within 21 days after the PSS is filed, any person, agency, or municipality may submit comments on the PSS by serving such comments on the Co-Applicants, at the address provided below, and filing a copy with the Secretary. Comments must reference Case 17-F-0619 and may be submitted to Hon. Kathleen H. Burgess, Secretary to the Siting Board, New York State Public Service Commission, Agency Building 3, Albany, NY 12223-1350 or electronically to [secretary@dps.ny.gov](mailto:secretary@dps.ny.gov). Any interested person may also file a request with the Secretary to receive copies of all notices concerning the Project, including notices regarding any proposed pre-application stipulations. Documents filed in this proceeding may also be viewed at the DPS website located at [www.dps.ny.gov](http://www.dps.ny.gov) by clicking "Search" on the homepage and then entering Case 17-F-0619 in "Search by Case Number."

Within 21 days after the closing of this comment period, the Co-Applicants will prepare a summary of the material comments and their replies thereto, and file and serve the summary in the same manner as the Co-Applicants file and serve the PSS.

Not less than 22 days after the PSS is filed, an Administrative Law Judge (“ALJ”) will hold a conference to, among other things, initiate the stipulation process in which Hecate Greene and other parties attempt to negotiate and agree on the studies and other issues to be addressed in the Article 10 Application. The ALJ will also issue a notice of availability of pre-application intervenor funds, which will provide a schedule and instructions on how interested parties may apply for such funds. Requests for intervenor funds are due within 30 days of issuance of the notice. A pre-application meeting will also be convened to consider funding requests no less than 45 but no more than 60 days after the filing of the PSS.

Hecate Greene will use the results of the studies it conducts to prepare the Application, which will be filed not less than 90 days after the PSS is filed. The Application will include, amongst other topics, a description of the Project, an evaluation of the environmental and health impacts and avoidance/mitigation measures, a summary of public involvement activities, a statement of why any local laws or ordinances should not be applied, electrical interconnection and system reliability studies, security and emergency plans, a statement demonstrating compliance with the most recent State Energy Plan, and other relevant information.

The Siting Board will then determine whether the Application is compliant with filing requirements. Once it is deemed compliant, the ALJ will schedule a public hearing and issue a notice that additional intervenor funds, in the amount of \$50,000, will be available for parties participating in the Application phase. The ALJ will also schedule a pre-hearing conference to identify intervenors, award intervenor funds, identify issues for the hearing, and establish a case schedule. After the hearings, intervenors may submit briefs to the ALJ who will then issue a recommended decision, upon which the Siting Board will render its decision on whether to certify the Project. State law requires that the Siting Board must render a decision on the Application within 12 months of its determination that the Application is compliant with filing requirements.

Additional information on how to participate in Siting Board matters may be obtained by contacting Hecate Greene’s project representative or the Siting Board Public Information Coordinator:

**Hecate Greene Representative**

Gabriel Wapner  
Hecate Energy, LLC  
621 W Randolph St.  
Chicago, IL 60661  
833-529-6597  
contact@greencountysolar.info

**Siting Board Public Information Coordinator**

James Denn  
NYS Department of Public Service  
3 Empire State Plaza  
Albany, NY 12223  
518-474-7080  
james.denn@dps.ny.gov

To find more information, please go to the Siting Board’s website ([www.dps.ny.gov/SitingBoard](http://www.dps.ny.gov/SitingBoard)) or the Project website (<https://www.greencountysolar.info/>), or call the Project’s toll-free number: 833-529-6597.

Hard copies of the PSS will also be available at the following local document repositories:

- Hermance Memorial Library, 1 Ely St., Coxsackie, NY 12051
- D.R. Evarts Library, 80 2nd St., Athens, NY 12015
- Village of Coxsackie Village Hall, 119 Mansion St., Coxsackie, NY 12051
- Town of Coxsackie Town Hall, 16 Reed St., Coxsackie, New York 12051

# **Preliminary Scoping Statement**

*for the*

## **Greene County Solar Facility**

*proposed in*

## **Greene County, New York**

**Case Number 17-F-0619**

May 2018

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**PREPARED FOR**



**Hecate Energy Greene 1 LLC,  
Hecate Energy Greene 2 LLC, and  
Hecate Energy Greene County 3 LLC**  
621 W. Randolph Street  
Chicago, Illinois 60661

---

**PREPARED BY**



**Tetra Tech, Inc.**  
1200 Scottsville Road, Bldg C, Suite 181  
Rochester, New York 14624

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## **LIST OF APPENDICES**

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Appendix A – Meeting Log (as of April 10, 2018)

Appendix B – Updated Stakeholders List

## ACRONYMS/ABBREVIATIONS

Acronym/Abbreviation	Definition
%	percent
AC	alternating current
AADT	annual average daily traffic
ALIS	Accident Location Information System
amsl	above mean sea level
APE	Area of Potential Effect
ATV	all-terrain vehicle
BBA	Breeding Bird Atlas
BLM	United States Bureau of Land Management
BMP	Best Management Practices
CEII	Critical Energy Infrastructure Information
CES	Clean Energy Standards
CFR	Code of Federal Regulations
CGN	Columbia-Greene North
CO <sub>2</sub>	carbon dioxide
Co-Applicants	collective reference to Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC
CRIS	Cultural Resources Information System
CWA	Clean Water Act
CZMP	Coastal Zone Management Program
dBA	A-weighted decibels
DC	direct current
DPS	New York State Department of Public Service
dSLR	single lens reflex camera
ECL	Environmental Conservation Law
EIA	United States Energy Information Administration
EMF	electric and magnetic fields
ERP	Emergency Response Plan
ESA	Endangered Species Act
FAA	Federal Aviation Administration

Acronym/Abbreviation	Definition
Facility	Greene County Solar Facility, a 50-megawatt photovoltaic solar energy generation facility proposed in the Town and Village of Coxsackie, Greene County, New York
Facility Area	an approximately 933-acre area within which the Greene County Solar Facility is proposed
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
GIS	Geographic Information System
GPS	Global Positioning System
HDD	horizontal direct drilling
Hecate Greene	collective reference to Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC
Hecate Energy	Hecate Energy, LLC
Hz	hertz
IPaC	Information for Planning and Consultation
ISO	International Organization for Standardization
kHz	kilohertz
km	kilometer
kV	kilovolt
L <sub>90</sub>	time-averaged residual sound level
L <sub>eq</sub>	minimum measured equivalent sound level
LSZs	Landscape Similarity Zones
mCNR	modified Composite Noise Rating
MDS	map-documented structures
MVAR	mega-volt ampere reactive
MW	megawatt
MWh	megawatt-hour
NAIP	National Agriculture Imagery Program
NHPA	National Historic Preservation Act
NLCD	National Land Cover Database
NOI	Notice of Intent
NO <sub>x</sub>	nitrogen oxides
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places

Acronym/Abbreviation	Definition
NWI	National Wetlands Inventory
NYAC	New York Archaeological Council
NYCRR	New York Codes, Rules, and Regulations
NYISO	New York Independent System Operator
NYNHP	New York Natural Heritage Program
NYS	New York State
NYSDAM	New York State Department of Agriculture and Markets
NYSDEC	New York State Department of Environmental Conservation
NYSDHP	New York State Division for Historic Preservation
NYSDOS	New York State Department of State
NYSDOT	New York State Department of Transportation
NYSERDA	New York State Energy Research and Development Authority
NYSPSC	New York State Public Service Commission
NYSM	New York State Museum
O&M	operations and maintenance
OPRHP	Office of Parks, Recreation and Historic Preservation
OSHA	Occupational Safety and Health Administration
PE	Professional Engineer
PILOT	payment in lieu of taxes
PIP	Public Involvement Program
POI	point of interconnection with utility electric grid
PRISM	Partnerships for Regional Invasive Species Management
PSL	Public Service Law
PSS	Preliminary Scoping Statement
PV	photovoltaic
QA/QC	Quality Assurance and Control
ROW	right-of-way
SASS	Scenic Areas of Statewide Significance
SEQR	State Environmental Quality Review
SHPO	State Historic Preservation Office
SIS	Electric System Impact Study

Acronym/Abbreviation	Definition
Siting Board	New York State Board on Electric Generation Siting and the Environment
SO <sub>2</sub>	sulfur dioxide
SPCC	Spill Prevention, Control and Countermeasure
SPDES	State Pollutant Discharge Elimination System
Study Area	2-mile radius from all Facility components
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers
USCB	United States Census Bureau
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USN	Unique Site Number
VIA	Visual Impact Assessment
VRM	Visual Resource Management System
WMA	Wildlife Management Area
WQC	Water Quality Certification



## **1.0 INTRODUCTION**

According to the rules of the New York State Board on Electric Generation Siting and the Environment (Siting Board) (16 New York Codes, Rules, and Regulations [NYCRR] Part 1000), applicants proposing to submit an application to construct a major electric generating facility under Article 10 of the Public Service Law (PSL) must file a Preliminary Scoping Statement (PSS) at least 90 days prior to filing an application (16 NYCRR § 1000.5). The PSS shall contain the following, which are provided in this document as indicated:

- (1) as much information as is reasonably available concerning the proposed facility, generally in the form (though in less detail) that it will appear in the application (see Sections 1 and 2);
- (2) a preliminary scope of an environmental impact analysis containing a brief discussion, on the basis of reasonably available information, of the following items:
  - (i) a brief description of the proposed facility and its environmental setting (see Sections 2 and 3);
  - (ii) potentially significant adverse environmental and health impacts resulting from the construction and operation of the proposed facility including an identification of particular aspects of the environmental setting that may be affected, any material impacts or benefits identified in consultations by the public, affected agencies, and other stakeholders, and a responsive analysis by the Applicant as to those issues identified in consultations (see Section 4.0);
  - (iii) the extent and quality of information needed for the application to adequately address and evaluate each potentially significant adverse environmental and health impact, including existing and new information where required, and the methodologies and procedures for obtaining the new information (see Section 4.0);
  - (iv) for proposed wind-powered facilities, proposed or on-going studies during pre-construction activities and a proposed period of post-construction operations monitoring for potential impacts to avian and bat species (not applicable);
  - (v) a description of how the applicant proposes to avoid adverse impacts to the environment and health (see Section 4.0);

(vi) for those adverse environmental and health impacts that cannot be reasonably avoided, an identification of measures proposed to mitigate such impacts (see Section 4.0);

(vii) where it is proposed to use petroleum or other back-up fuel for generating electricity, a discussion and/or study of the sufficiency of the proposed on-site fuel storage capacity and supply (not applicable);

(viii) a description and evaluation of reasonable and available alternative locations for the proposed facility, including a description of the comparative advantages and disadvantages of the proposed and alternative locations, except that a private facility applicant may limit its description and evaluation of alternative locations to parcels owned by, or under option to, such private facility applicant or its affiliates (see Section 4.9);

(ix) If the proposed facility affects any land or water use or natural resource of the coastal area and federal authorization or funding is necessary, a preliminary analysis of the consistency of the proposed facility with the enforceable policies of the New York State coastal management program or, where the action is in an approved local waterfront revitalization program area, with the local program (not applicable);

(x) a statement of the reasons why the primary proposed location and source, taking into account the potentially significant and adverse environmental impacts, is best suited, among the alternatives, including a "no action" alternative, to promote public health and welfare, including the recreational and other concurrent uses that the site may serve, except that a private facility applicant may limit its description and evaluation of alternative locations to parcels owned by, or under option to, such private facility applicant or its affiliates and its description and evaluation of alternative sources to those that are reasonable alternatives to the proposed facility that are feasible considering the objectives and capabilities of the sponsor (see Section 4.9);

(xi) a preliminary identification of the demographic, economic and physical attributes of the community in which the facility is proposed to be located and in which any alternative location identified is located, and a preliminary environmental justice evaluation of significant and adverse disproportionate environmental

impacts of the proposed facility and any alternative facility identified that would result from construction and operation considering, among other things, the cumulative impact of existing sources of emissions of air pollutants and the projected emission of air pollutants from the proposed or alternative facility in a manner that is in accordance with any requirements for the contents of an Article 10 preliminary scoping statement contained in 6 NYCRR Part 487 promulgated published by the New York State Department of Environmental Conservation (NYSDEC) for the analysis of environmental justice issues (see Sections 3.11 and 4.28); and

(xii) an identification of any other material issues raised by the public and affected agencies during any consultation and the response of the applicant to those issues (see Section 4.2).

(3) an identification of all other state and federal permits, certifications, or other authorizations needed for construction, operation or maintenance of the proposed facility (see Sections 4.32 and 4.33);

(4) a list and description of all state laws and regulations issued thereunder applicable to the construction, operation or maintenance of the proposed facility and a preliminary statement demonstrating an ability to comply (see Section 4.32);

(5) a list and description of all local laws, and regulations issued thereunder, applicable to the construction, operation, or maintenance of the proposed facility and a statement either providing a preliminary assessment of an ability to comply or indicating specific provisions that the applicant will be requesting the New York State Board on Electric Generation Siting and the Environment (the Siting Board) to elect not to apply, in whole or in part, and a preliminary explanation as to why the Siting Board should elect not to apply the specific provisions as unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality (see Section 4.31);

(6) a description of the applicant, its formation, status, structure, holdings, affiliate relationships, powers (including whether it has or will seek to obtain the power of eminent domain, either directly or indirectly), franchises and consents (see Section 2.1);

(7) a description of the applicant's property rights and interests or those it proposes to acquire to all lands of the proposed facility and any private or public lands or private or

public streets, highways or rights-of-way crossed by any interconnections necessary to serve the facility such as, but not limited to, electric lines, gas lines, water supply lines, waste water or other sewage treatment facilities, communications and relay facilities, access roads, rail facilities, or steam lines (see Section 2.1); and

(8) any other information that the Applicant may deem to be relevant.

Where applicable, sections throughout the Article 10 application will include a table summarizing issues and concerns raised by stakeholders throughout the process to date, referenced as “Other Material Issues Raised by the Public and Affected Agencies.”

Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC, (herein collectively referred to as Hecate Greene or the Co-Applicants), each a subsidiary of Hecate Energy, LLC (Hecate Energy), are the Co-Applicants in this Article 10 application. Hecate Greene is proposing to construct the Greene County Solar Facility, a 50-megawatt (MW) photovoltaic (PV) solar energy generation facility in the Town and Village of Coxsackie, Greene County, New York (the Facility) (Figure 1 – Facility Location).

The Facility is expected to have three off-take agreements, two for approximately 20 MW and one for approximately 10 MW, with potential purchasers of its energy and/or renewable energy credits, as well as potentially two financing structures. Therefore, Hecate Greene believes at this time it would be most efficient to propose in the Article 10 application that three sets of certificate conditions be developed as part of the requested Article 10 certification: one set applicable to each applicant, although the certificate conditions may be identical.

Since all the features of the Facility will be located in the same general area, share certain infrastructure, and be assessed for environmental impacts and benefits as a whole, it should, therefore, be considered under a single Article 10 proceeding. Hecate Greene will work with the state agency staffs and other appropriate stakeholders to ensure the proposed Facility is appropriately assessed as a whole, while recognizing the need for separate certificate conditions.

## **2.0 PROJECT DESCRIPTION**

### **2.1 DESCRIPTION OF THE APPLICANT AND THEIR PROPERTY RIGHTS AND INTERESTS**

Hecate Greene is a wholly owned subsidiary of Hecate Energy. Headquartered in Chicago, Illinois, with offices in California, Connecticut, Ohio, and Tennessee, Hecate Energy is a developer of solar power plants, wind power plants, natural gas-fired power plants, and energy storage solutions. Founded in 2012 by a team of industry veterans who have worked together for more than 20 years, Hecate Energy's team members have developed thousands of MWs of solar, wind, natural gas and energy storage projects, including several projects in New York and the northeastern United States.

Hecate Energy has over 6,000 MW of power plants under development, including natural gas projects in Oregon and Pennsylvania, solar power plants in California, Florida, Georgia, Maryland, New York, Ohio, Rhode Island, Texas, and Virginia, and energy storage projects in Ontario and California. Hecate Energy has developed power projects in California, Florida, Georgia, Maryland, Massachusetts, Rhode Island, Texas, and Virginia that are currently operating. In addition, Hecate Energy has an international presence, including projects in Tanzania and Jordan.

In the past five years, Hecate Energy has been awarded over 400 MW of solar Power Purchase Agreements by several investor-owned and municipal utilities including Eversource, Georgia Power, Jacksonville Electric Authority, the Los Angeles Department of Water & Power, National Grid, Old Dominion Electric Cooperative, and United Illuminating. Cities including Palo Alto, California and Houston, Texas have also selected Hecate Energy as their solar energy provider. In addition, organizations such as Johns Hopkins University, the United States Postal Service, and the Port of Los Angeles have selected Hecate Energy to provide their solar power solutions.

Property rights and interests are identified in Section 4.13, which include a description of rights and interests acquired or proposed to be acquired, ownership in fee, leased private land, and proposed rights-of-way (ROWs).

### **2.2 PROPOSED FACILITY**

The lands that are being evaluated for potential solar energy development are located in the Town and Village of Coxsackie, Greene County, New York. The Facility, proposed on land between Routes 9W and 385 totaling approximately 933 acres (the Facility Area) (Figure 2 – Facility Area), will consist of solar arrays, and each parcel will share some Facility features including site roads

and the electrical interconnection to the utility grid. The actual Facility footprint will occupy less than the total 933-acre Facility Area (Figure 3 - Layout). The Co-Applicants will lease or purchase land from private landowners. Additional land agreements will not be needed for interconnection because interconnection facilities will be built on the lands that have been secured.

A critical factor for siting a solar energy facility is finding a transmission line with enough existing capacity to export the power from the facility to the utility grid system without prohibitive cost or unacceptable environmental impacts. The points of interconnection (POIs) with the electric grid are planned to be on existing 69-kilovolt (kV) transmission lines that lie near the Facility Area. The transmission lines, owned and operated by Central Hudson, generally form the western boundary of the southern portion of the Facility Area. Two proposed new substations within the Facility Area will interconnect the Facility with the existing 69-kV transmission lines (Figure 2). A third POI is proposed via a short 13-kV overhead transmission line into the existing Cocksackie Substation. Existing aboveground transmission lines traverse the area in proximity to the proposed Facility Area in northwest-southeast and east-west orientations. Other important siting factors include the availability of open and appropriately oriented land, willing land lessors or sellers, and minimization of impacts on sensitive wildlife habitat. The Co-Applicants have conducted preliminary environmental screenings that are discussed in Section 3.

The Facility will use the same type of PV panels installed on over one million homes in the United States. Solar equipment is a proven, safe technology in applications such as ground-mounted installations in fields, fixed rooftop installations on homes, schools, and businesses, as well as canopy installations in carport areas. The PV panels for the proposed Facility will be ground-mounted on a low-profile racking system that will have a small post footprint, typically consisting of small I-beam posts driven into the ground. The Facility will consist of the following components:

- A solar field of PV panels producing direct current (DC) electricity mounted on fixed-tilt racking structures or single-axis tracking structures that will follow the sun throughout the day;
- Inverters placed throughout the Facility (internal to the panel arrays) to convert DC electricity to alternating current (AC) electricity;
- A medium voltage cable collection system that will aggregate the AC output from the inverters;
- A substation where the Facility's electrical output voltage will be combined and its voltage increased to the transmission line voltage of 69 kV via step-up transformers;

- A generation tie line (gen-tie) that will connect the Facility to the designated point of interconnection with the utility electric grid;
- Internal infrastructure including permanent access roads and fencing,
  - Access roads will be approximately 15 to 20 feet wide;
  - Fencing will be approximately 6 feet and 8 feet high; and
- Temporary on-site laydown areas for equipment staging during construction.

Public roads will be used for construction access and general access during Facility operation. It is not anticipated that any improvements to public road intersections or the addition of turnarounds will be required.

The Co-Applicants began developing the proposed 50 MW AC Facility with a vision of bringing large-scale solar power to New York State. The proposed Facility is consistent with the New York State Public Service Commission's (NYSPSC's) proceeding implementing a Clean Energy Standard (CES), which supports the development of clean energy and renewable resources in New York State. In September 2016, Hecate Energy filed two applications with the New York Independent System Operator (NYISO), the operator of New York's transmission system, for interconnection of 20 MW and 10 MW of the Facility's 50 MW into the electrical grid. A third application was filed with NYISO in January 2017 for interconnection of the Facility's remaining 20 MW. All three applications are now going through System Impact Studies. A preliminary Facility schedule was submitted in Exhibit C to the Co-Applicants' Public Involvement Program (PIP) Plan.

The Facility will have a nameplate capacity of approximately 50 MW (AC), and is expected to generate approximately 93,000 megawatt-hours (MWh) of energy annually. This will be enough electricity to meet the average annual consumption of over 13,000 New York households, based on average annual electric consumption of 7.2 MWh for New York State (United States Energy Information Administrative [EIA] 2015).

The proposed Facility will have positive impacts on socioeconomics in the area through local employment and service opportunities, specifically by generating temporary construction employment, a significant amount of which is expected to be drawn from Greene County and the regional labor market. Hecate Energy's contracting experience has led to a preference for local hiring, and it anticipates holding a local job fair as the Facility enters the construction phase to support that objective. Local construction employment will primarily benefit those in the construction trades, including equipment operators, truck drivers, laborers, and electricians. It is anticipated that over 200 construction workers will be employed during peak construction. Once in operation, the Facility will require regular maintenance and inspections, employing several

workers plus additional support from local service providers to maintain the Facility Area and associated systems. Facility operation and maintenance activities will generate several hundred thousand dollars of annual fees, some of which will be local part-time employment and contracting service opportunities for electricians, operations managers, laborers, fencing contractors, and landscaping maintenance crews. The Facility will also result in increased revenues to Greene County and the Town of Coxsackie (payment in lieu of taxes [PILOT] negotiations will begin shortly), purchases of local supplies and goods, and lease revenues to participating landowners.

Through deliberate site selection followed by careful planning and design, and due to the environmentally benign nature of the technology, the Facility will have minimal impacts on the surrounding community. Solar energy facilities have no direct air or wastewater emissions, are very quiet, and generate no vibration. The PV panels proposed to be used for the Facility have a low height profile. Setbacks, fencing, and landscape buffering allow solar energy projects to have minimal, ground-level visual impacts on the community and natural setting of the area.



### **3.0 ENVIRONMENTAL SETTING**

The Siting Board's regulations define the Study Area to be used for analysis of major electric generating facilities as "an area generally related to the nature of the technology and the setting of the proposed site" (16 NYCRR § 1000.2(ar)). Unlike a wind power project that contains wind turbines that may be 500 feet or more in height and which are visible from a relatively large surrounding area (e.g., 5 miles or more), a solar energy facility lacks similar prominently visible components. The tallest components of the generating portion of the proposed Facility will be the PV panels and inverter equipment, which have a relatively low profile, and are not expected to be more than 10 feet above grade. The topography of the area provides some vantage points with unobstructed views of the Facility. Specifically, views of the Facility may be possible within the immediate vicinity of the Facility Area, as well as potentially from Route 385, a Scenic Area of Statewide Significance (SASS). However, the nature of the Facility Area and proposed technology is such that visibility is anticipated to be relatively limited to those areas located adjacent or very close to the Facility. Each section of the Facility arrays and equipment will be surrounded by fencing.

It is important to note that, with the exception of some on-site roads and relatively small areas of inverters and substation equipment, most of the Facility Area will not create impervious surfaces, but rather will allow rainwater to fall to the ground through gaps between each row of panels. In addition, the Facility will not generate air emissions of any type and will be very quiet.

Therefore, due to the nature of the technology and the setting specific to this proposed Facility, the Co-Applicants propose to establish a 2-mile radius Study Area from (and including) all Facility components, which includes the host Village and Town of Coxsackie. Figure 4 depicts the 2-mile radius Study Area extending from the Facility Area. Municipalities within this Study Area include the Town of Athens and surrounding unincorporated area, which lie within Greene County, as well as the Columbia County towns of Stockport and Stuyvesant. The environmental setting of the Facility Area has been investigated for this PSS, and where appropriate, the environmental setting of the overall Study Area has also been investigated.

### **3.1 LAND USE**

The Facility will be located in the Town and Village of Coxsackie, which is situated west of the Hudson River, approximately 4 miles northwest of the City of Hudson. The Town and Village of Coxsackie and the surrounding area include a mixture of agricultural, rural residential, and institutional land use, with scattered industrial development and sparsely forested areas. The

region offers numerous opportunities for recreational activities including, for example, hunting, trapping, fishing, wildlife watching, hiking, picnicking, boating, swimming, and other outdoor activities at neighborhood parks and the Vosburg Swamp Wildlife Management Area.

The Facility Area is located in an upland area on the western bank of the Hudson River. The Facility is sited in a rural residential and agricultural mixed area characterized by rolling topography, with gently sloped areas transected by small streams and/or wetlands in the low-lying areas between elevated landforms. The River Subdivision Railroad Line owned by CSX runs adjacent to the Facility Area. The Coxsackie Correctional Facility, a maximum-security New York State Prison, and the Greene Correctional Facility, a medium-security New York State Prison, are situated between non-contiguous portions of the Facility Area. Several industrial uses are also situated between the northern and southern areas of the Facility. The area around the Facility is predominantly in agricultural production, with the Hudson River to the east and residential neighborhoods to the north and south. See Section 4.4 for more details regarding land use.

### **3.2 CULTURAL RESOURCES**

Cultural resources associated with the Facility and surrounding area are related to early Euro-American settlement, land clearing, and agricultural activities such as logging, plowing, disking, and planting. No historic structures or properties listed in or eligible for listing in the State/NRHP are located within the Facility Area; however, previous studies identified 26 historic resources within the Facility Area. The Facility Area is considered archaeologically sensitive for both historic and precontact archaeological sites. See Section 4.20 for more details regarding cultural resources.

### **3.3 GEOLOGY, SEISMOLOGY, AND SOILS**

The Facility will be located entirely within Greene County, which is topographically diverse, with the Catskill Mountains to the west and the Hudson Valley to the east, characterized by very low relief, rocky ridges, and dissected drainages caused by glacial deposits. Greene County is in two physiographic provinces – the Catskill section of the Appalachian Plateau and the Hudson Valley section of the Ridge and Valley Province. The average elevation of the terrace along the Hudson River is approximately 100 feet above mean sea level (amsl) in the south to approximately 150 feet amsl in the north (United States Department of Agriculture [USDA] 1993). The Facility Area is relatively flat, with gentle slopes toward the on-site streams. Elevations within the Facility Area range between 104 feet and 163 feet amsl.

The bedrock geology of the Facility Area is part of the Normanskill Formation, which is heavily folded and faulted and forms bedrock ridges. Bedrock may be exposed within the Facility Area along these ridges and consists of Ordovician slate, shale, greywacke, and chert. In lower areas, bedrock may be greater than 5 feet below ground surface (USDA 1993).

The Facility Area is dominated by Kingsbury and Rhinebeck soils, which are formed in lacustrine or marine sediments, and found on glacial lake plains. These soils are nearly level to gently sloping, somewhat poorly drained, and very deep. Fourteen soils from seven different soil series are present within the Facility Area, representing a variety of landforms, textures, and drainages (USDA 1993). See Section 4.21 for more details regarding geology, seismology, and soils.

### **3.4 WILDLIFE**

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The Facility Area is dominated by agricultural fields with intermittent wooded hedgerows. The agricultural portions of the Facility Area (which is predominantly where the Facility will be sited) provide habitat for wildlife species associated with open fields and grasslands. The undeveloped wooded areas, which include stream and wetland features, provide habitats that may contribute to supporting diverse wildlife communities in the area. Portions of the Study Area are also dominated by commercial and institutional development, with scattered industrial development and sparsely forested areas.

The United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool was used to complete a search for federally listed threatened and endangered species potentially located in the vicinity of the Facility Area. The IPaC tool produces general location reports for the potential presence of threatened and endangered birds, flowering plants, insects, mammals, and reptiles. The IPaC Report did not identify any critical habitats, but identifies the Indiana bat (*Myotis sodalis*) and the northern long-eared bat (*Myotis septentrionalis*) as potentially present within the Facility Area (USFWS 2018). These species are common within this part of New York, and winter in hibernacula such as caves and mines, and have summer habitat that utilizes wooded areas throughout the state. The wooded riparian areas found in the Facility Area could potentially provide favorable summer roosting habitat. Potential impacts to these species will be avoided, minimized or mitigated to the maximum extent practicable, as discussed preliminarily below and in greater detail in the Application.

The Facility Area was also reviewed for state-mapped rare species and significant natural communities through the New York Natural Heritage Program (NYNHP) database. Mapped rare species habitat potentially occurs to the northwest of the Facility Area. Several plants were listed,

including Delmarva beggar-ticks (*Bidens bidentoides*) and Heart-leaved plantain (*Plantago cordata*). A Raptor Winter Concentration Area also exists within the Facility Area, and birds have been observed in several parts of the Facility Area.

The NYNHP database also indicated that the short-eared owl (*Asio flammeus*) and the northern harrier (*Circus cyaneus*) have been documented within the Facility Area. A portion of the Facility Area is also located in a Grassland Habitat Focus Area as identified in the Greene County Grassland Habitat Management Plan (Strong, et. al. 2014). These areas of open habitat provide breeding and wintering areas needed to maintain the state-endangered short-eared Owl (*Asio flammeus*) and the state threatened northern harrier (*Circus cyaneus*). Short-eared owl and Northern harrier may be present within the Facility Area due to the presence of open agricultural fields, which may contain wintering and foraging habitat. Potential impacts to grassland birds will be avoided, minimized or mitigated to the maximum extent practicable, and will be preliminarily discussed below, and in greater detail in the Application. Potential changes in bird community composition with some species, particularly raptors, possibly avoiding of areas within, or close to, Facility components, will be discussed in the Application (DeVault et.al. 2014).

The Facility Area is located in the Atlantic Flyway migratory bird route and the habitats within this route provide stop-over points for migratory species as well as breeding habitat. The IPaC Report indicated that 14 migratory bird species may be found within Greene County (USFWS 2018). As most of the Facility Area consists of open, agricultural fields, the use of the Facility Area by large mammals and big game species is generally precluded, with the exception of white-tailed deer (*Odocoileus virginianus*), which is common in the surrounding area.

Open grasslands, which occur most often in areas that have been cleared for agriculture, provide habitat to numerous grassland-breeding bird species including the state-endangered short-eared owl (*Asio flammeus*), the state-threatened northern harrier (*Circus cyaneus*), the upland sandpiper (*Bartramia longicauda*), the sedge wren (*Cistothorus platensis*), and the henslow's sparrow (*Ammodramus henslowii*) (NYSDEC 2018a).

Table 3.4-1 lists state and federal listed species that may be present within the Facility Area based on review of available databases and agency consultations.

**Table 3.4-1 State and Federal Listed Species Documented in the Vicinity of the Facility Area**

Common Name	Scientific Name	Status
Indiana bat	<i>Myotis sodalis</i>	Federal and State Endangered
Northern Long-eared bat	<i>Myotis septentrionalis</i>	Federal Threatened
Short-eared owl	<i>Asio flammeus</i>	State Endangered
Northern harrier	<i>Circus cyaneus</i>	State Threatened

See Section 4.22 for more details regarding terrestrial ecology.

### 3.5 WETLANDS

Over 700 acres of NYSDEC-mapped wetlands are located in the Town of Coxsackie, with approximately 100 acres located in the Village of Coxsackie primarily located along the various streams that traverse the Town, including the Hudson River, Coxsackie Creek, and Murderers Creek, which lie near the Facility Area.

As shown on Figure 5, there are 16 National Wetland Inventory (NWI) wetland areas located within 500 feet of the Facility Area. There are also multiple portions of four NYSDEC wetlands located within 500 feet of the Facility Area. The Facility has been designed to avoid, minimize, and then mitigate potential impacts to wetlands to the maximum extent practicable, as preliminarily discussed below and in greater detail in the Application. See Section 4.22 for more details regarding wetlands.

### 3.6 AGRICULTURAL RESOURCES

The most important agricultural products in Greene County are dairy products; poultry and poultry products; nursery and greenhouse crops; cattle and calves; and vegetables, sweet corn, fruit, and melons (Greene 2002).

Most of the southern parcels that comprise the Facility Area are within a Greene County Agricultural District. Some portions of the Facility Area are in active agricultural production, and farmland within the Facility Area consists of a combination of cultivated hay and pasture fields. As discussed further herein, Hecate Greene is exploring ways to harmonize the Facility with the agricultural nature of the Facility Area. See Section 4.4 for more details regarding agricultural resources.

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### **3.7 NOISE AND VIBRATION**

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As noted above, the Facility will be very quiet. The Facility Area and immediate vicinity is rural and can be characterized as consisting of institutional, rural residential, and agricultural uses, with scattered industrial development. Residential neighborhoods are located to the north and south of the Facility Area. The closest sensitive receptors are located adjacent to the Facility Area, on Kings Road, John Street, and Sleepy Hollow Road. There are also several residences along County Route 57, between two portions of the Facility. See Section 4.19 for more details regarding noise and vibration.

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### **3.8 WATER RESOURCES AND AQUATIC ECOLOGY**

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No known sole-source aquifers occur within the Facility Area or its vicinity (United States Environmental Protection Agency [USEPA] 2017). Additionally, the Facility Area is not located within a NYSDEC principal aquifer (NYSDEC 2018b).

Seven surface water streams exist on the Facility Area, with various associated branches and unnamed tributaries. Two unnamed tributaries to Cocksackie Creek cross the northern portion of the Facility Area, flowing northwest to their confluence with Cocksackie Creek. Cocksackie Creek continues to flow north-northeast to its confluence with the Hudson River. An unnamed tributary to Murderers Creek and Murderers Creek itself are mapped in the southwestern portion of the Facility Area. Murderers Creek flows through Sleepy Hollow Lake before discharging into the Hudson River. Three unnamed tributaries flow south across the southeastern portion of the Facility Area and discharge into Sleepy Hollow Lake. This lake is the source of drinking water for the nearby Sleepy Hollow Lake housing association. The Facility's proposed vegetative cover will provide improved stormwater runoff quality within the Sleepy Hollow Lake watershed.

Several of the waterbodies extending through the Facility Area are mapped by the Federal Emergency Management Agency (FEMA) as having 100-year and 500-year floodplains.

The Facility will not have any significant impacts on these water resources. See Section 4.23 for more details regarding water resources and aquatic ecology.

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### **3.9 VISUAL**

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The Facility Area is located approximately 0.6 miles west of the Hudson River. There is a high ridge to the east of the Facility Area, between the Facility Area and the river with peak elevations of approximately 200 feet amsl. There is also high terrain, Flint Mine Hill, located west of the

Facility Area, and Potic Mountain lies farther to the west, with elevations between approximately 300 feet and 680 feet amsl.

Potential sensitive receptors within the Facility Area include proximate National and State Register of Historic Place sites, state and local parks, wildlife preserves, SASS, lakes and rivers, and academic institutions. The Hudson River is located approximately 0.5 miles east of the Facility Area, with intervening higher elevation topography. The Coxsackie-Athens High School is located approximately 0.5 miles east and 0.6 miles north of the Facility Area, off Washington Avenue. Wooded areas and existing electrical equipment (Coxsackie Substation) provide screening between the school and the Facility Area. As stated in Section 3.7, the closest sensitive receptors are residences located on Kings Road, Howard Drive, John Street, and Sleepy Hollow Road. Scenic roadways traverse the area, with portions having potential views of the proposed Facility. Where possible, on-site vegetation will be untouched to provide natural screening. See Section 4.24 for more details regarding visual characteristics.

### **3.10 TRANSPORTATION**

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The Facility Area is located between County Route 385 to the east and US Route 9W to the west. Portions of the Facility Area are bounded by County Route 9 and County Route 57. Local roads in the vicinity of the Facility Area include Adams Road, Johnny Cake Lane, and Bailey Street, located to the east, and Flats Road, Flint Mine Road, and Kings Road, located to the west. A portion of the Facility Area is also located on Plank Road.

Facility equipment will likely be delivered from the nearby major highway, Interstate 87. State, County, and local roads likely to be used during construction include US Route 9W and County Routes 385, 9, and 57. Access to the Facility Area will be from multiple access points from County Routes 9 and 57 and Adams Road. See Section 4.25 for more details regarding transportation.

### **3.11 DEMOGRAPHIC AND ECONOMIC ATTRIBUTES OF THE COMMUNITY**

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The estimated 2010 population of the Town of Coxsackie was 8,918. The Village of Coxsackie, located within the Town of Coxsackie, had an estimated 2010 population of 2,813. The Towns of Athens and Stockport (located within the Study Area) contained approximately 4,089 and 2,815 people as of 2010, respectively (United States Census Bureau [USCB] 2010).

Estimated 2012-2016 total housing units in the Towns of Coxsackie, Athens, and Stockport were 2,997; 2,248; and 1,224, respectively. The Village of Coxsackie, located within the Town of

Coxsackie, had an estimated housing unit count of 1,346 (as of July 1, 2017). Estimated 2012-2016 median household income incomes in the Towns of Coxsackie, Athens, and Stockport were \$59,025; \$49,013; and \$52,137, respectively (USCB 2010). See Section 4.27 for more details regarding demographic and economic attributes of the community.



## **4.0 ENVIRONMENTAL ANALYSIS**

This section addresses applicable requirements of Section 1000.5(l)(2) of the Article 10 regulations that require a preliminary scope of an environmental impact analysis, on the basis of reasonably available information to be included in the Article 10 application. The PSS section numbers below have been formatted so as to correspond with the applicable Exhibit of the Article 10 regulations (e.g., Section 4.11 Preliminary Design Drawings corresponds with Section 1001.11 Exhibit 11: Preliminary Design Drawings of the Article 10 regulations).

### **4.1 GENERAL REQUIREMENTS - EXHIBIT 1**

Hecate Energy is a developer of solar power plants, wind-power plants, natural gas-fired power plants, and energy storage solutions. Headquartered in Chicago, Illinois, Hecate Energy's team members have developed thousands of MWs of solar, wind, and natural-gas-fired electric generating projects and energy storage solutions, including several projects in New York. For more information, visit <http://www.hecateenergy.com/>, or email [Solutions@HecateEnergy.com](mailto:Solutions@HecateEnergy.com).

The Facility website can be found at <https://www.greenecountysolar.info/>.

The Greene County Solar Project Team, Gabriel Wapner, Philip Mooney, and Jared Wren, may be reached at:

621 W Randolph St.

Chicago, IL 60661

Call toll-free: (833) 529-6597

Email: [contact@greenecountysolar.info](mailto:contact@greenecountysolar.info)

Hecate Greene is composed of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC, which are wholly owned subsidiaries of Hecate Energy, LLC. Their Principal Officer is Chris Bullinger.

The Application will provide agent contact information if the Co-Applicants desire service of documents or other correspondence on an agent.

The Facility will be co-owned by Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC.

Exhibit 1 of the Application will follow the requirements outlined in Subsections (a) through (f) of Section 1001.1 of the Article 10 regulations, as follows.

Exhibit 1 will contain:

- The following information on the Co-Applicants:
  - name, address, telephone number, facsimile number, and e-mail address of the Co-Applicants;
  - the address of a website established by the Co-Applicants to disseminate information to the public regarding the application;
  - the name, address, telephone number, facsimile number, and e-mail address of a person provided by the Co-Applicants that the public may contact for more information regarding the application;
  - Hecate Greene is composed of Hecate Energy Greene 1 LLC, Hecate Energy Greene 2 LLC, and Hecate Energy Greene County 3 LLC, which are wholly owned subsidiaries of Hecate Energy, LLC. Contact information for Hecate Energy, LLC's Principal Officer will be provided;
  - the name, business address, telephone number, facsimile number, and e-mail address of the Co-Applicants' agents, if desired for service purposes;
  - a brief explanation of the type of business entity that the Co-Applicants are, including its date and location of formation and the name and address of any parent entities; and
  - if the facility is to be owned by a corporation, a certified copy of the charter of such corporation; if the facility is not to be owned by a corporation, a copy of the certificate or other documents of formation.

## **4.2 OVERVIEW AND SUMMARY OF PUBLIC INVOLVEMENT – EXHIBIT 2**

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### **4.2.1 Overview**

A brief description of the proposed Facility, interconnections and related Facility components is provided in Section 2.2. Exhibit 2 will also contain a brief summary of the contents of the Application.

The Application will provide the information required under 16 NYCRR Part 1001 (Content of an Application), and its applicable sections, except the following that do not apply to the proposed Facility:

- Exhibit 6: Wind Power Facilities
- Exhibit 7: Natural Gas Power Facilities

- Exhibit 30: Nuclear Facilities
- Exhibit 36: Gas Interconnection
- Exhibit 37: Back-up Fuel
- Exhibit 38: Water Interconnection
- Exhibit 39: Wastewater Interconnection
- Exhibit 41: Applications to Modify or Build Adjacent

An overview of the required content and associated sections in this PSS is provided in Section 1. A brief analysis of the compliance of this PSS with the requirements of 1000.5(l) is provided in Section 5.

#### **4.2.2 Summary of Public Involvement Activities**

The draft of the PIP Plan was submitted to the New York State Department of Public Service (DPS) on October 13, 2017, comments on the PIP Plan were received from the DPS on November 13, 2017, and the Co-Applicants filed a revised PIP Plan on December 12, 2017. Before the proposed PIP Plan was filed, Hecate Greene representatives met with local officials to discuss the proposed Facility (see Appendix A for a meeting log).

Hecate Greene values its relationships with local stakeholders. Before undertaking necessary approval processes for development of any project, public outreach to engage interested parties is conducted. Through such public outreach activities, Hecate Greene seeks to introduce the Facility to the local community and other interested parties to understand and address stakeholder concerns, interests and recommendations.

The PIP Plan identified stakeholders and other interested parties in Exhibit A – Master List of Stakeholders. An updated stakeholder list, including host and adjacent landowners and parties identified through the Co-Applicants’ outreach efforts is provided as Appendix B. The Co-Applicants have initiated consultations, and the summary of the meetings/consultations held to date are in the Meeting Log, which is presented in Appendix A of this PSS. The Meeting Log will continue to be updated and filed quarterly on the DPS website throughout the PSS and Article 10 Application processes.

To date, the Co-Applicants have conducted one open-house style meeting in the Village of Coxsackie on February 21, 2018, at the Coxsackie Village Hall. Notice of the public meeting was mailed to approximately 6,300 stakeholders and residents and published in two local newspapers. A second open house is planned to be held in the Village of Coxsackie following the submission of the Application.

At the February open house, the Co-Applicants provided information about the Facility, including a series of informational poster boards and maps of the Facility. The Co-Applicants also presented an overview of the Article 10 process, and provided technical information related to construction, environmental studies and PV panel technology. Fact sheets regarding the proposed Facility and the Article 10 process were also provided to attendees.

In addition to the open house meetings, the Co-Applicants have a Facility-specific website (<https://www.greenecountysolar.info/>), an email address ([contact@greenecountysolar.info](mailto:contact@greenecountysolar.info)) and a toll-free number (833-529-6597) to provide venues to submit questions or comments. The Co-Applicants have provided paper copies of the revised PIP Plan and fact sheets presented at the open house to the following document repositories:

- Hermance Memorial Library, 1 Ely St., Coxsackie, NY 12051
- D.R. Evarts Library, 80 2nd St., Athens, NY 12015
- Village of Coxsackie Village Hall, 119 Mansion St., Coxsackie, NY 12051
- Town of Coxsackie Town Hall, 16 Reed St., Coxsackie, New York 12051

During the time before the submission of the Application, the Co-Applicants intend to continue stakeholder outreach. No less than three days prior to the submission of this PSS, the Co-Applicants conducted a mailing to the identified stakeholders to inform them about, and provide a summary of, the PSS, invite comments, and notify the stakeholders of the comment period. The Co-Applicants also provided notice in the local newspapers identified in the PIP Plan (in this case, the Daily Mail, Shop & Find, Times Union, and Hudson Valley 360). The notice described the Facility and invited comments on the PSS. The Co-Applicants will continue to attend municipal meetings and will hold an open house after submitting the Application. Finally, the Co-Applicants will also attempt to identify additional community events in which it will participate. Outreach efforts will be tracked in the meeting log and updated each quarter.

The Co-Applicants will continue to engage stakeholders following submission of the Article 10 Application. A summary of post-application PIP activities will be included in the Article 10 Application. It is anticipated that the Co-Applicants will continue to attend applicable Town of Coxsackie board meetings. In addition, the Co-Applicants will continue to meet with other local public stakeholders as appropriate.

The PIP activities discussed above will continue to be tracked and filed quarterly in the PIP Plan Meeting Log. The Co-Applicants will respond to applicable suggestions and comments through a response to the commenter and will summarize the response in the quarterly tracking report.

### **4.2.3 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Comments received are summarized by topic throughout this PSS in the applicable sections.

Other material issues raised regarding public involvement include:

- Functionality of the Facility's telephone number
- Design of the Facility's website
- Application process, timing, and opportunities for public assessment and comment
- Format of Open Houses/Meetings
- Completeness of the Master List of Stakeholders

The Co-Applicants have addressed the functionality of the Facility's telephone number and design of the Facility's website, and will continue to update the Master List of Stakeholders, as this process continues. To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.2.4 and throughout this PSS.

### **4.2.4 Proposed Studies**

Exhibit 2 of the Application will follow the requirements outlined in Subsections (a) through (e) of Section 1001.2 of the Article 10 regulations as follows.

Exhibit 2 will not exceed 15 pages of text and will contain:

- (a) A brief description of the major components of the proposed facility, interconnections and related facilities.
- (b) A brief summary of the contents of the Application.
- (c) A brief description of the PIP Plan conducted by the Co-Applicants prior to submission of the Application and an identification of significant issues raised by the public and affected agencies during such program and the response of the Co-Applicants to those issues including a summary of changes made to the proposal as a result of the PIP Plan.
- (d) A brief description of the PIP to be conducted by the Co-Applicants after submission of the Application.

- (e) A brief, clearly and concisely written overall analysis in plain language that assembles and presents relevant and material facts regarding the proposed project upon which the Co-Applicants proposes that the Siting Board make its decision. The analysis will be analytical and not encyclopedic and will specifically address each required finding, determination and consideration the Siting Board must make or consider in its decision pursuant to Section 168 of the PSL and explain why the Co-Applicants believe that the requested Certificate can be granted.

## **4.3 LOCATION OF FACILITIES - EXHIBIT 3**

### **4.3.1 Overview**

As noted in Section 2.2, the Facility will consist of the following components:

- A solar field of PV panels producing DC electricity mounted on fixed-tilt racking structures or single-axis tracking structures that will follow the sun throughout the day;
- Inverters placed throughout the Facility (internal to the panel arrays) to convert DC electricity to AC electricity;
- A medium voltage cable collection system that will aggregate the AC output from the inverters;
- An on-site collection substation for each point of interconnection within the southern portion of the Facility Area where the Facility's electrical output will be collected and a second adjacent on-site substation where the electrical output's voltage will be increased to the transmission line voltage of 69 kV via step-up transformers;
- Within the southern portion of the Facility Area, generation tie lines (gen-tie) that will connect the Facility to the designated point of interconnection with the existing Central Hudson electric transmission line that runs within the Facility Area;
- For the northern portion of the Facility Area, switching gear and a 13kV gen-tie will interconnect the Facility to the existing Cocksackie substation;
- Internal infrastructure including permanent access roads and fencing,
  - Access roads will be approximately 15 to 20 feet wide;
  - Fencing will be approximately 6 feet and 8 feet high; and
- Temporary laydown areas for equipment staging during construction.

The Application will include maps showing the location of the Facility components listed above to the extent that drawing scale allows discernment of proposed Facility component locations. These components will be mapped on the United States Geological Survey (USGS) topographic tile

cache base map service, displayed at a scale of 1:24,000 or greater. As currently designed, the Facility is not anticipated to include any permanent stormwater features of a significant nature for construction or operation.

The Co-Applicants propose to establish a 2-mile radius Study Area, which will be included on the appropriate maps/figures. However, the Facility has been and will be subject to a number of studies in support of the Application. The 2-mile Study Area will not be utilized for all studies/analyses; some studies will, as appropriate, utilize resource-specific study areas, which will be described briefly in this section of the Application, and are described in more detail in the respective sections of this PSS. For example, see Section 4.22 for a detailed description of the wetland resources study area.

Mapping/figures in the Application will depict the location of the proposed Facility with respect to village, town, county, and school district boundaries. The locational relationship of these boundaries to the Facility will also be described in the Application.

### **4.3.2 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding the location of the Facility include:

- Magnitude of the proposed Facility
- Proximity to residential neighborhood
- Potential cumulative impacts with the nearby Flint Mine Solar Project
- Alternative locations considered
- Consistency with local zoning
- Potential impacts on property values
- Potential views of the Facility from local roadways
- Compliance with the local ordinance regarding visual barrier

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.3.3 and throughout this PSS.

### **4.3.3 Proposed Studies**

Exhibit 3 of the Application will follow the requirements outlined in Subsections (a) through (c) of Section 1001.3 of the Article 10 regulations, as follows.

Exhibit 3 will contain maps, drawings and explanations showing the location of the Facility, interconnections, and all ancillary features not located on the Facility site such as roads, railroads,

switchyards, fuel or energy storage or regulation facilities, solid waste disposal areas, waste treatment and disposal facilities, and similar facilities, in relation to municipalities (county, city, town and village) and taxing jurisdictions associated with any part of the overall development proposal. Such maps, drawings and explanations will include:

- (a) New York State Department of Transportation (NYSDOT) or USGS maps (1:24,000 topographic edition), showing:
  - (1) the proposed location of the Facility and any reasonable and available alternative location sites required to be identified by Article 10 and its implementing regulations, including electric transmission line interconnections that are not subject to review under Article VII of the PSL, and including ancillary features located on the Facility site such as roads, railroads, switchyards, fuel or energy storage or regulation facilities, solid waste disposal areas, and similar facilities;
  - (2) the proposed location of any interconnections, including all offsite electric transmission lines, communications lines, stormwater drainage lines, and appurtenances thereto, to be installed in New York State connecting to and servicing the site of the Facility that are not subject to the NYSPSC's jurisdiction under PSL Article VII;
  - (3) the location of all proposed ancillary features not located on the Facility site such as roads, railroads, switchyards, fuel or energy storage or regulation facilities, solid waste disposal areas, and similar facilities, that are not subject to the Siting Board's jurisdiction under PSL Article 10;
  - (4) the proposed location of any electric transmission line and fuel gas transmission line interconnections that are subject to review under Article VII of the PSL and that are not subject to the Siting Board's jurisdiction under PSL Article 10; and
  - (5) a study area for the proposed Facility generally related to the nature of the technology and the setting of the proposed site. The Co-Applicants propose to establish a 2-mile radius Study Area, which will be included on the appropriate maps/figures. As explained above, however, the 2-mile Study Area will not be utilized for all studies/analyses; some studies will utilize resource-specific study areas as outlined within this PSS.
- (b) Maps clearly showing the location of the proposed Facility site, any reasonable and available alternative location sites required by Article 10 and its implementing regulations to be identified, the interconnections, and all ancillary features not located on the Facility



site in relation to municipal boundaries, taxing jurisdictions, designated neighborhoods or community districts, at a scale sufficient to determine and demonstrate relation of facilities to those geographic and political features.

- (c) Written descriptions explaining the relation of the location of the proposed Facility site, any reasonable and available alternative location sites required by Article 10 and its implementing regulations to be identified, the interconnections, and all ancillary features not located on the Facility site to the affected municipalities, taxing jurisdictions, designated neighborhoods or community districts.

## **4.4 LAND USE - EXHIBIT 4**

Land use and zoning are discussed in terms of regional and local land use patterns and zoning, agriculture, and future land use. The land use analysis for the Facility will include an assessment of the proposed Facility components and their compatibility with and impacts on land use and zoning. The analysis described in this PSS will be conducted through site reconnaissance and a review of aerial photographs, Facility-specific maps, and other municipal and county documents, as well as other desktop research.

### **4.4.1 Overview**

The land use patterns throughout the regional and local areas consist of agriculture, scattered rural homes, and farms, with pockets of commercial, institutional, and industrial development along major transportation corridors.

The most important agricultural products in the region are dairy products; poultry and poultry products; nursery and greenhouse crops; cattle and calves; and vegetables, sweet corn, fruit, and melons. The majority of the Facility Area is located within a Greene County Agricultural District certified by the New York State Department of Agriculture and Markets (NYSDAM). A review of the USDA Natural Resources Conservation Service (NRCS) soil survey data indicates that three out of the 14 soil units within the Facility Area (approximately 10 percent [%]) are designated as Prime Farmland. One of the remaining 11 soil units within the Facility Area is designated as Prime Farmland if drained (approximately 15%). Four of the remaining 10 soil units within the Facility Area are designed as Farmland of Statewide Importance (approximately 70%), and the remaining six soil units are designated as Not Prime Farmland (approximately 5%) (NRCS 2018). Farmland within the Facility Area consists of a combination of row crops (corn and soybeans), hay, and pasture fields. Construction and operation will result in the disturbance of agricultural land;

measures will be employed to minimize or mitigate impacts, to the maximum extent practicable (see Section 4.4.3).

Recreational resources outside the Facility Area include hunting, trapping, fishing, wildlife watching, hiking, picnicking, boating, swimming, and other outdoor activities. These resources are offered within the host Town of Coxsackie at its neighborhood parks, such as Coxsackie Boat Launch and McQuade Park; Sleepy Hollow Lake (located within a private residential community); and the Vosburgh Swamp Wildlife Management Area. The Facility will not directly impact these recreational resources (see Section 4.4.4), as they do not occur within the Facility Area. Proposed studies to evaluate possible views of the Facility from these areas will be further described in Section 4.24.

According to the Town of Coxsackie Zoning Code, where the majority of the Facility Area is located, the Facility components to be located within the Town limits are proposed in the Rural Residential zoning district. In 2016, the Town enacted a law (Local Law No. 1 of 2016) that allowed utility scale solar collector systems in all zones in the Town, subject to Site Plan Review approval pursuant to Article X of the Town of Coxsackie Zoning Law. However, a temporary Town-wide moratorium on the installation of solar energy systems is currently in place (Local Law No. 2 of 2017) in order to provide adequate time for the Town Board to analyze and determine potential appropriate revisions and amendments to its zoning code regarding solar facilities. Local Law No. 2 of 2017 was enacted in December 2017, after Hecate Greene filed its PIP on October 13, 2017.

The north portion of the Facility Area that is located within the Village of Coxsackie is zoned as Medium Density Residential – 2, Rural Residential/Agriculture, and Community Commercial. Additional information regarding both the Town and Village's zoning ordinances is provided in Section 4.31.

#### **4.4.2 Extent and Quality of Information Required**

Hecate Greene will review existing land use and local regulations as they relate to the specific facilities and locations proposed as part of this Facility. This review will assess community character, new and proposed land uses, comprehensive plans, zoning districts, and permitted land use within each zoning district.

A qualitative assessment of land use throughout the Facility Area will provide information regarding the compatibility of the proposed Facility, including solar panels, transmission lines, access roads, and substation, in relation to existing and future land uses. Land uses, including

but not limited to, residential, schools, civic facilities, agriculture, industrial, commercial, scenic resources, recreational and public lands within the Study Area will be identified. This information will be obtained through aerial photographs, site reconnaissance, and desktop research.

This Exhibit will include a detailed review of planning and zoning documents and an evaluation of the Facility's consistency with the planning objectives described in the documents produced by the Town and Village of Cossackie and Greene County. This review will include:

- Greene County Agricultural and Farmland Protection Plan, adopted August 21, 2002 (available at: [http://www.farmlandinfo.org/sites/default/files/GreeneCounty\\_NY\\_AgriculturalandFarmlandProtectionPlan.pdf](http://www.farmlandinfo.org/sites/default/files/GreeneCounty_NY_AgriculturalandFarmlandProtectionPlan.pdf))
- Town and Village of Cossackie Community Plan, dated May 23, 2007
- Town of Cossackie Municipal Code (available at <https://ecode360.com/CO1196>)
- Village of Cossackie Municipal Code (available at <https://ecode360.com/CO0740>)

Aerial photographs of all properties within the Study Area will be of such scale and detail to enable discrimination and identification of all natural and cultural features. Aerial photographs will reflect the current land use situation and will include the source and date of the photographs. Overlays on aerial photographs will depict the Facility Area and proposed Facility components, including limits on proposed clearing or other changes to topography, vegetation or man-made structures, and access and maintenance routes. In addition, a series of maps will be provided that show:

- Existing land use within the Study Area;
- Existing overhead and underground major facilities for electric, gas or telecommunications transmission within the Study Area;
- All properties upon which any component of the Facility will be located, identifying the current land use, tax parcel number, and owner record of each property, and any publicly known proposed land use plans for any of these parcels;
- Existing zoning districts and proposed zoning districts within the Study Area;
- Publicly known proposed land uses within the Study Area (where applicable);
- Designated coastal areas, inland waterways and local waterfront revitalization program areas, groundwater management zones, designated agricultural districts, flood-prone areas, and critical environmental areas designated pursuant to the State Environmental Quality Review (SEQR) Act; and

- Recreational and other land uses within the Study Area that might be affected by the sight, sound or odor of the construction or operation of the Facility including cemeteries, airports, and private campgrounds.

#### 4.4.3 Consistency with State Coastal Policies

As shown on Figure 5, the northern portion of the Facility Area, located within the Village of Coxsackie, is partially located within a New York State-designated coastal zone. In an agency consultation meeting April 6, 2018, New York State Department of State (NYSDOS) requested that Hecate Greene include a list of potentially applicable State Coastal Policies in the PSS for their review, and to complete a coastal policy consistency assessment for inclusion in the Application. Table 4.4-1 summarizes those State Coastal Policies (NYSDOS 2017) Hecate Greene considers potentially applicable to the Facility.

**Table 4.4-1. Potentially Applicable State Coastal Policies**

Section/Policy Number	Policy Statement
<b>Development Policies</b>	
Policy 5	Encourages the location of development in areas where public services and facilities essential to such development are adequate
<b>Fish and Wildlife Policies</b>	
Policy 7	Significant coastal fish and wildlife habitats will be protected, preserved, and where practical, restored so as to maintain their viability as habitats.
<b>Flooding and Erosion Hazards Policies</b>	
Policy 11	Buildings and other structures will be sited in the coastal area so as to minimize damage to property and the endangering of human lives caused by flooding and erosion.
Policy 12	Activities or development in the coastal area will be undertaken so as to minimize damage to natural resources and property from flooding and erosion by protecting natural protective features including beaches, dunes, barrier islands, and bluffs.

Section/Policy Number	Policy Statement
<b>Public Access</b>	
Policy 19	Protect, maintain, and increase the level and types of access to public water related recreation resources and facilities.
<b>Historic and Scenic Resources</b>	
Policy 23	Protect, enhance and restore structures, districts, areas or sites that are of significance in the history, architecture, archaeology or culture of the State, its communities, or the Nation.
Policy 24	Prevent impairment of scenic resources of statewide significance.
Policy 25	Protect, restore or enhance natural and man-made resources which are not identified as being of statewide significance, but which will contribute to the overall scenic quality of the coastal area.
<b>Agricultural Lands</b>	
Policy 26	Conserve and protect agricultural lands in the State's coastal area.
<b>Energy and Ice Management Policies</b>	
Policy 27	Decisions on the siting and construction of major energy facilities in the coastal area will be based on public energy needs, compatibility of such facilities with the environment, and the facility's need for a shorefront location.
<b>Water and Air Resources Policies</b>	
Policy 30	Municipal, industrial, and commercial discharge of pollutants, including but not limited to, toxic and hazardous substances, into coastal waters will conform to State and National water quality standards.
Policy 33	Best management practices will be used to ensure the control of stormwater runoff and combined sewer overflows draining into coastal waters.
<b>Wetland Policy</b>	
Policy 44	Preserve and protect tidal and freshwater wetlands and preserve the benefits derived from these areas.

Hecate Greene will include a consistency assessment for the Facility with these potentially applicable State Coastal Policies in the Application.

#### **4.4.4 Proposed Avoidance, Minimization, and Mitigation Measures**

Potential avoidance and minimization measures to be assessed include, but are not limited to, conserving land to mitigate impacts to wildlife species, arranging the proposed solar array layout in order to preserve areas of farmland and/or adjusting the solar array layout to provide additional spacing as a means of visual impact mitigation.

The participating landowners will be financially compensated by Hecate Greene for exclusive use of the properties. It is the Co-Applicant's understanding that payments to these landowners will allow them to invest in a more successful farming operation outside of the Facility Area. Proposed landscaping and other aesthetic features of the Facility are discussed in Section 4.24.

#### **4.4.5 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding land use include:

- Potential loss of productive agricultural land
- Potential loss of wildlife habitat used by migratory birds and threatened and endangered species
- Proximity to residential neighborhoods
- Consistency with local zoning
- Fragmentation of contiguous non-developed areas
- Potential impact to recreational activities, such as bird watching

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.4.6 and throughout this PSS.

#### **4.4.6 Proposed Studies**

Subject to the discussion in Section 4.4.2, Exhibit 4 of the Application will follow the requirements outlined in Subsections (a) through (p) of Section 1001.4 of the Article 10 regulations, as follows.

Exhibit 4 will contain:

- (a) A map showing existing land uses within the 2-mile Study Area. Land uses will be based upon the New York Office of Real Property Services Property Classification Codes.

- (b) A map of any existing overhead and underground major facilities for electric, gas or telecommunications transmission within the Study Area.
- (c) A map of all properties upon which any component of the Facility or the related facilities would be located, and all properties adjoining such properties, which shows the current land use, tax parcel number and owner of record of each property, and any publicly known proposed land use plans for any of these parcels.
- (d) A map of existing zoning districts and proposed zoning districts within the Study Area, including a description of the permitted and the prohibited uses within each zone.
- (e) A statement as to whether the municipality has an adopted comprehensive plan and whether the proposed land use is consistent with such comprehensive plan. The exhibit will contain the address of the internet site where the plan is posted.
- (f) A map of all publicly known proposed land uses within the Study Area, gleaned from interviews with state and local planning officials, from the public involvement process, or from other sources.
- (g) Maps showing designated coastal areas, inland waterways and local waterfront revitalization program areas; groundwater management zones; designated agricultural districts; flood-prone areas; and critical environmental areas designated pursuant to the SEQR.
- (h) Maps showing recreational and other land uses within the study area that might be affected by the sight, sound or odor of the construction or operation of the Facility, interconnections and related facilities, including Wild, Scenic and Recreational River Corridors, open space, and any known archaeological, geologic, historical or scenic area, park, designated wilderness, forest preserve lands, conservation easement lands, scenic byways designated by the federal or state governments, nature preserves, designated trails, and public-access fishing areas; major communication and utility uses and infrastructure; and institutional, community and municipal uses and facilities; including a summary describing the nature of the probable environmental impact of Facility and interconnection construction and operation on such uses, including an identification of how such impact is avoided or, if unavoidable, minimized or mitigated. Given the provisions of §304 of the National Historic Preservation Act (NHPA), 9 NYCRR §427.8, and §15 of the PSL, information about the location, character, or ownership of a cultural resource will not be disclosed to the public, and will only be disclosed to the parties to a proceeding pursuant to an appropriate protective order if a determination is made that disclosure may:
  - (1) cause a significant invasion of privacy;

- (2) risk harm to the affected cultural resource; or
  - (3) impede the use of a traditional religious site by practitioners.
- (i) A qualitative assessment of the compatibility of the Facility and any interconnection, including any off-site staging and storage areas, with existing, proposed and allowed land uses, and local and regional land use plans, within a 1-mile radius of the Facility site and any interconnection route. The qualitative assessment will include an evaluation of the short- and long-term effects of Facility-generated noise, odor, traffic and visual impacts on the use and enjoyment of those areas for the current and planned uses. The assessment will identify the nearby land uses of particular concern to the community, and will address the land use impacts of the facility on residential areas, schools, civic facilities, recreational facilities, and commercial areas.
- (j) A qualitative assessment of the compatibility of aboveground interconnections and related facilities with existing, potential, and proposed land uses within the Study Area.
- (k) A qualitative assessment of the compatibility of underground interconnections and related facilities with existing, potential, and proposed land uses within 300 feet from the centerline of such interconnections or related facilities.
- (l) The northern parcels of the Facility Area located in the Village of Cocksackie are within a designated coastal area associated with the Hudson River. Therefore, the Application will provide an analysis of conformance with relevant provisions of the Coastal Zone Management Act.
- (m) Aerial photographs of all properties within the study area of such scale and detail to enable discrimination and identification of all natural and cultural features. The source of aerial imagery will be USDA National Agriculture Imagery Program (NAIP) Imagery, New York 100cm, dated 2017.
- (n) Overlays on aerial photographs that clearly identify the Facility site and any interconnection route, the limits of proposed clearing or other changes to the topography, vegetation or man-made structures, and the location of access and maintenance routes.
- (o) All aerial photographs will be the latest available from either federal, state or commercial entities. All aerial photographs will indicate the source and the date photographs were taken.
- (p) A description of community character in the area of the proposed Facility, an analysis of impacts of Facility construction and operation on community character, and identification of avoidance or mitigation measures that will minimize adverse impacts on community character. For the purposes of this paragraph, community character includes



defining features and interactions of the natural, built and social environment, and how those features are used and appreciated in the community.

## **4.5 ELECTRIC SYSTEM EFFECTS - EXHIBIT 5**

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### **4.5.1 Proposed Studies**

Exhibit 5 of the Application will follow the requirements outlined in Subsections (a) through (n) of Section 1001.5 of the Article 10 regulations, as follows.

- (a) A System Impact Study (SIS) is currently being prepared by the NYISO. To the extent available, the study will be included with the Application and will be filed separately under trade secret protection, as NYISO requires the SIS to remain confidential due to Critical Energy Infrastructure Information (CEII) Regulations. According to the NYISO-approved scope, the study will show expected flows on the system under normal, peak and emergency conditions and effects on stability of the interconnected system, including the necessary technical analyses (Thermal, Voltage, Short Circuit, and Stability) to evaluate the impact of the interconnection. The study will include the new electric interconnection between the Facility and the POIs, as well as any other system upgrades required.
- (b) An evaluation of the potential significant impacts of the facility and its interconnection to transmission system reliability at a level of detail that reflects the magnitude of the impacts will be provided in the Application.
- (c) Based on the results of the SIS, the effects of the Facility on ancillary services and the electric transmission system will be discussed in the Application.
- (d) Though not anticipated, should the results of the SIS indicate the Facility will result in adverse reliability impacts, the Application will provide an analysis of any reasonable alternatives that would mitigate the adverse reliability impacts and maintain voltage, stability, thermal limitations, and short-circuit capability at adequate levels.
- (e) The Application will provide an estimate of the increase or decrease in the total transfer capacity across the affected interfaces identified in the SIS. If a forecasted reduction in transfer capability across affected interfaces violates reliability requirements, the discussion will include an evaluation of reasonable corrective measures that could be employed to mitigation or eliminate said reduction.
- (f) The Application will include a description of criteria, plans, and protocols for generation and ancillary facilities design, construction, commissioning, and operation, including as appropriate to the proposed solar technology.

- (1) Engineering codes, standards, guidelines and practices that apply.
  - The design of the Facility substation will be developed in accordance with applicable national standards and will incorporate any required, applicable standards of the interconnecting utility. Codes and Standards: All work will be in accordance with the prevailing standards of skill and care of each trade and current codes and applicable laws and ordinances at the time of construction. The following standards are applicable to the Facility:
    - American National Standards Institute
    - Institute of Electrical and Electronic Engineers
    - National Electric Code
    - National Electrical Manufacturers Association
    - National Electrical Safety Code
    - Association of Edison Illuminating Companies
    - North American Electric Reliability Council
    - National Fire Protection Association
    - American Society for Testing and Materials
    - Occupational Safety and Health Administration
    - American Society of Civil Engineers
  - The Application will provide additional detail on the Facility's electric system codes, standards, guidelines, and practices.
- (2) The Application will include a type certification for a representative technology type that is being considered for the proposed Facility.
- (3) Procedures and controls for facility inspection, testing and commissioning.
  - Functional testing will be performed to ensure the equipment has been installed correctly for each portion of the Facility. When all systems have been tested and are operating properly, the Facility would be commissioned for commercial operation and sale of energy.
- (4) Maintenance and management plans, procedures and criteria.
  - An Operations and Maintenance (O&M) Plan will go into effect once the Facility is in its operation phase. One objective of the O&M Plan is to provide guidance on the maintenance activities needed to minimize the potential impacts to the environment during maintenance and repairs to the Facility. A preliminary O&M Plan will be included in the Application. The operations personnel will have the responsibility to implement specific actions and procedures during operations,

maintenance, and repair activities. The operations staff will maintain the panels, including routine maintenance, long-term maintenance, and emergency work. In all cases, the operations personnel will be responsible for arranging needed repairs either through internal resources or with the aid of additional contractor support.

- (h) The Facility will involve the construction of new on-site collection substations to be built and owned by Hecate Greene, as well as new adjacent interconnecting substations to be owned and operated by Central Hudson. The Facility will also include switching gear and a gen-tie that interconnections to the existing Cocksackie substation. Accordingly, the Application will describe:
  - (1) The substation facilities to be constructed and operated;
  - (2) How the substation and interconnection design will meet the transmission owner's requirements; and,
  - (3) Operational and maintenance responsibilities for the Hecate Greene-owned facilities and how they will meet any applicable Central Hudson standards.
- (i) Facility maintenance and management plans, procedures and criteria, specifically addressing the following topics:
  - (1) The maintenance for the Hecate Greene-owned substation and electrical transmission components of the Facility will be done in accordance with the equipment manufacturers' recommendations and acceptable industry practices. The maintenance schedule will include regularly scheduled safety inspections and the Facility's electric components' integrity will be reviewed in accordance with manufacturer's recommendations. Routine preventative maintenance will be performed regularly and corrective maintenance will be performed as needed. The Facility will undertake maintenance activities on a regular basis. If work is to be performed in a public ROW, notification and any applicable permit(s) to work will be addressed with the appropriate agencies prior to starting any work.
  - (2) Electric transmission, collection and interconnect line inspections, maintenance, and repairs, including:
    - (i) vegetation clearance requirements, management plans, and procedures;
    - (ii) inspection and maintenance schedules; and
    - (iii) minimization of interference with electric and communications distribution systems.

- (j) As part of the O&M procedures for the Facility, a vegetation plan will be developed. This plan will include information on maintaining/mowing vegetation under and between the panels, including information such as time of year and the number of times per year mowing will occur. It will also present information on how an invasive species prevention plan will be implemented in concert with these yearly activities to prevent the introduction and spread of invasive plant species.
- (k) There are no plans to share aboveground facilities with other utilities.
- (l) A status update will be provided with the Application regarding equipment availability and expected delivery dates, if available, for major components including panels, inverters, transformers, and switchgear.
- (m) Blackstart capabilities are not applicable to the Facility.
- (n) Hecate Greene is coordinating with NYISO for the preparation of the SIS, and with Central Hudson (the local transmission owner) for the preparation of the Facilities Study. The Application will include an identification and demonstration of the degree of compliance with the applicable reliability standards of Central Hudson.

## **4.6 WIND POWER FACILITIES - EXHIBIT 6**

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This Exhibit is not applicable to solar facilities.

## **4.7 NATURAL GAS POWER FACILITIES - EXHIBIT 7**

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This Exhibit is not applicable to the Facility as no natural gas power facilities are proposed.

## **4.8 ELECTRIC SYSTEM PRODUCTION MODELING - EXHIBIT 8**

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### **4.8.1 Overview**

Electric System Production Modeling will be completed for the Facility by a consultant who understands the Article 10 requirements, has experience in the region, is licensed and qualified to use ProMOD with the Transmission Access Model, GEMAPS, PROBE, or a similar program, and can meet all the requirements for the Exhibit 8 analyses.

Prior to preparing this Exhibit and executing the associated analysis, Hecate Greene will consult with DPS and NYSDEC to develop an acceptable input data set, including modeling for the Facility and inputs for the emissions analysis to be used in the simulation analyses. The assumptions will be delivered to DPS and NYSDEC in a format meeting the requirements of those agencies.

The analysis will project pricing and emission changes with the Facility in operation, changes in generating resource dispatch and impacts on “must-run” resources as defined in the Article 10 regulations. The results will be documented in a report meeting the requirements of Exhibit 8.

### **4.8.2 Proposed Studies**

Exhibit 8 of the Application will follow the requirements outlined in Subsections (a) through (b) of Section 1001.8 of the Article 10 regulations. It will contain the following analyses developed using GEMAPS, PROMOD or a similar computer-based modeling tool:

- (a) estimated statewide levels of sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and carbon dioxide (CO<sub>2</sub>) emissions, both with, and without the proposed facility;
- (b) estimated minimum, maximum, and average annual spot prices representative of all NYISO Zones within the New York Control Area, both with and without the proposed facility;
- (c) an estimated capacity factor for the facility;
- (d) estimated annual and monthly, on peak, shoulder, and off-peak MW output capability factors for the facility;
- (e) estimated average annual and monthly production output for the facility in MWhs;
- (f) an estimated production curve for the facility over an average year;
- (g) an estimated production duration curve for the facility over an average year; and
- (h) estimated effects of the proposed facility on the energy dispatch of existing must-run resources, defined for this purpose as existing wind, hydroelectric, and nuclear facilities, as well as co-generation facilities to the extent they are obligated to output their available energy because of their steam hosts.

Digital copies of all inputs used in the simulations will be provided to DPS and NYSDEC.

## **4.9 APPLICABLE REASONABLE AND AVAILABLE ALTERNATIVES - EXHIBIT 9**

The following subsections contain a discussion on what topics will be assessed in Exhibit 9 of the Application. The Application will include a preliminary description and evaluation of applicable reasonable and available alternative locations for the proposed Facility, including a description of the comparative advantages and disadvantages of the proposed and any identified alternative locations. Pursuant to the Article 10 regulations, these descriptions and evaluations will be limited to parcels owned by, or under option to, Hecate Greene or its affiliates. For any such identified alternate location, the Application will include a statement of the reasons why the proposed

location, taking into account the potentially significant and adverse environmental impacts, is best suited among the alternatives to promote public health and welfare. It will also include evaluation of a “no action” alternative.

#### **4.9.1 Selection of the Facility Area**

A critical factor for siting a solar facility is finding a transmission line with enough existing capacity to export the power from the Facility to the utility grid system without prohibitive cost or unacceptable environmental impacts. For this Facility, POIs with the existing North Catskill-Coxsackie 69-kV transmission line were selected. This transmission line, which is owned and operated by Central Hudson, generally forms the western boundary of the southern portion of the Facility Area. A new substation is proposed in the west-central portion of the Facility Area, east of the rail line and existing North Catskill-Coxsackie 69-kV transmission line. The northern portion of the Facility Area will tie into the existing Coxsackie substation, located off Stacy Road.

Other important factors include the availability of open and appropriately oriented land and willing land lease participants. The Co-Applicants have conducted preliminary environmental screenings, which are discussed in the appropriate sections of this PSS.

The Facility Area represents the broader area within which selected areas will be developed with Facility components. This provides flexibility during Facility development to minimize and avoid potential impacts to wetlands, cultural resources, visual resources, wildlife habitat, and other sensitive resources.

#### **4.9.2 Reasonable Alternatives to Proposed Facility at the Primary Proposed Location**

The Application will include a description and evaluation of reasonable alternatives to the Facility at the primary proposed location. This will include a discussion on alternatives to the proposed facilities general arrangement and design, different technologies, Facility scale, and timing of the proposed in-service date for the Facility in relation to other planned changes to the electric system. A statement of the advantages and disadvantages of the alternatives and the reasons why the primary proposed design technology, scale or magnitude, and timing are best suited, among the alternatives, to promote public health and welfare, including the recreational, cultural and other concurrent uses that the site may serve will also be included in the Application.

#### **4.9.3 No Action Alternative**

Under the no action alternative, the Facility would not be built or operated, which is incompatible with the Facility’s purpose. Failure to construct the Facility would avoid the impacts directly

associated with the construction and operation of the Facility, but would not result in the environmental and economic development benefits and objectives associated with the Facility. The Facility will produce renewable, clean energy. The no-action alternative would be inconsistent with the goals and objectives of the State's adopted Clean Energy Standard and of the State Energy Plan, including increasing significantly the contribution of renewable energy as part of State's overall energy portfolio while decreasing the State's dependence on fossil fuels. The reduction in greenhouse gas and other air emissions from fossil fuel-fired electric generators that would be displaced by the Facility's operation would not be realized. In addition, the state and municipality would not reap the economic development benefits associated with the Facility.

#### **4.9.4 Energy Supply Source Alternatives**

This section will identify reasonable energy supply source alternatives available to meet the state's energy needs. However, pursuant to the Article 10 regulations, this will be limited to alternative technologies that are feasible considering the objectives and capabilities of the Co-Applicants or its affiliates. This discussion will include an evaluation of the comparative advantages and disadvantages of the Facility and the alternative technologies at a level of detail sufficient to permit a comparative assessment of the feasible alternatives, as described in the Article 10 regulations, discussed for each source alternative technology identified.

#### **4.9.5 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding the applicable reasonable and available alternatives include:

- Alternative locations considered
- Construction of solar panels on residential and/or commercial roofs

To the extent practicable, these topics have been incorporated into the proposed scope of the Application, as outlined in Section 4.9.6 and throughout this PSS.

#### **4.9.6 Proposed Studies**

Exhibit 9 of the Application will follow the requirements outlined in Subsections (a) through (i) of Section 1001.9 of the Article 10 regulations, as follows.

Exhibit 9 will contain:

- (a) an identification and description of reasonable and available alternate location sites, owned by or under option to the Co-Applicants or their affiliates, for the proposed Facility;



- (b) for each alternative location identified, an evaluation of the comparative advantages and disadvantages of the proposed and alternative locations at a level of detail sufficient to permit a comparative assessment of the alternatives discussed considering:
  - (1) the environmental setting;
  - (2) the recreational, cultural and other concurrent uses that the site may serve;
  - (3) engineering feasibility, including interconnections;
  - (4) reliability and electric system effects;
  - (5) environmental impacts, including an assessment of climate change impacts (whether proposed energy use contributes to global temperature increase);
  - (6) economic considerations;
  - (7) environmental justice considerations;
  - (8) security, public safety and emergency planning considerations;
  - (9) public health considerations;
  - (10) the site's vulnerability to potential seismic disturbances and current and anticipated climate change impacts, such as sea-level rise, precipitation changes, and extreme weather events; and
  - (11) the objectives and capabilities of the Co-Applicants.
- (c) a description and evaluation of reasonable alternatives to the proposed Facility at the primary proposed location including alternatives regarding:
  - (1) general arrangement and design;
  - (2) technology;
  - (3) scale or magnitude;
  - (4) timing of the proposed in-service date for the Facility in relation to other planned additions, withdrawals, or other capacity, transmission or demand reduction changes to the electric system;
- (d) a statement of the reasons why the primary proposed location is best suited, among the alternative locations required to be identified, to promote public health and welfare, including the recreational, cultural and other concurrent uses that the site and affected areas may serve.
- (e) a statement of the advantages and disadvantages of the alternatives and the reasons why the primary proposed design technology, scale or magnitude, and timing are best suited, among the alternatives, to promote public health and welfare, including the recreational, cultural and other concurrent uses that the site may serve.



- (f) a description and evaluation of the no action/no build alternative at the primary proposed location including a statement of the reasons why the proposed facility is better suited to promote public health and welfare including the recreational, cultural and other concurrent uses that the site may serve.
- (g) an identification and description of reasonable energy supply source alternatives including but not limited to alternatives to the proposed Facility consisting of renewable generation, distributed generation, and transmission alternatives; this study will be limited to alternatives that are feasible considering the objectives and capabilities of the Co-Applicants or their affiliates.
- (h) for each source alternative technology identified, an evaluation of the comparative advantages and disadvantages of the proposed Facility and the alternative technologies at a level of detail sufficient to permit a comparative assessment of the alternatives discussed considering:
  - (1) engineering feasibility;
  - (2) reliability and electric system effects;
  - (3) environmental impacts, including an assessment of climate change impacts (whether proposed energy use contributes to global temperature increase);
  - (4) economic considerations;
  - (5) environmental justice considerations;
  - (6) security, public safety and emergency planning considerations;
  - (7) public health considerations; and
  - (8) the objectives and capabilities of the Co-Applicants.
- (i) a statement of the reasons why the proposed Facility is best suited, among the alternative sources and measures, to promote public health and welfare, including the recreational, cultural, and other concurrent uses that the site and affected areas may serve.

## **4.10 CONSISTENCY WITH ENERGY PLANNING OBJECTIVES – EXHIBIT 10**

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### **4.10.1 Overview**

Hecate Greene will assess and describe the degree of consistency of the construction and operation of the proposed Facility with the energy policies and long-range energy planning objectives and strategies provided in the most recent state energy plan. This discussion will consider the proposed Facility's effect, as applicable, on reliability, fuel diversity, regional

requirements for capacity, electric transmission constraints, fuel delivery constraints, and other energy policy or long-range energy planning objectives or strategies identified in the most recent state energy plan. This discussion will also include a comparative analysis of the consistency with energy planning objectives offered by the reasonable and available alternative locations or properties identified for construction of the proposed Facility in Exhibit 9.

While this section sets forth nine separate areas (Subsections (a) through (i)) requiring statements, descriptions and analysis, these sections can be grouped into three general categories:

1. Reliability of the bulk transmission grid, managed by the NYISO (Subsections [b], [d], and [e]);
2. Consistency with the New York State Energy Plan (Subsections [a], [c], [f], [g]); and
3. Identified alternatives analysis (Subsections [h] and [i]).

#### **4.10.1.1 Reliability of the Bulk Transmission Grid**

Information developed in support of Exhibits 5 and 8 will be relied upon to assess the Facility's consistency with energy policies and planning objectives as they relate to reliability of the bulk transmission grid.

#### **4.10.1.2 Consistency with New York State Energy Plan**

For this Exhibit, a discussion as to how the proposed Facility is consistent with each of the stated goals and objectives of the current New York State Energy Plan will be provided.

#### **4.10.1.3 Alternatives Analysis**

Information developed in support of Exhibit 9 will be utilized to assess whether any of the identified alternatives, as required by Article 10 and its implementing regulations, would offer material advantages in terms of consistency with energy planning objectives.

### **4.10.2 Proposed Studies**

Exhibit 10 of the Application will follow the requirements outlined in Subsections (a) through (i) of Section 1001.10 of the Article 10 regulations, as follows.

Exhibit 10 will contain:

- (a) a statement demonstrating the degree of consistency of the construction and operation of the Facility with the energy policies and long-range energy planning objectives and

strategies contained in the most recent state energy plan including consideration of the information noted below;

- (b) a description of the impact the proposed Facility would have on reliability in the state;
- (c) a description of the impact the proposed Facility would have on fuel diversity in the state;
- (d) a description of the impact the proposed Facility would have on regional requirements for capacity;
- (e) a description of the impact the proposed Facility would have on electric transmission constraints;
- (f) a description of the impact the proposed Facility would have on fuel delivery constraints;
- (g) a description of the impact the proposed Facility would have in relation to any other energy policy or long-range energy planning objective or strategy contained in the most recent state energy plan;
- (h) an analysis of the comparative advantages and disadvantages of reasonable and available alternative locations or properties identified for construction of the proposed Facility; and
- (i) a statement of the reasons why the proposed location and source is best suited, among the alternatives identified, to promote public health and welfare, including minimizing the public health and environmental impacts related to climate change.

## **4.11 PRELIMINARY DESIGN DRAWINGS - EXHIBIT 11**

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### **4.11.1 Overview**

Preliminary design drawings to be submitted pursuant to this section will be prepared by a Professional Engineer, Architect, or Landscape Architect, as appropriate, licensed and registered in New York State. Drawings will be labeled "not for construction purposes" to indicate their preliminary status. These drawings will be drawn to an appropriate scale using computer-aided design software.

The preliminary site plan will show, at a minimum, the following Facility components:

- Solar panels and associated mounting features (concrete pads, foundations, etc.);
- Access road travel lanes;
- Proposed grading (temporary grading for construction purposes and permanent contours for final grading);

- Electric cable collection lines (overhead and underground cable routes will be differentiated with specific line-types);
- Approximate limits of disturbance for all Facility components (panels, access roads, buildings, electric lines, substation, etc.);
- Clearing limits for all Facility components (panels, access roads, buildings, electric lines, shading vegetation, etc.);
- Indication of off-site permanent ROW and road crossings for electric cable installations;
- Outline of collection and interconnection switchyard/substations, including access driveway, setbacks, and fence line;
- Proposed locations of electric cable installations for crossing of streams, waterbodies, roads, etc.; and
- Laydown, staging, and equipment storage areas.

#### **4.11.2 Proposed Studies**

Exhibit 11 of the Application will follow the requirements outlined in Subsections (a) through (i) of Section 1001.11 of the Article 10 regulations, as follows.

Exhibit 11 will contain:

- (a) A site plan showing all buildings, structures, driveways, parking areas, emergency access lanes, sidewalks, access ways and other improvements at the facility site; depicting the proposed site in relation to adjoining properties; and depicting the layout of onsite facilities and ancillary features. Additional drawings will be included depicting the layout of all offsite facilities and ancillary features.
- (b) A construction operations plan indicating all materials lay-down areas, construction preparation areas, major excavation and soil storage areas, and construction equipment and worker parking areas.
- (c) Grading and erosion control plans indicating soil types, depth to bedrock, general areas of cut and fill, retaining walls, initial and proposed contours, and permanent stormwater retention areas.
- (d) A landscaping plan indicating areas of trees to be retained, removed, or restored; berms, walls, fences and other landscaping improvements; and areas for snow removal storage.
- (e) A lighting plan including type, location, and height of installation of proposed exterior lighting fixtures; an indication of the measures to be taken to prevent unnecessary light

trespass beyond the Facility property line; and manufacturer cut sheets of any proposed light fixtures.

- (f) Architectural drawings including building and structure arrangements and exterior elevations for all buildings and structures, indicating the length, width, height, material of construction, color and finish of all buildings, structures, and fixed equipment and the type(s) of site perimeter fencing to be installed extensively around Facility sites.
- (g) Typical design detail drawings including:
  - (1) Plan and sections of underground facilities, including single and multiple-circuit layouts with dimensions of proposed depth and level of cover, separation requirements between circuits, clearing width limits for construction and operation of the Facility, limits of disturbance, and required permanent off-site ROW;
  - (2) Elevations for overhead electric facilities (collection and transmission lines, if applicable) including height above grade, structure layouts, clearing width limits for construction and operation of the Facility, permanent off-site ROW widths, average span lengths for each proposed layout, and structure separation requirements (for installations requiring more than one pole, etc.) for all single and multiple-circuit layouts;
  - (3) Typical foundations (piers, etc., including dimensions) to be used for solar panel installations;
  - (4) A circuit map indicating overhead and underground installations;
  - (5) Typical details associated with trenchless installations, including typical staging areas, construction machinery arrangements, and bore pits; and,
  - (6) Technical data sheets associated with solar panels to be used for this Facility.
- (h) For interconnection facilities, the plans and drawings listed above will be provided for the proposed interconnection facilities and a profile of the centerline of the interconnection facilities at exaggerated vertical scale. A one-line diagram will also be provided.
- (i) A list of engineering codes, standards, guidelines and practices that the Co-Applicants intend to conform with when planning, designing, constructing, operating and maintaining the generating facility, electric collection system, substation, transmission line, interconnection, and any associated buildings and structures.

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## 4.12 CONSTRUCTION - EXHIBIT 12

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### 4.12.1 Proposed Studies

Exhibit 12 of the Application will follow the requirements outlined in Subsections (a) through (d) of Section 1001.12 of the Article 10 regulations, as follows.

- (a) Hecate Greene will prepare a preliminary Quality Assurance and Control (QA/QC) plan, including staffing positions and qualifications necessary, demonstrating how the Facility will be monitored and will conform with all applicable design, engineering and installation standards and criteria. Specific codes, standards, etc., will also be included, as applicable, such as the New York State Building Code, International Building Code, American Concrete Institute, or any other guidance that will be followed as part of the QA/QC protocol.
- (b) Statements that Hecate Greene and its contractors will comply with to the requirements for protection of underground facilities contained in Public Service Law §119-b, as implemented by 16 NYCRR Part 753, and will comply with applicable pole numbering and marking requirements, as implemented by 16 NYCRR Part 217.
- (c) Hecate Greene will also work with the appropriate parties to develop a mutually agreeable approach for avoiding potential conflicts with existing utility transmission and distribution systems. The Application will include preliminary plans and descriptions indicating design, location and construction controls to avoid interference with existing utility transmission and distribution systems, indicating locations and typical separations of proposed facilities from existing electric, gas, and communications infrastructure and measures to minimize interferences where avoidances cannot be reasonably achieved.
  - (1) This Exhibit will include a discussion on the existing gas main that traverses the Facility Area including:
    - (i) A review of publicly recorded easements associated with the gas main;
    - (ii) An indication of any publicly recorded restrictions associated with the easement for crossings and setbacks; and
    - (iii) A statement that Hecate Greene will consult with the owners of the gas main during the Compliance Filing process concerning applicable safety requirements for the final siting of Facility components.
- (d) This Exhibit will also include a proposed process for addressing relevant and material public complaints, and procedures for dispute resolution during facility construction and operation. Hecate Greene is committed to developing a process that is easily accessed,

is tracked to time of resolution, provides input from construction managers as appropriate, and clearly defines responsibilities for issue resolution. The complaint process will have assigned personnel to track the resolution of the complaint from the time of receipt, verification, resolution development, implementation and confirmation of resolution and will:

- (1) Include a procedure for transmittal of complaint logs to DPS. The complaint log will list all complaints and resolutions, to be maintained during construction and operation of the Facility and will be available to DPS upon request;
- (2) Describe actions the Co-Applicants will take if a complaint remains unresolved after all steps are followed;
- (3) Indicate whether complaints will be accepted from the toll-free line, as well as electronically through e-mail and the Facility website. In addition, complaint handling will address both written and verbal complaints. Verbal complaints received during construction will be converted to written documents that can be tracked by the certificate holder and contractors and be reported to DPS Staff; and
- (4) Identify and include any procedures or protocols that may be unique to each phase of the Facility (e.g., construction, operation, decommissioning of facilities). For example, during construction, complaint calls will be handled locally and quickly.
- (5) This Exhibit will also include information regarding Co-Applicants' communications with stakeholders about construction activities, schedule and applicable safety and security measures. As noted above, the Co-Applicants will consult with any pipeline owners operating pipelines in the Facility Area in developing the Facility design and layout to avoid adverse effects on pipeline integrity and ROW. The Article 10 Application will demonstrate that pipeline facility protection measures are accommodated in the Facility's location, design, accessibility, construction, operation and maintenance methods and procedures.

## **4.13 REAL PROPERTY - EXHIBIT 13**

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### **4.13.1 Proposed Studies**

Exhibit 13 of the Application will follow the requirements outlined in Subsections (a) through (e) of Section 1001.13 of the Article 10 regulations, as follows.

- (a) The Application will include a survey of the Facility Area showing parcel boundaries (leased or subject to easement as well as those that can expect to be leased or made subject to easement) on which proposed Facility components (including panel locations, access roads, fencing, inverters, substation, and laydown yards) are to be located as well as the associated tax map sheet, parcel numbers (block and lot numbers) and owner information. The owner of record of all parcels adjacent to Facility Area properties will also be included. Existing utility facility ROWs (as identified to date), such as the POI, the North Catskill-Coxsackie 69-kV transmission line, which is owned and operated by Central Hudson, and public roads will be shown as will the easement associated with the existing gas main that traverses the Facility Area. Public and private roads on or adjoining or planned for use as access to the site will be depicted. The survey will also show current zoning information for the Town and Village of Coxsackie depicting the various zoning districts that the Facility will be located within.
- (b) This Exhibit will also include maps showing all proposed interconnection facilities and off-property/ROW access drives and construction laydown areas for such interconnections using the data obtained above.
- (c) The Application will provide a description of the agreements for parcels that are secured, under option or to be secured for the Facility, including ingress/egress access to public roads; easements for transmission and collections lines, and crossing existing natural gas and transmission lines; and public road use and occupancy for Facility collection and interconnection lines as appropriate to the Facility design. This Exhibit will provide a statement that the Co-Applicants have or will obtain the necessary real property rights for all parcels needed for the Facility and its interconnection.
- (d) Based on preliminary discussion with local municipal representatives, the Facility will not need any improvement district extensions; therefore, this topic will not be addressed in the Application.

#### **4.13.2 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding construction include:

- Potential impacts on property values

Hecate Greene's preliminary review of existing studies on the effects of wind facilities on property values indicates that wind facilities do not have an appreciable effect on property values. Solar



facilities have a much lower profile than wind facilities. Existing studies on the impacts of renewable energy projects on property values will be discussed in the Application.

## **4.14 COST OF FACILITIES - EXHIBIT 14**

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### **4.14.1 Overview**

The capital cost estimate for the Facility will include all aspects of the construction, including: materials and equipment; construction labor; engineering costs; testing and commissioning; contingencies specific to the Facility; and other indirect charges.

An order-of-magnitude cost estimate will be prepared based upon an engineer's estimate, industry standards, and the Co-Applicants' prior development experience.

Cost estimates will be provided in US dollars and any applicable sales tax on equipment and materials will not be included.

### **4.14.2 Proposed Studies**

Exhibit 14 of the Application will follow the requirements outlined in Subsections (a) through (c) of Section 1001.14 of the Article 10 regulations.

Exhibit 14 will contain:

- (a) A detailed estimate of the total capital costs of the proposed facility, including a separately stated estimate for each interconnection, broken down in a rational manner by the Applicant into major cost components appropriate to the facility.
- (b) A brief statement of the source of the information used as the basis for the estimates required by subdivision (a) of this section.
- (c) Upon the demand of any party or of DPS, the Co-Applicants will supply further detail of the estimates required by subdivision (a) of this section. However, certain components of this exhibit may be considered confidential information, and trade secret protection may be sought in order to control access and use of the information.

## **4.15 PUBLIC HEALTH AND SAFETY - EXHIBIT 15**

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### **4.15.1 Overview**

Solar farms do not generate gaseous or liquid waste and little if any solid wastes during operation. Some petroleum products, such as diesel fuel, lubricating oil, and hydraulic fluid required by construction equipment, will be used in the construction of the Facility. Best management/clean-

up practices will be used to prevent, control, and clean up inadvertent spills. In addition, Facility construction will generate minor amounts of solid waste (i.e., plastic, wood, cardboard and metal materials, construction scrap, general refuse). This construction material will be collected from the Facility Area and managed and transported in accordance with New York State's solid and hazardous waste rules. The Application will provide additional details on construction-generated wastes.

#### **4.15.2 Extent and Quality of Information Required**

In compliance with the Clean Water Act (CWA), a Spill Prevention, Control and Countermeasure (SPCC) Plan will be prepared which will assess the amount of hazardous material associated with the Facility both during its construction and operation. The potential for discharge to waterways will be assessed in the SPCC Plan.

The maps required under Section 1001.15 (f) of the Article 10 regulations will be included in the Application. It is anticipated that data will be used from the NYS Geographic Information System (GIS) Clearinghouse, FEMA, and the USGS.

#### **4.15.3 Proposed Avoidance, Minimization, and Mitigation Measures**

The Facility is not expected to result in any public health or safety concerns associated with gaseous, liquid, or solid wastes. Nevertheless, the SPCC Plan will endeavor to provide specifications as to when secondary containment will be necessary, what spill control equipment should be onsite, contact information for appropriate emergency agencies and procedures for controlling a spill. In addition, routine inspection of the storage of these materials will be conducted to ensure compliance with best management practices. These measures, as will be explained in the Application, are expected to mitigate reasonably unavoidable impacts.

#### **4.15.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding public health and safety include:

- Potential impacts to public health
- Use of pesticides and herbicides on the property
- Use of cleansers on the panels
- Health effects on children

- Potential impacts from the presence of nitrogen trifluoride and sulfur hexafluoride in the solar panels

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.15.5 and throughout this PSS.

#### **4.15.5 Proposed Studies**

Exhibit 15 of the Application will follow the requirements outlined in Subsections (a) through (c) of Section 1001.15 of the Article 10 regulations, as follows.

Exhibit 15 will contain a statement and evaluation that identifies, describes, and discusses all potentially significant adverse impacts of the construction and operation of the Facility, the interconnections, and related facilities on the environment, public health, and safety, at a level of detail that reflects the severity of the impacts and the reasonable likelihood of their occurrence, identifies the current applicable statutory and regulatory framework, and also addresses:

- (a) the anticipated gaseous, liquid and solid wastes to be produced at the Facility during construction and under representative operating conditions of the Facility, including their source, anticipated volumes, composition and temperature, and such meteorological, hydrological and other information needed to support such estimates and any studies, identifying the author and date thereof, used in the analysis;
- (b) the anticipated volumes of such wastes to be released to the environment during construction and under any operating condition of the Facility;
- (c) the treatment processes to eliminate or minimize wastes to be released to the environment;
- (d) the manner of collection, handling, storage, transport and disposal for wastes retained and not released at the site, or to be disposed of;
- (e) maps of the 2-mile Study Area and analysis showing relation of the proposed Facility site to public water supply resources; community emergency response resources and facilities including police, fire and emergency medical response facilities and plans; emergency communications facilities; hospitals and emergency medical facilities; designated evacuation routes; existing known hazard risks including flood hazard zones, storm surge zones, areas of coastal erosion hazard, landslide hazard areas, areas of geologic, geomorphic or hydrologic hazard; dams, bridges and related infrastructure; explosive or flammable materials transportation or storage facilities; contaminated sites; and other local risk factors;

- (f) all significant impacts on the environment, public health, and safety associated with the information required to be identified pursuant to the sections above, including all reasonably related short-term and long-term effects;
- (g) any adverse impact on the environment, public health, and safety that cannot be avoided should the proposed Facility be constructed and operated, and measures for monitoring and measuring such impacts;
- (h) any irreversible and irretrievable commitment of resources that would be involved in the construction and operation of the Facility;
- (i) any measures proposed by the Co-Applicants to minimize such impacts;
- (j) any measures proposed by the Co-Applicants to mitigate or offset such impacts; and
- (k) any monitoring of such impacts proposed by the Co-Applicants.

## **4.16 POLLUTION CONTROL FACILITIES - EXHIBIT 16**

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### **4.16.1 Overview**

This Exhibit will contain completed copies of Hecate Greene's applications or notices for authorizations that will be issued by the NYSDEC pursuant to federally delegated authority in accordance with the CWA. These will include:

- Section 401 Water Quality Certification
- Section 402 State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity Permit No. GP-0-15.002, which will be required for construction
- Preliminary SPCC Plan

Fuel waste byproducts are not anticipated to be produced as a result of construction and operation of the Facility, including its interconnections and ancillary facilities. Transformers integrated into the inverters may, in some instances, contain greater than 500 gallons of liquid. In such cases, the liquid will be of a biodegradable source. For transformers with larger insulating oil volumes, secondary containment may be required, in which case these transformers will be equipped with an integrated steel or separate concrete catch basin for transformer oil, bar grating for a working surface on top of the skid, and a water level float alarm.

### **4.16.2 Proposed Studies**

Exhibit 16 of the Application will follow the requirements outlined in Subsections (a) through (b) of Section 1001.16 of the Article 10 regulations, as follows.

As applicable, Exhibit 16 will contain:

- (a) Copies of completed applications for permits to be issued by the NYSDEC pursuant to federal recognition of state authority, or pursuant to federally delegated or approved authority, in accordance with the CWA and permits pursuant to Section 15-1503 and Article 17 of the New York State Environmental Conservation Law (ECL).
- (b) Such evidence as will enable the Commissioner of NYSDEC to evaluate the Facility's pollution control technologies and to reach a determination to issue, subject to appropriate conditions and limitations, permits for such technologies.
- (c) Such evidence as will enable the Siting Board to evaluate the Facility's pollution control technologies and to make the findings and determinations required by PSL Section 168.

## **4.17 AIR EMISSIONS - EXHIBIT 17**

### **4.17.1 Overview**

During operation, impacts to air quality will not occur as the Facility will produce electricity without generating air emissions. Rather, it is anticipated that the Facility will have a positive impact on air quality by producing electricity with zero emissions, which will offset air emissions from fossil fuel powered generation plants. To demonstrate the net air emissions benefits of the Facility, the Application will evaluate the estimated annual displacements resulting from the Facility for the following pollutants: CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub>, mercury compounds, and lead compounds.

Potential impacts to ambient air quality are limited to temporary construction activities, typical of any residential subdivision or other large commercial development, including emissions from engine exhaust and dust generation during earth moving activities and travel on unpaved roads.

### **4.17.2 Proposed Avoidance, Minimization, and Mitigation Measures**

The anticipated temporary increased emissions and dust from construction activities will not be of a magnitude or duration that will significantly impact local air quality. Dust control procedures will be implemented to minimize the amount of dust generated by construction activities following the Standards and Specifications for Dust Control as outlined in the NYS Standards and Specifications for Erosion and Sediment Controls (NYSDEC 2016).

### **4.17.3 Proposed Studies**

Exhibit 17 will contain a discussion of the anticipated impacts to air quality expected to result from the proposed Facility's construction, including from temporary emissions sources such as

construction equipment, and an identification of appropriate control and mitigation measures to minimize adverse impacts.

## **4.18 SAFETY AND SECURITY - EXHIBIT 18**

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### **4.18.1 Overview**

Overall safety and security concerns associated with the Facility are anticipated to be minimal. Security issues will be addressed prior to mobilization. During construction, site security may include: security guards; cameras; and periodic inspections. Workers will be instructed to report observed or suspected suspicious activity or theft immediately. Local law enforcement officials may be summoned in accordance with the site's Emergency Response Plan (ERP) which will be developed with local input. During construction, the Facility will be managed according to the following site-security guidelines:

- All visitors will be required to check in before proceeding with their business.
- All visitors requiring unescorted access will be orientated on the general job site safety rules.
- All visitors must be escorted at all times, until the Site Orientation Training is complete.
- All gang boxes, pickups, equipment, panel arrays, fuel sources and fenced areas will be locked when not in use and during off-shift hours.
- A roaming Security Officer will be employed during off-shift hours.
- All security events will be reported to Hecate Greene immediately.

#### **4.18.1.1 Construction Security**

A preliminary site security plan for Facility construction will be included in the Application and will address the following:

- The Facility laydown areas may be fenced in during construction. The Facility substation will be fenced in at a designated time during construction.
- Access roads will not be fenced in. Rather, a gate may be installed if an access road crosses an existing fence in the Facility Area.
- Commercially reasonable efforts, such as the use of video cameras or other surveillance technology, may be made as determined necessary to keep the work site in a reasonably orderly condition and to protect materials, equipment, and the completed work against theft and vandalism.

- The substation will have lighting that will be directed downward and include manual switches and/or motion sensors to minimize the effects of light pollution and reduce potential wildlife attraction.
- The Application will address additional security lighting considerations such as task lighting and full cut-off fixtures.

#### **4.18.1.2 Operations Security**

The Co-Applicants will be responsible for site safety and security during operation. A preliminary site security plan for Facility operation will be included in the Application and will address the following:

- The Facility substation will be fenced in and lighting provided at the entrance to the Facility. Lighting of the Facility will be directionally downward and towards the center of the Facility when lit.
- The solar arrays and inverters will be fenced and key locked at all times and may include motion lights.
- The Application will address additional security lighting considerations such as task lighting and full cut-off fixtures.
- Aircraft safety lighting is not required due to the low profile of solar facilities and will not be addressed in the Application.
- The Application will include a description of the cyber security program for the protection of digital computer and communication systems and networks that will support the Facility. The cyber security program will comply with current standards issued by the North American Electric Reliability Corporation.

#### **4.18.1.3 Emergency Response Plan**

Prior to the start of construction, Facility construction staff will prepare a comprehensive ERP that will include:

- Contingences that would constitute a safety or security emergency that may include, but are not limited to:
  - Medical emergency;
  - Property damage;
  - Fire;
  - Chemical release or spill; and
  - Inclement weather lighting.

- For each contingency identified, the ERP will include the following:
  - Emergency response measures;
  - Site clearance and control measures, if applicable; and
  - Agency notification procedures, as required by permits and regulations.

#### **4.18.1.4 New York State Division of Homeland Security and Emergency Services Review**

A preliminary site security and safety response plan will be submitted to the New York State Division of Homeland Security and Emergency Services when the Application is submitted.

#### **4.18.1.5 Local Office of Emergency Management Review**

A review of plans by the local office of emergency management is not required for towns with less than one million people.

#### **4.18.1.6 Fire Response Plans**

The Facility will have a Fire Protection and Prevention Plan. The objective of the plan is to reduce the risk of fire, prevent loss of life and property by fire, and to comply with Occupational Safety and Health Administration's (OSHA) standard on fire prevention, 29 CFR 1926.24. Topics covered in the Fire Protection and Prevention Plan will include, but not be limited to, the following:

- Each company pickup truck will be equipped with first-aid kits and fire extinguishers.
- Facility personnel are not trained firefighters and are not to fight fires beyond the incipient or initial stages, or as required to facilitate personal safety/egress. Personnel will be trained to summon professional help from local emergency response services and evacuate to designated zones of safety.
- Personnel will not be equipped with or trained in the use of professional firefighting equipment.
- The Facility will include one or more spill kits for a small hazardous leak.

The Facility's Fire Protection and Prevention Plan will include applicable procedures relating to fire prevention and protection. These procedures will include topics such as:

- Discussion of potential fires;
- Emergency reporting – fire, spills, and releases;
- Recommended fire responses (in consultation with local fire department)
- Locations of fire equipment and extinguishers;
- Control of smoking near fuel sources;



- Warning signs and site map;
- Flammables and combustibles – storage, dispensing, and use;
- Waste collection and removal; and
- Electrical fire prevention.

#### **4.18.1.7 Contingency Plans for Fire Emergency or Hazardous Substance Instance**

The Application will include recommended contingency plan(s) to be implemented in response to the occurrence of a fire emergency. No hazardous material is planned to be on-site.

#### **4.18.1.8 Review by Local Emergency First Responders**

The ERP in Section 4.18.3 will be provided to the local emergency first responders to solicit input.

### **4.18.2 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding safety and security include:

- Potential impacts to public health
- Incorporation of applicable electrical safety standards
- Incorporation of applicable standards of design regarding major weather events

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.18.3 and throughout this PSS.

### **4.18.3 Proposed Studies**

Exhibit 18 of the Application will follow the requirements outlined in Subsections (a) through (h) of Section 1001.18 of the Article 10 regulations, as follows.

Exhibit 18 will contain:

- (a) A preliminary plan for site security of the proposed Facility during construction of such Facility, including site plans and descriptions of the following site security features as planned:
  - (1) access controls including fences, gates, bollards and other structural limitations;
  - (2) electronic security and surveillance facilities;
  - (3) security lighting, including specifications for lighting and controls to address work-site safety requirements and to avoid off-site light trespass; and

- (4) setback considerations for Facility components that may present hazards to public safety.
- (b) A preliminary plan for site security of the proposed Facility during operation of such Facility, including site plans and descriptions of the following site security features as planned:
  - (1) access controls including fences, gates, bollards, and other structural limitations;
  - (2) electronic security and surveillance facilities;
  - (3) security lighting, including specifications for lighting and controls to address work-site safety requirements and to avoid off-site light trespass;
  - (4) lighting of Facility components to ensure aircraft safety;
  - (5) setback considerations for facility components which may present hazards to public safety, and
  - (6) a description of a cyber security program for the protection of digital computer and communication systems and networks that support the Facility demonstrating compliance with current standards issued by a standards setting body generally recognized in the information technology industry, including, but not limited to, the federal Department of Commerce's National Institute of Standards and Technology, the North American Electric Reliability Corporation, or the International Organization for Standardization, and providing for periodic validation of compliance with the applicable standard by an independent auditor.
- (c) A preliminary emergency response plan to ensure the safety and security of the local community, including:
  - (1) an identification of contingencies that would constitute a safety or security emergency;
  - (2) emergency response measures by contingency;
  - (3) evacuation control measures by contingency; and
  - (4) community notification procedures by contingency.
- (d) A statement that the Co-Applicants have provided a copy of the plans required above in this section, and requested review of such plans and comment by the New York State Division of Homeland Security and Emergency Services.
- (e) A description of all on-site equipment and systems to be provided to prevent or handle fire emergencies and hazardous substance incidents.

- (f) A description of all contingency plans to be implemented in response to the occurrence of a fire emergency or a hazardous substance incident.
- (g) A statement that the Co-Applicants have provided a copy of the plans required in this section above, and requested review of such plans and comment by, local emergency first responders serving the area of the Facility site, and a review of any responses received.

## **4.19 NOISE AND VIBRATION - EXHIBIT 19**

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### **4.19.1 Overview**

Solar facilities have minimal noise impacts, which are largely limited to daylight hours when noise is less likely to be of concern to the surrounding community due to higher ambient noise. Sound emitting sources at the Facility will be limited to the step-up transformers, electrical inverters within the various solar panel fields (during daylight hours when the system is generating electricity) and temporary noise from construction activities and infrequent operation and maintenance activities. There are no vibration issues associated with the operation of a solar facility.

Construction noise may be audible on a temporary basis, but will be intermittent and typical of common construction activities. Once operational, noise from the step-up transformer and electric inverters is not expected to be audible outside the fence, nor will it be noticeable at nearby residences or other potentially sensitive receptors.

Analyses will be carried out to evaluate received sound levels at potential noise sensitive receptors within the Study Area due to the Facility. Impacts from low frequency noise, amplitude modulation, or tones will also be evaluated as part of the study.

### **4.19.2 Proposed Avoidance, Minimization, and Mitigation Measures**

Planned measures to avoid or minimize the noise impacts from the Facility include the following:

- Hecate Greene will evaluate noise in relation to potentially sensitive receptors and use such information to help optimize the layout.
- If necessary, additional noise screening, and reduction features will be explored.
- Construction activities will be limited to the hours allowed by local noise ordinances (as applicable).

The Application will contain detailed information on avoidance and minimization measures once a noise impact study has been completed.

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### **4.19.3 NYSDEC Guidelines and Local Laws and Regulations**

The NYSDEC noise guidelines are defined in the publication “Assessing and Mitigating Noise Impacts.” This document states that sound pressure level increases from 0 to 3 A-weighted decibels (dBA) should have no appreciable effect on receivers; increases of 3 to 6 dBA may have the potential for adverse impact only in cases where the most sensitive of receptors are present; and increases of more than 6 dBA may require a closer analysis of impact potential depending on existing noise levels and character of surrounding land use. The NYSDEC guidance states that the 6-dBA increase is to be used as a general guideline. Although not explicitly stated in the policy, the 6-dBA increase has been applied to the minimum measured equivalent sound level ( $L_{eq}$ ) or alternatively the time-averaged residual sound level ( $L_{90}$ ) for licensing of other projects in New York State. There are other factors which should also be considered. For example, in settings with low ambient sound levels, an absolute limit of 40 dBA has been deemed adequately protective.

The NYSDEC guideline further states that, in terms of threshold values, the addition of any noise source should not raise ambient levels above 65 dBA in nonindustrial settings to protect against speech disturbance or above approximately 79 dBA for industrial environments for associated noise-related health and safety reasons. NYSDEC recommends that projects exceeding either of these threshold levels should actively explore the feasibility of implementing mitigation.

The Village of Coxsackie Code provides quantitative noise standards for non-residential uses (Village of Coxsackie, Code § 155-30). Where the use adjacent to the subject nonresidential use is residential, noise levels at the property line shall not exceed 65 dBA during the day (7:00 AM to 10:00 PM) and 55 dBA at night (10:00 PM to 7:00 AM). Where the adjacent use is commercial, noise levels at the property line shall not exceed 70 dBA during the day and 60 dBA at night. Where the adjacent use is industrial, noise levels at the property line shall not exceed 80 dBA during the day and at night. The Town of Coxsackie imposes these same quantitative noise standards (Town of Coxsackie, Code § 201-34). Hecate Greene anticipates that the Facility will comply with these standards, and will confirm compliance through its noise studies detailed below.

### **4.19.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding noise and vibration include:

- Potential sound emitted by on-site transformers

- Potential noise impact on nearby residences

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.19.5 and throughout this PSS.

#### **4.19.5 Proposed Studies**

An ambient noise monitoring program will be developed to determine baseline noise conditions at nearby noise sensitive receptors (i.e., residences) adjacent to the Facility Area. In order to identify noise sensitive receptors that may be impacted by the Facility, preliminary acoustic modeling of operational sound sources will be completed using the CadnaA acoustic modeling software program.

Operational sound sources consist of the inverters and collection and substation transformers. Inverters are used to convert locally generated DC current into AC power that is then routed to the substation through underground collector cables. Typically, each central inverter package has one or more inverters and a ventilation fan housed inside a pre-fabricated enclosure with an adjacent step up collection transformer. While the sound-level contribution of inverter packages will be evaluated as part of the Application, they are generally considered a low-level source of noise and will be located among the arrays, away from the boundary of the Facility Area.

Substations have switching, protection and control equipment, and a transformer, which generates the sound generally characterized as a low humming. The planned transformers are relatively small (12 to 24 megavolt-ampere) compared to traditional utility-scale generating facilities and will generally emit lower noise levels. There are three main sound sources associated with a transformer: core noise, load noise and noise generated by the operation of the cooling equipment. The core is the principal noise source and does not vary significantly with electrical load. The load noise is primarily caused by the load current in the transformer's conducting coils (or windings) and consequently, the main frequency of this sound is twice the supply frequency: 100 hertz (Hz) for 50-Hz transformers and 120 Hz for 60-Hz transformers. The cooling equipment (fans and pumps) may also be noise sources depending on fan design. During air-forced cooling, cooling fan noise is produced in addition to the core noise. After sunset, when the Facility no longer receives solar radiation, the inverters will not produce noise, and the transformers will be energized but likely operating under low-noise conditions using natural draft air cooling. Fans will not be operating due to lower nighttime heat loads.

CadnaA is a comprehensive three-dimensional acoustic software model that conforms to the International Organization for Standardization (ISO) standard *ISO 9613-2 Attenuation of Sound*

during *Propagation Outdoors*. The engineering methods specified in this standard consist of full octave band algorithms that incorporate geometric spreading due to wave divergence, reflection from surfaces, atmospheric absorption, screening by topography and obstacles, ground effects, source directivity, heights of both sources and receptors, seasonal foliage effects, and meteorological conditions. Using manufacturer sound specifications and other site-specific data, received sound levels will be calculated at discrete receptors as well as within the entire Facility Area, which will be documented within the Application in the form of sound contours.

Once preliminary modeling has been conducted, baseline noise monitoring is proposed to be completed at up to five representative locations based on the Facility design and sensitive receptor locations. A combination of long-term (24-hour) or short-term (30-minute) sound measurements during both daytime and nighttime hours will be used to characterize the existing acoustic environment. Type 1 precision sound level meters will be employed to collect data in broadband and statistical sound level metrics as well as full and 1/3 octave bands spanning a frequency range of 6.3 Hz to 20 kilohertz (kHz). That information will be used to compare existing noise levels to the anticipated operational sound of the Facility to determine the potential for impacts and assess Facility compliance relative to applicable noise criteria. The aim is to first establish a baseline rating classification from the predicted sound pressure level spectrum of the noise sources, and then, through applying a series of correction factors, determine a final rating that should indicate the expected subjective response by receptors, ranging from “No Complaints” to “Widespread Complaints.”

Noise produced during Facility construction will also be analyzed and documented in the Application. In comparison to other facilities, the construction phase for solar energy facilities is shorter in duration. Facility construction will require the intermittent use of heavy equipment that might be periodically audible at offsite locations. Received sound levels will fluctuate, depending on the construction activity, equipment type, and distance between noise source and receptor. Sound from construction equipment will vary dependent on the construction phase and the number and class of equipment at a location at any given time. An inventory of the anticipated construction equipment and vehicles will be obtained for the Facility and an analysis will be conducted to predict received sound levels at noise sensitive receptors.

Compliance will be assessed relative to the applicable criteria, including NYSDEC noise guidelines, as described in Section 4.19.3. As a secondary form of assessment, the modified Composite Noise Rating (mCNR) method will be used to assess noise impacts and the need for potential mitigation measures. This methodology incorporates several factors including the

expected sound levels from the Facility, existing background sound levels, character of the noise (e.g., tonal, impulsive), duration, and subjective factors, such as community attitude or history.

## **4.20 CULTURAL RESOURCES - EXHIBIT 20**

Studies of cultural resources, including archaeological sites and historic architectural resources, will be conducted to identify, assess, and address potential impacts of the construction and operation of the Facility on buildings, structures, objects, sites, and districts that are listed in or eligible for inclusion in the National Register of Historic Places (NRHP). These studies involve a number of steps, which will be completed as appropriate prior to construction of the Facility:

- Define the Area of Potential Effects (APE) for archaeological sites and historic architectural resources;
- Perform a Phase IA Literature Search and Sensitivity Study to establish the pertinent cultural-historical contexts for cultural resources in the study area, including information on previously inventoried resources;
- Perform a Phase IB Field Investigation of the Facility APE, if necessary, to identify archaeological sites;
- Perform Phase II Site Evaluations, if necessary, to determine NRHP-eligibility.
- Develop Facility designs and other strategies to help reduce or avoid impacts to NRHP-eligible archaeological sites, such as through micro-siting of Facility elements;
- Mitigate NRHP-eligible archaeological sites that cannot be avoided through Phase III Data Recovery or other means with the exception of Native American burial sites. Native American burial sites will be left in place and not disturbed.
- Process, analyze, and curate archaeological artifacts and records;
- Provide the Stockbridge-Munsee Community Band of Mohican Indians the opportunity to have a Native American monitor(s) present during all archaeological fieldwork;
- Inventory architectural resources listed in or potentially eligible for listing in the NRHP located within the APE for architecture;
- Avoid or minimize impacts to NRHP-listed and eligible architectural properties as possible;
- Devise mitigation strategies for any adverse impacts to NRHP-eligible architectural resources; and
- Develop an Unanticipated Discoveries Plan and Procedures to be followed during Facility construction.



On August 30, 2017, the Co-Applicants met with the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) staff in their offices in Waterford, New York. During the meeting, the Co-Applicants described the proposed Facility and discussed an appropriate approach to cultural resources studies in support of the Application. The following summarized key items from these initial outreach efforts, which will be incorporated into the Application:

- OPRHP indicated that the APE for archaeological resources (direct effects) would constitute the area of significant ground disturbance.
- OPRHP defined significant ground disturbance to be any excavation or grading associated with the construction of access roads, inverter pads, and the substation, as well as any buried collection lines installed via an open trench greater than 1 foot (0.3 meter) wide, and any construction staging areas that require grading, paving, and/or the installation of crushed stone.
- OPRHP indicated that Phase IB survey would be necessary only for those areas of significant proposed ground disturbance.
- OPRHP indicated that it would not consider installation of posts (by pile-driver or similar device) for PV panel supports or fencing to constitute a significant ground disturbance with a potential adverse impact on archaeological resources and, consequently, no Phase 1B archaeological survey would be necessary for these areas.
- If archaeological resources are identified within the Facility Area, the Co-Applicants will explore modifying the layout to avoid impacts to archaeological resources.
- OPRHP indicated that visual impacts to historic resources should be assessed with priority given to publicly accessible views of each historic property and that internal, private views were a lower priority.
- OPRHP indicated that potential visual effects to the overall traditional vernacular landscape should be evaluated, in addition to evaluation of effects on individual historic properties.
- OPRHP indicated that their online program Cultural Resources Information System (CRIS) should be utilized for project submittals and that archaeological and historic architectural studies should be submitted in separate reports.

Phase IA background studies addressing the Facility Area were completed in 2017. The study included a reconnaissance survey, composed of a visual assessment, site walkover, and photo-documentation; background research; and archaeological site file searches. This effort identified three previous studies completed on approximately 73% of the Facility Area. This and any future



cultural resource studies will be conducted in consultation with the OPRHP, which serves as New York's State Historic Preservation Office (SHPO). In addition, cultural resources studies have been and will be performed in accordance with applicable state and federal guidelines, including the New York Archeological Council's (NYAC) *Standards for Cultural Resource Investigations and the Curation of Archeological Collections in New York State* (1994), the *New York State Historic Preservation Office Phase I Archeological Report Format Requirements* (2005), and the agency's *Recommended Standards for Historic Resources Surveys* (2010). Several sections of Title 36 of the *Code of Federal Regulations* (CFR) are also applicable, including "Determinations of Eligibility for Inclusion in the National Register of Historic Places" (36 CFR 63) and "Protection of Historic Properties" (36 CFR 800).

#### **4.20.1 Overview**

Historic impacts to the Facility Area and surrounding area are related to early Euro-American settlement, land clearing, and agricultural activities, such as logging, plowing, disking, and planting. Previously documented impacts within the Facility Area include those associated with access road (utility and farm) construction, installation of subsurface utilities, and irrigation ditch excavation. While most of the Facility Area is currently composed of tree-lined agricultural fields interspersed with pockets of forest and shrub, there are several existing structures within the Facility Area, as well as several non-extant buildings or map-documented structures (MDS). Disturbances associated with construction (grading, filling, vegetation and tree removal) can be expected in these locations. Additional existing disturbances to the Facility Area include an overhead electrical transmission line ROW and a railroad line that forms the western boundary of the southern portion.

##### **4.20.1.1 Archaeological Resources**

The Phase IA archaeological investigation included site file research for the Facility Area which was conducted using the OPRHP's CRIS. The New York State Inventory and Register, the NRHP, and the NRHP-eligible and State/NRHP-proposed lists were also reviewed. Evidence for past land uses by precontact, protohistoric (contact), and historic (postcontact) Native American groups was based on available information from the OPRHP and other local sources. Generally, aboriginal inhabitants had a preference for streams, river and marsh associations, knolls, and small bluffs or ridges.

Site file searches on the CRIS indicated that portions of the Facility Area are considered archaeologically sensitive. The 26 previously identified archaeological sites identified within the Facility Area are summarized in Table 4.20-1.

**Table 4.20-1 Recorded Archaeological Resources within the Facility Area**

OPHRP Unique Site Number (USN)	Name/Other Site Nos.	Time Period	Site Type	NRHP Determination	Impact*
A03905.000188	Site 3	Paleoindian & Middle	Short-term habitation and	Eligible	B
A03905.000189	Site 4	Paleoindian through	Long-term habitation and	Eligible	C
A03905.000171	A03905.000025, A03905.000026,	Paleoindian through	Unknown occupation	Eligible	A
A03905.000174	Site D; NYSM 6023	Middle Archaic	Unknown occupation	Eligible	A
A03905.000190	Site 5	Late Archaic	Workshop	Eligible	B
A03905.000196	Site 11	Late Archaic	Short-term habitation	Eligible	C
A03905.000192	Site 7; NYSM 8280	Middle Archaic &	Workshop	Eligible	B
A03905.000177	Site G	Late Woodland	Unknown occupation	Eligible	A
A03905.000191	Site 6	Unknown Precontact	Workshop	Eligible	B
A03905.000193	Site 8	Unknown Precontact	Workshop	Eligible	B
A03905.000194	Site 9	Unknown Precontact	Workshop	Eligible	B
A03905.000195	Site 10	Unknown Precontact	Field camp	Eligible	B
A03905.000024	NYSM441	Unknown Precontact	Possible site on Kadlick Farm	Undetermined	A

OPHRP Unique Site Number (USN)	Name/Other Site Nos.	Time Period	Site Type	NRHP Determination	Impact*
A03905.000176	A03905.000022, A03905.000023, SM439, NYSM440, NYSM6022, & Site F	Unknown Precontact	Unknown occupation	Undetermined	A
A03905.000025	NYSM445	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000026	NYSM446	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000172	Site C	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000173	Site B	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000175	Site E	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000179	Site I	Unknown Precontact	Unknown occupation	Eligible	A
A03905.000186	Site 1	Unknown Historic & Precontact	Unknown occupation	Eligible	C
A03905.000170	-	Early 19 <sup>th</sup> century	Historic Cemetery (Van Schaick Cemetery)	Undetermined	A & C
A03905.000169	-	Mid-19 <sup>th</sup> century	Historic Farmstead (Gardner House Site)	Undetermined	A
--	NYSM 6214	No Information	No Information	No Information	D
--	NYSM 6352	No Information	No Information	No Information	D
* A – OPRHP recommends further testing to determine site eligibility/refine site boundaries B – OPRHP recommends solar panel installation only; minimal ground disturbance C – OPRHP recommends complete avoidance; no ground disturbance D – No impacts anticipated; site was not re-identified during previous investigations				<b>Note</b> - some site boundaries encompass previously identified archaeological sites	
Source: OPRHP-CRIS 2017					

Archaeological resources recorded within 1.6 kilometers (km) (1.0 mile) of the Facility Area are summarized in Table 4.20-2.

**Table 4.20-2 Recorded Archaeological Sites within 1.6 km (1.0 mi) of the Facility Area**

OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
03905.000202	Flint Mine Hill Archaeological District	244 m (800 ft)	Late Archaic	Workshop	Not Eligible
--	NYSM 8275; FS 10; Possibly Henry White Farm	0.4 km (0.2 mi) SE	Early Archaic to Late Woodland	Lithic Scatter	Listed
03905.000095	Coxsackie Correctional Facility Retention Pond Site	0.7 km (0.4 mi) W	Early Archaic to Late Woodland	Lithic Scatter; tools	Eligible
03905.000138	Fernlea 1	1.0 km (0.7 mi) W	Early Archaic to Late Woodland	Lithic Scatter	Eligible
03905.000139	Fernlea 2	0.9 km (0.6 mi) W	Early Archaic to Late Woodland	Lithic Scatter	Eligible
03905.000020	Possibly Lamoka Site NYSM 435 (FS 13)	0.3 km (0.2 mi) E	Early Archaic to Late Woodland	Camp	Eligible
03905.000108	Greene Annex Correctional Facility Site	0.4 km (0.3 mi) E	Early to Middle Archaic & Middle to	Camps and Workshops	Eligible
03905.000153	Precontact Site C	1.0 km (0.6 mi) N	Middle Archaic & Woodland	Unknown Occupation	Undetermined
03905.000154	Precontact Site D	1.5 km (0.9 mi) NW	Early Woodland	Villages	No Information
03905.000155	Precontact Site E	1.5 km (1.0 mi) N	Early Woodland	No Information	No Information
03905.000156	Precontact Site F	1.4 km (0.9 mi) N	Unknown Precontact	No Information	Listed

OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
03905.000160	Greene County Business Park Precontact Site 1	0.8 km (0.5 mi) N	Unknown Precontact	Lithic Workshop	Listed
03905.000183	Mountain View Precontact Site	1.4 km (0.9 mi) NE	Unknown Precontact	Rockshelter	Listed
03905.000212	NYSM 8025 Extension	0.6 km (0.4 mi) W	Unknown Precontact	No Information	Undetermined
--	NYSM 448; Bailey's Farm; Cox 22; Ryder 5; FS 28	1.4 km (0.9 mi) SE	Unknown Precontact	Mastodon Fossil (from	Undetermined
--	NYSM 6021	0.2 km (0.1 mi) E	Unknown Precontact	Lithic Workshop	Not Eligible
03905.000003	Flint Mine Hill Site; in Flint Hill Mine Archaeological	0.3 km (0.2 mi) W	Unknown Precontact	No Information	Undetermined
03905.000005	Workshop Area; Possibly SM 406 (Cox 3-4); in Flint	0.6 km (0.4 mi) W	Unknown Precontact	No Information	Undetermined
03905.000007	Baldwin Rockshelter; NYSM 407; Cox 24-6;	1.5 km (0.9 mi) W	Unknown Precontact	No Information	Undetermined
03941.000003	Possibly NYSM 428 (FS 7)	1.0 km (0.6 mi) E	Unknown Precontact	No Information	Undetermined
03941.000004	Mastodon	0.8 km (0.5 mi) NE	Unknown Precontact	No Information	Undetermined
03941.000155	Bailey Street Precontact Site	0.5 km (0.3 mi) E	Unknown Precontact	No Information	Undetermined
03905.000018	Debbie Search Farm; NYSM 450; Ryder 10; FS	0.9 km (0.5 mi) W	Unknown Precontact	No Information	Undetermined

OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
03905.000019	Possibly NYSM 429 (FS 7)	1.4 km (0.9 mi) E	Unknown Precontact	Bedrock Mortars	Undetermined
03905.000021	Possibly Murderer's Creek Site NYSM 436 (FS 13)	0.3 km (0.2 mi) E	Unknown Precontact	No Information	Undetermined
03905.000022	Possibly Kadlick Farm Site NYSM 439 (FS 12)	28 m (90 ft) E	Unknown Precontact	No Information	Undetermined
03905.000027	Possibly NYSM 437 (FS 13)	1.1 km (0.7 mi) E	Unknown Precontact	Camp	Undetermined
03905.000028	Possibly NYSM 438; Site with Many Knives	0.9 km (0.6 mi) E	Unknown Precontact	No Information	Undetermined
03905.000029	Possibly NYSM 430 (FS 10)	0.4 km (0.2 mi) SE	Unknown Precontact	Unknown Occupation	Undetermined
03905.000030	NYSM 431; FS 10	0.5 km (0.3 mi) SE	Unknown Precontact	No Information	Undetermined
03905.000031	Possibly NYSM 442 (FS 12; Sienay Farm)	0.4 km (0.2 mi) S	Unknown Precontact	No Information	Undetermined
03905.000036	Jenson Site; NYSM 444	0.3 km (0.2 mi) N	Unknown Precontact	Camp	Eligible
03905.000038	Good Camp Site; NYSM 464; FS 34	0.9 km (0.6 mi) S	Unknown Precontact	No Information	Not Eligible
03905.000039	Ryder Site; NYSM 443	0.8 km (0.5 mi) N	Unknown Precontact	Unknown Occupation	Undetermined
03905.000142	TEL/ALB 11	1.4 km (0.9 mi) NW	Unknown Precontact	Quarry	Undetermined

OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
03905.000143	TEL/ALB 12	1.1 km (0.7 mi) NW	Unknown Precontact	Unknown Occupation	Eligible
03905.000144	TEL/ALB 16	1.5 km (0.9 mi) NW	Unknown Precontact	Unknown Occupation	Eligible
03905.000152	Precontact Site B	1.0 km (0.6 mi) N	Unknown Precontact	Unknown Occupation	Not Eligible
03905.000164	Prescott Parcel Site 4	1.3 km (0.8 mi) NW	Unknown Precontact	Unknown Occupation	Not Eligible
03905.000178	Hamlet on the Hudson Precontact Site H;	0.1 km (0.1 mi) E	Unknown Precontact	Unknown Occupation	Undetermined
03905.000179	Hamlet on the Hudson Precontact Site I	32 m (110 ft) E	Unknown Precontact	Camp	Undetermined
03905.000197	Prescott Parcel Site 1	1.0 km (0.6 mi) NW	Unknown Precontact	Unknown Occupation	Undetermined
03905.000198	Prescott Parcel Site 2	1.0 km (0.6 mi) NW	Unknown Precontact	Camp	No Information
03905.000199	Prescott Parcel Site 3	1.0 km (0.6 mi) NW	Unknown Precontact	Quarries	No Information
03905.000200	Prescott Parcel Site 5	0.9 km (0.5 mi) NW	Unknown Precontact	Camps	No Information
03905.000203	Flats Road Precontact Site	0.3 km (0.2 mi) W	Unknown Precontact	Village	No Information
03905.000204	Fernlea 3	1.3 km (0.8 mi) SW	Unknown Precontact	No Information	No Information
03905.000206	GCCF Site	1.3 km (0.8 mi) SW	Unknown Precontact	No Information	No Information

OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
--	NYSM Area LP Site 464; FS 34	0.6 km (0.4 mi) S	Unknown Precontact	No Information	Undetermined
--	NYSM 3404; ACP- GRNE- 25	1.3 km (0.8 mi) W	Historic: 1663 to 1792	Homestead	Listed (90NR00540)
--	NYSM Area LP Site 3380; ACP-GRNE-1A	0.3 km (0.2 mi) NE	Historic	No Information	Listed
--	NYSM 3405; ACP- GRNE- NO #	0.8 km (0.5 mi) NE	Historic	No Information	Undetermined
--	NYSM 7105; in Flint Hill Mine Archaeological District	0.2 km (0.1 mi) W	Historic	No Information	Undetermined
--	NYSM 8274; FS 10; Possibly Henry White Farm	0.2 km (0.1 mi) SE	Historic; 1761	Domestic Site; Foundations	Undetermined
A03905.000035	NYSM 403; East Ridge	0.2 km (0.1 mi) E	Historic; Mid-19th to Late-20 <sup>th</sup> C	Domestic Site	Not Eligible
03905.000002	Bronck Homestead Buildings; Pieter Bronck	0.8 km (0.5 mi) W	Historic; 19 <sup>th</sup> C	Domestic Site	Undetermined
03905.000006	Russian Workshop; NYSM 405; Cox 2-4;	0.1 km (0.1 mi) W	Historic	No Information	Undetermined
03905.000013	Baldwin Farm Flats; in Flint Hill Mine Archaeological	1.3 km (0.8 mi) W	No Information	No Information	No Information
03905.000042	Potential Early White Settlement Site	0.2 km (0.1 mi) E	No Information	No Information	No Information



OPHRP USN	Name/Other Site Nos.	Distance from Facility Area	Time Period	Site Type	NRHP Determination
03905.000159	Van Bergen Site	0.7 km (0.4 mi) N	No Information	Rockshelter	No Information
03905.000182	Simpson Historic Site	1.1 km (0.7 mi) NE	No information	No Information	No Information
03905.000184	Wallenburg Historic Site	1.6 km (1.0 mi) NE	No Information	No Information	No Information
03941.000001	NYSM 452; Ryder 55; FS 28; German's Farm	1.0 km (0.6 mi) NE			
--	NYSM 6353	0.1 km (0.1 mi) E			
--	NYSM 408; COX 33-4; RR # 2; in Flint Hill Mine	1.4 km (0.9 mi) SW			
--	NYSM 423; Vermann Rockshelter	1.5 km (0.9 mi) W			
--	NYSM 388; Satisfaction	1.5 km (0.9 mi) NE			
--	NYSM 8279; Bailey Site; Cox 22-4; Ryder 5; FS	1.6 km (1.0 mi) E			

(Source: CRIS 2017)

Of the 68 previously recorded archaeological sites within 1.6 km (1.0 mile) of the Facility Area, 55 are precontact sites, eight are historic, one is multicomponent, and four provided no information as to cultural affiliation. The NRHP-listed Flint Mine Hill Archaeological District (USN 03905.000202) is located approximately 244 meters (m) (800 feet) west of the Facility Area. This site is a nearly 2,000-acre archaeological district composed of 25 recorded prehistoric sites and three historic sites. Precontact sites within the district include a multitude of quarry and workshop sites ranging from the Paleoindian period through the contact period.

Potential Facility Area impacts to archaeological resources could result from excavation and earthmoving during construction. They may also occur as a result of prolonged or extensive vehicle traffic on unprotected ground surfaces. Consequently, the Facility Area APE for archaeological resources is defined as the designed limits of temporary and permanent ground disturbance from the construction of all significant Facility elements, including heavy equipment foundations, access roads, collection line trenches, capped laydown and storage areas, substations, and transmission line trenches.

#### **4.20.1.2 Historic Architectural Resources**

The Phase IA archaeological investigation site file searches also indicated that there are three previously identified historic properties within close proximity to the Facility Area, as summarized in Table 4.20-3: the NRHP-eligible Kadlick Farm (USN 03905.000067); the NRHP-eligible 531 Adams Road property (USN 03905.000128); and the 964 Flats Road property (USN 03905.000128). Due to the Facility Area's proximity to these identified properties, archaeological deposits associated with these properties may exist within the Facility Area.

**Table 4.20-3 Previously Identified Historic Resources within 0.8 km (0.5 mi) of the Facility Area**

<b>OPRHP USN</b>	<b>Name</b>	<b>Distance from the Facility Area</b>	<b>Construction Date</b>	<b>Resource Type</b>	<b>NRHP Determination</b>
03905.000067	Kadlick Farm	10 meters (33 feet) south	circa 1888	Early farmstead	Eligible
03905.000120	531 Adams Road	89 meters (294 feet)	No info.	No info.	Eligible

OPRHP USN	Name	Distance from the Facility Area	Construction Date	Resource Type	NRHP Determination
03905.000128	964 Flats Road	111 meters (366 feet)	no info.	no info.	not eligible

There will be no direct impacts to architectural resources. Changes in the existing visual setting of historic properties that are NRHP-listed or eligible because of, or partially due to, scenic quality or adding to scenic quality will be evaluated in the Application. The extent, or footprint, of any potential impacts depends upon the height, massing, and surface characteristics of Facility components, as discussed in greater detail in Section 4.24.

## **4.20.2 Extent of Quality and Information Required**

### **4.20.2.1 Archaeological Resources**

Based on the results of the Phase IA cultural resources investigation, precontact or historic archaeological resources may be located in and immediately adjacent to the Facility Area. A Phase IB archaeological survey is proposed for all unsurveyed areas within the Facility Area to determine the presence or absence of archaeological sites and cultural materials within the Facility Area. Once approved by the OPRHP and after consultation with the Stockbridge-Munsee Community Band of Mohican Indians, the Phase IB archaeological survey will include a pedestrian survey and a combination of controlled surface inspections and subsurface shovel testing within the APE. While the overall Facility Area encompasses a much larger area, the archaeological APE or the archaeological survey area is proposed to be limited to locations that will involve intensive ground disturbance.

### **4.20.2.2 Historic Architectural Resources**

A Historic Resources survey will be conducted to assess the potential impact of the Facility on historic resources, including structures, buildings, districts, and objects. Typically, the APE for historic resources includes the geographic area or areas within which the undertaking may directly or indirectly cause changes in the character of, or use of, historic properties, if any such properties exist. Proposed activities for the historic resources survey include a pre-survey meeting with an OPRHP representative prior to field work, documentation of all properties 50 years or older within viewshed of the Facility Area (identification, evaluation and recommendation), historic resources

report (following OPRHP guidelines and including OPRHP structure forms for all identified properties), and an upload of the final report to the online CRIS program.

### **4.20.3 Proposed Avoidance, Minimization and Mitigation Measures**

#### **4.20.3.1 Archaeological Resources Avoidance, Minimization, and Mitigation Measures**

Planned measures to avoid or minimize the impacts on archaeological resources from the Facility include the following:

- The Facility design will be adjusted in an attempt to avoid identified archaeological resources that are potentially eligible for inclusion in the NRHP, including archaeological resources classified as impact C areas by the OPRHP.
- Native American burial sites will be avoided.
- Available data will be analyzed to identify landscape features that may have an elevated potential for containing archaeological resources, and efforts will be made to avoid such areas in the Facility design or to ensure that appropriate archaeological survey is conducted within them. If an archaeological site cannot be avoided, the Co-Applicants will consider undertaking a Phase II archaeological investigation or other study (after consultation with OPRHP and the Stockbridge-Munsee Community Band of Mohican Indians) to assess the site's NRHP potential, evaluate potential Facility impacts in detail, and identify possible alternatives for impact avoidance, minimization, or reduction.
- An Unanticipated Discoveries Plan will be created to describe the response process in the event of the unexpected discovery of cultural resources during construction.
- Monitoring during construction activities involving earth excavation may be conducted by a professional archaeologist and/or a Native American monitor to identify and record any archaeological deposits encountered.
- Hecate Greene will maintain contact with representatives of the Stockbridge-Munsee Community Band of Mohican Indians to address concerns about potential Facility impacts to the Native American cultural heritage.

If reasonably unavoidable impacts to NRHP-eligible archaeological resources from the Facility are identified, Hecate Greene will consult the OPRHP and the Stockbridge-Munsee Community Band of Mohican Indians, and as appropriate, other concerned agencies or pertinent stakeholders to identify specific measures to mitigate the impacts. Among the possible measures to be employed are:

- Phase III archaeological data recovery investigations to collect information from NRHP-eligible archaeological sites that will be altered or destroyed by construction.
- Public outreach or similar activities that will offset a loss of archaeological resources.
- Recordation by a professional archaeologist of archaeological objects or deposits encountered during construction in accordance with the Unanticipated Discoveries Plan.

#### **4.20.3.2 Historic Architectural Resources Avoidance, Minimization, and Mitigation Measures**

Planned measures to avoid or minimize the visual impacts from the Facility on NRHP-listed or NRHP-eligible historic architectural resources include the following:

- Other than manufacturer's standard markings, Facility infrastructure will be free of advertising and high-visibility commercial markings.
- Subsurface routing of collection lines will be employed to the extent practicable.
- To the extent feasible, ancillary facilities and transmission corridors will be sited away from historic architectural resources. If not possible, enhanced discovery procedures may be considered.
- Operators will maintain the Facility consistent with industry standards over the life of the Facility.
- The PV panels and other aboveground elements of the Facility will be removed during decommissioning (excepting interconnection facility equipment owned by the interconnection utility).

If reasonably unavoidable impacts to NRHP-listed or NRHP-eligible architectural resources are identified, Hecate Greene will consult with OPRHP, other concerned state or federal agencies, local authorities, and pertinent stakeholders to identify specific measures to mitigate the impacts.

#### **4.20.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding cultural resources include:

- Potential impacts to cultural resources
- Potential impacts to the historic nature of the town and village
- Proximity to a state-protected burial ground

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.20.5 and throughout this PSS.

#### **4.20.5 Proposed Studies**

Exhibit 20 shall contain:

(a) A study of the impacts of the construction and operation of the Facility, interconnections and related facilities on archaeological resources, including:

(1) a summary of the nature of the probable impact on any archeological/cultural resources identified addressing how those impacts shall be avoided or minimized;

(2) a Phase IA archaeological/cultural resources study for the APE for the Facility Area and any areas to be used for interconnections or related facilities, including a description of the methodology used for such study;

(3) a Phase IB study, as determined in consultation with OPRHP;

(4) where warranted based on Phase I study results as determined in consultation with the OPRHP, a Phase II study based on intensive archaeological field investigations shall be conducted in those areas where facilities are planned to assess the integrity and significance of cultural resources identified in Phase I studies. Phase II shall be designed to obtain detailed information on the integrity, limits, structure, function, and cultural/historic context of an archaeological site, as feasible, sufficient to evaluate its potential eligibility for listing on the New York State Inventory and Register or the NRHP. The need for and scope of work for such investigations shall be determined in consultation with the OPRHP, the Stockbridge-Munsee Community Band of Mohican Indians, and DPS;

(5) a statement demonstrating that all important archaeological materials recovered during the Facility cultural resources investigation shall be cleaned, catalogued, inventoried and curated according to NYAC standards; that to the extent possible, recovered artifacts shall be identified as to material, temporal or cultural/chronological associations, style and function; and that the Facility archaeologists shall provide temporary storage for artifacts until a permanent curatorial facility is identified; and

(6) an Unanticipated Discovery Plan that shall identify the actions to be taken in the unexpected event that resources of cultural, historical, or archaeological importance are encountered during the excavation process. This plan shall include a provision for work

stoppage upon the discovery of possible human remains. In addition, the plan shall specify the degree to which the methodology used to assess any discoveries follows the most recent Standards for Cultural Resource Investigations and Curation of Archaeological Collections in New York State. Such an assessment, if warranted, shall be conducted by a professional archaeologist, qualified according to the standards of the NYAC.

(b) A study of the impacts of the construction and operation of the facility and the interconnections and related facilities on historic resources, including the results of field inspections and consultation with local historic preservation groups to identify sites or structures listed or eligible for listing on the New York State Inventory and Register or the NRHP within the viewshed of the facility and within the study area, including an analysis of potential impact on any standing historical structures which appear to be at least 50 years old and potentially eligible for listing in the New York State Inventory and Register or the NRHP, based on an assessment by a person qualified pursuant to federal regulation (36 CFR 61).

## **4.21 GEOLOGY, SEISMOLOGY AND SOILS - EXHIBIT 21**

### **4.21.1 Overview**

This Exhibit will include a study of the geology, seismology, and soils impacts of the Facility consisting of the identification and mapping of existing conditions, an impact analysis, and proposed impact avoidance and mitigation measures as determined by studies included in Appendices to this Exhibit, which will be submitted as part of the Application.

#### **4.21.1.1 Existing Surface Slopes**

To the extent practicable, the proposed Facility components will be sited in relatively flat areas. Nearly 80% of the Facility Area has been identified as having slopes less than 3%, with less than 5% of the Facility Area having slopes greater than 15% (NRCS 2018). Detailed maps delineating existing slopes on and within the drainage area potentially influenced by the Facility and interconnections will be included in an Appendix to the Application. Specifically, the maps will identify potential receptor areas of stormwater runoff, including tributaries to the Hudson River and sources of drinking water.

#### **4.21.1.2 Facility Plans**

A preliminary Facility layout has been developed (see Figure 3). Proposed site plan drawings showing existing and proposed contours at 2-foot intervals and a sufficient scale, for the Facility

and interconnections, to depict all proposed structures, graveled and vegetative areas, and construction areas will be included in an Appendix to the Application.

The Co-Applicants will identify sensitive environmental, agricultural, and human health and safety receptors for potential hazards associated with construction on slopes greater than 25%. Facility components are not anticipated to be located on steep slopes; however, for any Facility components proposed to be located in areas of extremely steep slopes, the Application will assess the risk of potential impacts associated with construction on these areas, including potential for extreme rainfall events leading to severe erosion hazards and water quality impacts at downstream water resources and aquatic habitats. Mitigation and avoidance measures, including alternative siting of Facility components in these areas will be discussed in the Application.

#### **4.21.1.3 Excavation and Backfill Analysis**

Prior to placing fill for access roads and other Facility features, the contractor will either remove vegetation, topsoil, organic subsoils, and other unsuitable materials or if determined suitable by the engineer, the ground will be rolled and fabric laid before laying road gravel and cap. Unstable subgrades will be removed and replaced with compacted structural fill or crushed stone as necessary, and the subgrade will be compacted. Structural or common fill may be placed to reach the required grade.

Major cut or fill activity is not anticipated during construction of the Facility. The land slopes gently to the south and east and is composed of low rolling hills interspersed with nearly flat fields and, as such, cut or fill activity will be minimal. Detailed descriptions and preliminary calculations of the quantity of cut and fill necessary to construct the Facility, including separate calculations for topsoil, sub-soil and rock will be included in the Application.

An Invasive Species Plan will be developed specific to the Facility construction activities for identifying the presence of invasive species in spoil material and to prevent the introduction and/or spread of invasive species by the transport of fill material to or from the Facility Area. Generally, equipment staging and operations will occur on cleared, grade, gravel construction roads free of debris. However, the equipment used to clear, grade, and excavate the Facility Area may collect various invasive plants and seeds. External equipment will also need to be monitored and cleaned, if required. The Invasive Species Plan will detail procedures to reduce the introduction of invasive vegetation to the Facility Area and transportation of invasive vegetation away from the Facility Area.



#### **4.21.1.4 Fill and Construction Materials**

The construction/access roads for the Facility will be about 15 to 20-foot wide gravel roads designed to meet the load-bearing requirements of truck traffic transporting concrete, gravel, and PV panel components to the array sites over the life of the Facility.

Native soil/fill may be separated from the base material to prevent fine soil particles from migrating into the gravel base material and preserve road base integrity. During construction, additional areas may be compacted on each side of the gravel roads to allow for the additional construction traffic. Following construction, these compacted areas will be scarified, as necessary, before seeding.

Temporary staging/storage areas, which will include construction offices and trailers, as well as areas for concrete batch sites (if necessary) will also be constructed with gravel. Concrete will be used for foundations for the substation and pads for each inverter skid, electrical transformers, and other electrical substation gear.

Detailed descriptions and preliminary calculations of the amount of fill, gravel, asphalt, and surface treatment material to be brought in to the Facility Area and interconnections will be included in the Application.

#### **4.21.1.5 Material to be Removed from the Facility Area**

Excavated soils during construction are typically reused on site for backfill and contour smoothing with the goal of not removing soil from the Facility Area. Large stone and bedrock will be crushed for use in the immediate Facility Area. Area surveys and geotechnical investigations may be conducted to determine if these conditions exist within the limits of disturbance. A detailed description and preliminary calculations of the proposed type and amount of cut material or spoil to be removed from the Facility Area will be developed as needed.

#### **4.21.1.6 Excavation Techniques**

The PV panels for the proposed Facility will be ground-mounted on a low-profile racking system that will have a small post footprint, typically consisting of small I-beam posts, driven into the ground. As the posts are driven, there is no need for excavation to install the racking system. Minimal excavation will be required for construction of the Facility and it will primarily be required for the construction of access roads, substation and interconnection facilities, and for electrical collection lines throughout the Facility.

The following is an overview of excavation techniques that could be employed by the contractor. The contractor will ultimately be responsible for the equipment and methods used during construction.

- Following topsoil removal by bulldozer and pans, excavators will be used to excavate a shallow hole for spread foundation. Alternatively, the design may require driven pile foundations. Excavated subsoil and rock will be segregated from stockpiled topsoil.
- Direct burial methods via cable plow, rock saw and/or trencher will be used during the installation of underground interconnect lines whenever possible. In general, cable may be buried 24 to 36 inches deep depending on soil conditions, depth to bedrock, and land use. A temporary footprint of vegetation and soil disturbance of up to about 3 feet will result due to machinery dimensions and backfill/spoil pile placement. Agricultural topsoil within the Facility footprint will be stripped and segregated from excavated subsoil. Subgrade soil will be replaced around the cable, and topsoil will be replaced at the surface, immediately after installation of the cable.
- Open trench installation may be required where there are unstable slopes, excessive unconsolidated rock, or standing or flowing water or where a wider trench is needed for a larger number of parallel circuits. Open trench installation is performed with a backhoe and will generally result in a disturbed trench 3 to 6 feet wide. Similar to a trench cut by a trencher or rock cutter, a Bobcat or small bulldozer will be used to replace soils and restore the grade.
- To avoid or minimize impacts to specific environmental or important archaeological features, directional drilling may be used at specific locations following discussions with the United States Army Corps of Engineers (USACE), NYSDEC, DPS, and SHPO. If horizontal direction drilling is utilized, the Co-Applicants will perform an evaluation of the suitability of existing soils and shallow bedrock, including an assessment of frac-out risk potential, based on the results of the preliminary geotechnical investigations and publicly available soils and bedrock data. If frac-out is a risk, then a contingency plan will be prepared to identify site specific risk, mitigation, and response methods.
- Two of the Facility's 69-kV interconnects will be adjacent to the existing 69-kV lines and, therefore, the interconnect lines will be very short and within the Facility Area boundary. An additional POI (for the northern portion of the Facility Area, located within the Village of Coxsackie) will require an approximately 3,500-foot overhead 13-kV interconnection line. Other medium voltage collection that may be routed aboveground (which is not

preferred due to shading impacts) will be strung along either wooden or steel pole structures about 40 feet in height. Aboveground line wooden poles will be delivered from the staging area and installed in augured holes, backfilled with gravel, guyed where needed and anchored.

#### **4.21.1.7 Temporary Storage Areas**

Preliminary cut or fill storage areas will be described and depicted on a site plan will be included in an Appendix to the Application.

#### **4.21.1.8 Existing Soils for Construction**

A preliminary geotechnical study will be conducted for the Facility Area including borings, test pits, laboratory resistivity testing, thermal resistivity testing, in-situ electrical resistivity testing, and geophysical investigations, as determined by the engineer. The preliminary geotechnical study will identify and provide rationale for the locations of the proposed soil borings and describe the sampling methods and types of geotechnical and geophysical analyses that will be performed. Boring locations will be selected to characterize each of the mapped general soil associations and shallow bedrock types in the Facility Area. The results of preliminary geotechnical tests will serve to evaluate:

- Foundation designs for the tracker posts and equipment foundations;
- Excavation techniques, including blasting (if applicable, though not anticipated);
- Preliminary cut and fill calculations;
- Suitability of existing soils for re-use as fill; and
- Crossing methods of sensitive environmental resources by collection lines and transmission lines.

The Application will include a description of the characteristics and suitability for construction purposes of the material excavated for the Facility and of the deposits found at foundation level, including factors such as soil corrosivity, bedrock competence, and subsurface hydrologic characteristics.

#### **4.21.1.9 Blasting Plan**

No blasting is anticipated for the proposed Facility construction. As discussed above, a preliminary geotechnical study will be performed at the Facility Area that will include information on anticipated depth to bedrock. If bedrock is encountered during excavation, it will generally be ripped with a backhoe or ripper. If the bedrock is not anticipated to be able to be ripped, it will be

excavated by pneumatic jacking or other excavation techniques. Bedrock is not anticipated to be removed for trenching due to the shallow nature of the trenches. Though not anticipated to be required, blasting would be utilized only if the other potentially available methods of excavation are not practicable. It would be conducted in compliance with a Blasting Plan, which would be submitted for approval in the Compliance Filing, and which would be designed to be in accordance with applicable laws and good engineering practices to avoid impacts to sensitive receptors. If bedrock is encountered during the tracker post installation, then drilling is the most common method.

#### **4.21.1.10 Impacts from Blasting**

No blasting is anticipated. If blasting were to be required, the blasting plan would provide an assessment of potential impacts of blasting to environmental features, above-ground structures and below-ground structures such as pipelines and wells.

#### **4.21.1.11 Blasting Mitigation Measures**

No blasting is anticipated. If it were required, information generated from the Blasting Plan and geotechnical study would be used to identify and evaluate any reasonable mitigation measures regarding blasting impacts, including the potential use of alternative technologies and/or location of structures.

#### **4.21.1.12 Regional Geology, Tectonic, and Seismology**

The Facility will be located entirely within Greene County, which is topographically diverse, with the Catskill Mountains to the west and the Hudson Valley to the east, characterized by very low relief, rocky ridges, and dissected drainages caused by glacial deposits. Greene County is in two physiographic provinces – the Catskill section of the Appalachian Plateau and the Hudson Valley section of the Ridge and Valley Province. The Facility Area lies within the Hudson Valley section of the Ridge and Valley Physiographic Province, on a level terrace along the Hudson River, with short tributaries of the river traversing flatbed deposits of sand and clay. The average elevation of the terrace along the Hudson River is approximately 100 feet amsl in the south to approximately 150 feet amsl in the north (USDA 1993). The Facility Area is located in a transitional area between Potic Mountain and the Hudson Valley and is bounded to the west by the sharp rise of Flint Mine Hill. The Facility Area is relatively flat, with gently slopes toward the on-site streams. Elevations within the Facility Area range between 104 feet and 163 feet amsl.

The bedrock geology of the Facility Area is part of the Normanskill Formation, which is heavily folded and faulted and forms bedrock ridges. Bedrock may be exposed within the Facility Area

along these ridges and consists of Ordovician slate, shale, greywacke, and chert. Caves and subterranean rivers can be found throughout the region (French 1860). In lower areas, bedrock may be greater than 5 feet below ground surface (USDA 1993).

Based on the 2014 New York State Hazard Map (USGS 2014a), Greene County is located in an area with a 2% or less probability over 50 years of peak acceleration exceeding 10% to 14% of the force of gravity. This indicates relative low probability for seismic activity and bedrock shift in the vicinity of the Facility Area. The most recent earthquake in the vicinity of the Facility Area was a 1.8 magnitude earthquake that occurred in 2007 approximately 14.5 miles west of the Facility Area (USGS 2018a).

#### **4.21.1.13 Impacts to Regional Geology**

Based on the limited spatial scale of the Facility, construction and operation of the Facility is not expected to result in negative impacts on geology and topography on a regional scale. No significant impacts on geology are anticipated from construction and operation of the Facility. Minimal earthwork will be required as the Facility Area primarily consists of flat terrain. Only minimal excavation will be required for the Facility as posts supporting the solar panel racking systems will be driven into the ground and, therefore, will not require excavation.

Karst conditions exist to the west of the Facility Area, along Interstate-87. The karst geology consists of carbonate rocks buried under less than 50 feet of glacially derived insoluble sediments. Rock types consist of shale, limestone, and siltstone (USGS 2014b). Site-specific preliminary karst condition assessments will be conducted to assess the potential for karst formation. A SPDES permit will be obtained prior to construction initiation in which stormwater best management practices will be developed specifically to protect the karst features at the Facility Area, if present. Precautions will also be taken to seal potential pathways for water with concrete over exposed bedrock subgrades. Existing karst features in the vicinity of the Facility Area will be identified on maps and more fully described in the Application.

Construction and operation of the Facility could impact small portions of the Facility Area topography where construction occurs in the following situations:

- Surface soil could be compacted during construction of the solar arrays and support structures (i.e., access roads and underground power lines).
- Local topography around the solar arrays and roads may be changed to accommodate the requirements to construct and operate the arrays.

- Local drainage patterns may be impacted as a result of construction activities. The Stormwater Pollution Protection Plan (SWPPP) required as part of the SPDES permit will address these impacts. The SWPPP will take into consideration karst features in relation to the drainage patterns to ensure that karst development is not accelerated.

As additional geotechnical subsurface investigations/data and construction plans are advanced, the Application will include any specific impacts to regional geology due to the construction and operation of this Facility.

#### **4.21.1.14 Seismic Analysis**

As described above, USGS data indicate that the Facility Area is not located within an active seismic region. No significant tectonic faults have been mapped in Greene County, and there are no known active faults (i.e., younger than 1.6 million years) in this region (USGS 2018b).

#### **4.21.1.15 Soils Map**

A map delineating soil types on the Facility Area will be included in an Appendix to the Application and categorized by mapping unit and hydric characteristics. As applicable, the map will also show all locations designated as applicable:

- Prime farmland;
- Prime farmland, if drained;
- Unique farmland;
- Farmland of Statewide importance; and
- Farmland of local importance.

The Application will include a discussion describing how the siting, construction, and operation of the Facility will avoid, minimize, or mitigate to the maximum extent practicable, impacts to farmland with these designations, including a description of the proposed methods for soil stripping, storage and replacement upon the completion of construction, where disturbance to such areas cannot be avoided.

Methods for identifying the locations of drainage tile in designated farmland will also be included in the Application, along with a description of practices for restoration of farmland drainage systems following construction. The Co-Applicants will consult with the Greene County Soil and Water Conservation District for records of drainage improvements within the Facility Area.

The Co-Applicants met with the NYSDAM on March 14, 2018 to discuss impacts to farmland.

#### **4.21.1.16 Soils Analysis**

The Facility Area is dominated by Kingsbury and Rhinebeck soils, which are formed in lacustrine or marine sediments, and found on glacial lake plains. These soils are nearly level to gently sloping, somewhat poorly drained, and very deep. Fourteen soils from seven different soil series are present within the Facility Area, representing a variety of landforms, textures, and drainages (USDA 1993).

This section will include a detailed description of the characteristics and suitability for construction purposes of each soil type identified above, including a description of the soil structure, texture, percentage of organic matter, and recharge/infiltration capacity of each soil type; a discussion of any de-watering that may be necessary during construction and whether the Facility shall contain any components below grade that would require continuous de-watering.

Geotechnical investigations, consisting of subsurface explorations, laboratory analysis, and geotechnical design recommendations will be conducted to characterize the soil conditions in the proposed locations of Facility components, and address the suitability of these soils for construction of the Facility.

#### **4.21.1.17 Subsurface Analysis and Impacts**

This section requires maps, figures, and analyses delineating depth to bedrock and underlying bedrock types. It will include vertical profiles showing soils, bedrock, water table, seasonal high groundwater, and typical foundation depths on the Facility Area, and any area to be disturbed for roadways to be constructed and all off-site interconnections required to serve the Facility. An evaluation of potential impacts due to Facility construction and operation, including any on-site wastewater disposal system, based on information to be obtained from available published maps and scientific literature, review of technical studies conducted on and in the vicinity of the Facility, and on-site field observations, test pits and/or borings will be provided, as available.

Construction activities such as clearing and grubbing; grading; trenching; excavation; movement of heavy equipment; and cleanup activities may affect soil. Potential soil and agricultural productivity-related impacts in the portion of the Facility Area on which construction will occur may include:

- soil compaction and rutting;
- erosion and sediment runoff during precipitation events;
- introduction of rocks into the topsoil, impeding agricultural practices;

- contamination due to leaks and spills from construction vehicle operation and maintenance;
- introduction of weeds or other invasive species; and
- loss of productive agricultural land.

The Application will describe soil constraints, potential impacts of Facility components on soil resources and agricultural productivity, and the measures that will be implemented during construction and operation to avoid, minimize, or mitigate, to the maximum extent practicable, impacts on soil resources for the following:

- compaction and rutting;
- stony/rock soils or shallow-depth-to-bedrock soils;
- erosion and sedimentation;
- soil contamination;
- agricultural productivity; and
- drainage features.

#### **4.21.1.18 Foundation Evaluation**

The PV panels for the proposed Facility will be ground-mounted on a low-profile racking system that will have a small post footprint, typically consisting of small I-beam posts, driven into the ground upon which the tracker/panel framework is mounted. Foundations may be required for inverter packages and components of the substation and interconnection facilities. Hecate Greene will conduct an evaluation to determine suitable equipment foundations for these facilities, including:

- A preliminary engineering assessment to determine the types and locations of foundation to be employed. The assessment will investigate the suitability of such foundation types as spread footings, caissons, or piles, including a statement that all such techniques conform to applicable building codes or industry standards;
- The tracker posts will be driven with a small pile driver. It is not anticipated that larger pile driving will be needed for the Facility equipment (inverters, substation); however, if larger piles are to be used, a description and preliminary calculation of the number and length of piles to be driven, the daily and overall total number of hours of pile driving work to be undertaken to construct the facility, and an assessment of pile driving impacts on surrounding properties and structures due to vibration will be conducted; and



- Results from the geotechnical investigations conducted for the Facility Area will be used to inform this section for the Application submission.

#### **4.21.1.19 Possible Vulnerability to Earthquake and Tsunami**

As noted above, the Facility Area appears to have minimal vulnerability associated with seismic events based on review of available data. Further geotechnical research and evaluations will update this analysis.

Due to the inland site location, there is no vulnerability associated with tsunami events.

#### **4.21.2 Proposed Studies**

Exhibit 21 of the Application will follow the requirements outlined in Subsections (a) through (s) of Section 1001.21 of the Article 10 regulations as follows.

Exhibit 21 will contain a study of the geology, seismology, and soils impacts of the facility consisting of the identification and mapping of existing conditions, an impact analysis, and proposed impact avoidance and mitigation measures, including:

- (a) a map delineating existing slopes on and within the drainage area potentially influenced by the Facility site and interconnections;
- (b) a proposed site plan showing existing and proposed contours at 2-foot intervals, for the Facility site and interconnections, at a scale sufficient to show all proposed buildings, structures, paved and vegetative areas, and construction areas;
- (c) a description and preliminary calculation of the quantity of cut and fill necessary to construct the Facility, including separate calculations for topsoil, sub-soil, and rock, and including a plan to identify the presence of invasive species in spoil material and to prevent the introduction and/or spread of invasive species by the transport of fill material to or from the site of the facility or interconnections;
- (d) a description and preliminary calculation of the amount of fill, gravel, asphalt, and surface treatment material to be brought in to the Facility site and interconnections;
- (e) a description and preliminary calculation of the proposed type and amount of cut material or spoil to be removed from the Facility site and interconnections;
- (f) a description of excavation techniques to be employed;
- (g) a delineation of temporary cut or fill storage areas to be employed;
- (h) a description of the characteristics and suitability for construction purposes of the material excavated for the Facility and of the deposits found at foundation level, including

factors such as soil corrosivity, bedrock competence, and subsurface hydrologic characteristics;

- (i) in the unlikely event that blasting were to be required, a preliminary plan describing all blasting operations, including location, minimum blasting contractor qualifications, hours of blasting operations, estimates of amounts of rock to be blasted, warning measures, measures to ensure safe transportation, storage and handling of explosives, use of blasting mats, conduct of a pre-blasting condition survey of nearby buildings and improvements, and coordination with local safety officials;
- (j) in the unlikely event blasting were determined to be required, an assessment of potential impacts of blasting to environmental features, aboveground structures and belowground structures such as pipelines and wells;
- (k) in the unlikely event blasting were determined to be required, an identification and evaluation of reasonable mitigation measures regarding blasting impacts, including the use of alternative technologies and/or location of structures, and including a plan for securing compensation for damages that may occur due to blasting;
- (l) a description of the regional geology, tectonic setting and seismology of the Facility vicinity.
- (m) an analysis of the expected impacts of construction and operation of the Facility with respect to regional geology, if such can be determined;
- (n) an analysis of the impacts of typical seismic activity experienced in the Facility area based on current seismic hazards maps, on the location and operation of the Facility identifying potential receptors in the event of failure, and if the facility is proposed to be located near a young fault or a fault that has had displacement in Holocene time, demonstration of a suitable setback from such fault;
- (o) a map delineating soil types on the Facility and interconnection sites;
- (p) a description of the characteristics and suitability for construction purposes of each soil type identified above, including a description of the soil structure, texture, percentage of organic matter, and recharge/infiltration capacity of each soil type and a discussion of any de-watering that may be necessary during construction, and whether the Facility shall contain any facilities below grade that would require continuous de-watering;
- (q) maps, figures, and analyses delineating depth to bedrock and underlying bedrock types, including vertical profiles showing soils, bedrock, water table, seasonal high groundwater, and typical foundation depths on the Facility site, and any area to be disturbed for roadways to be constructed and all off-site interconnections required to serve

the Facility, including an evaluation for potential impacts due to Facility construction and operation, including any on-site wastewater disposal systems, based on information to be obtained from available published maps and scientific literature, review of technical studies conducted on and in the vicinity of the facility, and on-site field observations, test pits and/or borings as available;

- (r) an evaluation to determine suitable building and equipment foundations, including:
  - (1) a preliminary engineering assessment to determine the types and locations of foundations to be employed. The assessment shall investigate the suitability of such foundation types as spread footings, caissons, or piles, including a statement that all such techniques conform to applicable building codes or industry standards;
  - (2) if piles are to be used for the equipment foundations, a description and preliminary calculation of the number and length of piles to be driven, the daily and overall total number of hours of pile driving work to be undertaken to construct the facility, and an assessment of pile driving impacts on surrounding properties and structures due to vibration; and
  - (3) identification of mitigation measures regarding equipment foundation pile driving impacts, if applicable, including a plan for securing compensation for damages that may occur due to pile driving; and
- (s) an evaluation of the vulnerability of the Facility site and the operation of the Facility to an earthquake event and a tsunami event.

## **4.22 TERRESTRIAL ECOLOGY AND WETLANDS – EXHIBIT 22**

### **4.22.1 Overview**

The Application will contain information necessary for identification and description of terrestrial resources and wetlands, analysis of the temporary and permanent impact of the construction and operation of the Facility and its interconnections, and identification and evaluation of reasonable avoidance and mitigation measures for these resources pursuant to Section 1001.22 of the Article 10 regulations. This section of the PSS is organized to first identify existing terrestrial resources and wetlands, based on studies that the Co-Applicants have conducted to date, and describe potential impacts of the construction and operation of the Facility and its interconnections on these resources; followed by a description of the additional studies the Co-Applicants propose to conduct. The resources for this section of the PSS are grouped as follows: plant communities

and general wildlife habitat; mammals; avian resources; state and federal endangered and threatened species; wetlands; and agricultural resources.

#### **4.22.1.1 General Wildlife Habitat**

In response to agency and public comments received, Hecate Greene has reduced the Facility footprint. A total of approximately 395 acres of the approximately 933-acre Facility Area will be disturbed for the construction of the Facility. This includes variety of cover types that potentially provide habitat for wildlife. Table 4.22-1 summarizes the Facility Area by cover type based National Land Cover Database (NLCD). Less than 45% (less than 395 acres) of the total area removed or disturbed will be converted to permanent features associated with the Facility such as panel arrays, access roads, and ancillary features such as a substation.

**Table 4.22-1: General Land Cover within Facility Area and Facility Layout Limits of Disturbance**

<b>NLCD Land Cover Class</b>	<b>Approximate Facility Area Coverage (Acres)</b>	<b>Approximate Facility Layout (Acres)</b>
Developed, open space	32.6	4.2
Developed, low intensity	6.0	0.3
Developed, medium intensity	2.8	0.1
Developed, high intensity	0.1	0
Deciduous Forest	37.0	6.0
Evergreen Forest	1.8	0.1
Mixed Forest	2.2	0.3
Shrub/Scrub	9.3	9.0
Grassland/Herbaceous	3.3	1.2
Pasture/Hay	528.4	188.2
Cultivated Crops	291.1	184.9
Woody Wetlands	12.0	0.2
Emergent Herbaceous Wetlands	6.0	0

#### **4.22.1.2 Mammals**

Greene County habitat supports a variety of mammals, including: white-tailed deer (*Odocoileus virginianus*); wild turkey (*Meleagris gallopavo*); ruffed grouse (*Bonasa umbellus*); eastern gray squirrel (*Sciurus carolinensis*); eastern cottontail (*Sylvilagus floridanus*); gray fox (*Urocyon cinereoargenteus*); eastern coyote (*Canis latrans*); racoon (*Procyon lotor*); striped skunk (*Medphitis mephitis*); and Virginia opossum (*Didelphis virginiana*) (USDA 1993). A variety of shrew (family *Soricidae*), mice and rats (family *Cricetidae*) and moles (family *Talpidae*) are also native to the woods and meadows of the Facility Area. In addition, a variety of bat species, including two protected species (discussed in Section 4.22.1.4) may be present in the area. Mammals observed within the Facility Area indicate species generally adapted to human activities and associated with the agricultural land use.

The most likely impact to mammals from the Facility would be indirect impacts in the form of habitat loss or alteration resulting from addition of the Facility to the landscape. For mammals, Facility related impacts are expected to be temporary and minor such as: temporary displacement of disturbance-tolerant species into adjacent suitable habitat during construction and minor wildlife mortality of less mobile species due to interactions with machinery during construction.

Minimal tree clearing is proposed and all tree-cutting will be done within the timeframe specified by the USFWS and NYSDEC, when breeding bats are not present to avoid direct impacts to bat species. Minimal tree removal for construction of the Facility is also anticipated so only a negligible fraction of suitable summer roost habitat within range of bat hibernacula would be affected.

#### **4.22.1.3 Avian Resources**

The Facility Area is located in the Atlantic Flyway migratory bird route and the habitats within provide potential stop-over points for migratory species as well as potential breeding habitat. Direct impacts of the Facility to birds are not anticipated given the very low profile of the panel arrays. Indirect impacts of solar energy development can include disruptions of foraging behavior, breeding activities, and migratory patterns resulting from presence of the Facility in landscapes used by birds and bats.

The Facility Area is also located in a Grassland Habitat Focus Area as identified in the Greene County Grassland Habitat Management Plan (Strong, et. al. 2014). These areas of open habitat provide breeding and wintering areas needed to maintain the state-endangered Short-eared Owl (*Asio flammeus*) and the state threatened Northern Harrier (*Circus cyaneus*). Other species of conservation concern that are known from this area include Bobolink (*Dolichonyx oryzivorus*),

Eastern Meadowlark (*Sturnella magna*), Savannah (*Passerculus sandwichensis*) and Grasshopper (*Ammodramus savannarum*) Sparrows, Upland Sandpiper (*Bartramia longicauda*), and American Kestrel (*Falco sparverius*). Hecate Greene met with the NYSDEC on March 14, 2018 to identify potential avian concerns associated with Facility construction and/or operation. NYSDEC indicated the potential for both breeding grassland birds and wintering grassland raptors to occur in the Facility Area.

Direct impacts to grassland birds may include change in bird community composition with some species, particularly raptors, avoiding of areas within, or close to, Facility components (DeVault et.al. 2014).

#### **4.22.1.4 State and Federal Endangered or Threatened Species**

Based on information compiled from the USFWS IPaC tool and results from a data request to the NYSDEC NYNHP, the following state and federal endangered or threatened species have been documented within or in the vicinity of the Facility Area:

- Indiana bat (*Myotis sodalis*) – Federal and New York Endangered
- Northern long-eared bat (*Myotis septentrionalis*) – Federal and New York Threatened
- Short-eared owl (*Asio flammeus*) – New York Endangered
- Northern harrier (*Circus cyaneus*) – New York Threatened

IPaC results provide information on a broader county level while results for documented species occurrence from NYNHP are more narrowly focused on the Facility Area. Results from the NYNHP did not identify northern long-eared bats in the Facility Area.

##### Indiana bat (*Myotis sodalis*)

It is not anticipated that operation of the Facility will have any direct or indirect impacts on Indiana bats.

Indiana bats hibernate in caves and mines during the winter. Female Indiana bats radio-tracked from hibernacula in various New York counties were found to move between approximately 10 and 35 miles to roost locations on their foraging grounds (USFWS 2007). Summer roosts typically consisted of living, dying, and dead trees in both rural and suburban landscapes. In summer, male Indiana bats are found most commonly in areas near hibernacula.

##### Northern long-eared bat (*Myotis septentrionalis*)

It is not anticipated that operation of the Facility will have any direct or indirect impacts on northern long-eared bats.

Similar to most bats found in New York, northern long-eared bats hibernate in caves and mines. During the summer, northern long-eared bats roost singly or in colonies underneath bark, in cavities or in crevices of both live trees and snags (dead trees). Males and non-reproductive females may also choose summer roosts in cooler places, like caves and mines. Northern long-eared bats appear to be adaptable in selecting summer roosts, choosing roost trees of variable sizes that retain bark or provide cavities or crevices.

Mist net captures from New York suggest that northern long-eared bats may also be found using younger forest types. A variety of tree species are used for roosting. Roosts of female bats tend to be large-diameter, tall trees, and in at least some areas, located within a less dense canopy (Sasse and Pekins 1996). On rare occasions, they have also been found roosting in structures, like barns and sheds or behind shutters.

Short-eared owl (*Asio flammeus*)

The short-eared owl prefers open areas such as grasslands and marshes with low vegetation to feed on small prey, primarily meadow voles. Day roosts are typically on the ground, but also may be under low shrubs, in conifers, or low open perches. New York is the southern edge of their breeding range with the exception of some scattered breeding records further south. The breeding range in the state is generally limited to the St. Lawrence and Lake Champlain valleys, the Great Lakes Plains, and marshes along the south shore of Long Island. During the winter months, Short-eared Owls use habitats similar to those used during the breeding season. Significant numbers of wintering owls are in the Finger Lakes and the Lake Ontario plains (especially in Jefferson County), at scattered locations in the Hudson Valley, and the south shore of Long Island (NYNHP 2017a).

Short-eared owls may occur within the Facility Area due to the presence of open agricultural fields, which may contain preferable nesting, foraging, and wintering habitat.

Northern harrier (*Circus cyaneus*)

The northern harrier is a medium-sized bird of prey that prefers open grasslands and wetlands to feed on small prey. Nests are constructed on the ground, usually in dense vegetation. Northern harriers have been documented breeding in the western Great Lakes plain, open habitats of the Adirondacks, western Finger Lakes, Long Island, and the Hudson, Saint Lawrence, and Lake Champlain valleys. The winter range is similar depending on prey abundance and snow cover (NYNHP 2017b).



Northern harriers may occur within the Facility Area due to the presence of open agricultural fields, which may contain preferable wintering and foraging habitat.

The USFWS IPaC Report also identified 14 migratory bird species on the USFWS Birds of Conservation Concern list. (USFWS 2018), including:

- Bald Eagle (*Haliaeetus leucocephalus*)
- Black-billed Cuckoo (*Coccyzus erythrophthalmus*)
- Bobolink (*Dolichonyx oryzivorus*)
- Cerulean Warbler (*Dendroica cerulean*)
- Dunlin (*Calidris alpine arctica*)
- Golden Eagle (*Aquila chrysaetos*)
- Lesser Yellowlegs (*Tringa flavipes*)
- Prairie Warbler (*Dendroica discolor*)
- Semipalmated Sandpiper (*Calidris pusilla*)
- Snowy Owl (*Bubo scandiacus*)
- Wood Thrush (*Hylocichla mustelina*)

#### **4.22.1.5 Wetlands**

Based on a review of the USFWS NWI maps, there are sixteen NWI-mapped wetland areas (approximately 26 acres) on, or within 500-feet of, the Facility Area (See Figure 5). Of the approximately 26 acres of NWI-mapped wetlands, approximately 16 acres are within the Facility Area. Approximately 9 acres of the NWI-mapped wetlands are freshwater emergent, approximately 5 acres are freshwater ponds, and approximately 2 acres are riverine wetlands. Most of the NWI-mapped freshwater emergent wetlands are associated with a stream that runs along the eastern boundary of the northern portion of the Facility Area (See Section 4.23). Another small NWI-mapped freshwater emergent wetland is located within agricultural fields on the southern portion of the Facility Area. There are five NWI-mapped freshwater ponds within the Facility Area, four of which are located within the southern portions of the Facility Area and one which is located within the northern portion. The NWI-mapped riverine wetland is located along a segment of Mosher Creek in the southern portion of the Facility Area. Table 4.22-2 provides a summary of the number and acreage of wetlands mapped by the NWI within the Facility Area and outside its boundaries, within a 500-foot zone.



**Table 4.22-2: Mapped NWI Wetlands within the Facility Area and 500-foot Buffer**

Wetland Class <sup>1</sup>	Acreage
PEM	0.14
R3/R4/R5	1.85
PEM	0.09
PUB	0.46
PUB	0.41
PUB	0.15
PUB	0.27
PFO	0.01
PUB	3.88
PUB	0.97
PEM	1.45
PEM	2.15
PUB	0.05
PUB	0.91
PEM	13.45
PUB	0.18
<b>Total</b>	<b>26.42</b>

<sup>1</sup>PEM = palustrine emergent

R3/R4/R5 = Riverine Intermittent/Perennial

PUB = palustrine unconsolidated bottom

PFO = palustrine forested

Based on a review of the NYSDEC Freshwater Wetland Maps, there are portions of four NYSDEC-mapped wetlands (approximately 164 acres) on, or within 500-feet of, the Facility Area (See Figure 5). Of the approximately 164 acres of NYSDEC-mapped wetlands, approximately 137 acres lie within the Facility Area, all of which are Class I wetlands. One NYSDEC-wetland is associated with a stream that runs along the eastern boundary of the northern portion of the Facility Area (See Section 4.23). The remaining NYSDEC wetlands are located within the south portion of the Facility Area within the agricultural fields. Table 4.22-3 provides a summary of the

number and acreage of wetlands mapped by the NYSDEC within the Facility Area and outside its boundaries, within a 500-foot zone.

**Table 4.22-3: Mapped NYSDEC Wetlands within the Facility Area and 500-foot Buffer**

Wetland ID	Wetland Class	Acreage
HN-106	I	12.23
HN-108	I	2.77
HN-118	I	0.37
HN-118	I	5.82
HN-118	I	79.55
HN-118	I	17.29
HN-119	I	45.45
<b>Total</b>		<b>163.48</b>

In addition, 49 wetlands were field delineated within the Facility Area during three separate field efforts in November and December 2016, September 2017, and May 2018. During September 2017, the field effort included delineating previously un-surveyed wetlands as well as verifying wetlands delineated during winter 2016. The May 2018 effort included the delineation of wetlands in the easternmost area of the Facility Area. Delineated wetlands are summarized in Table 4.22-4 and shown on Figure 6.

**Table 4.22-4: Preliminary Delineated Wetlands within the Facility Area**

Wetland ID	Cowardin Class	Edinger Ecological Community	Connectivity	Jurisdictional Status	Approximate Area within the Facility Area (acres)
W-01	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	5.9
W-02	PEM/SS1e	Shallow emergent	Unnamed tributaries to	NYSDEC/USACE	7.4

Wetland ID	Cowardin Class	Edinger Ecological Community	Connectivity	Jurisdictional Status	Approximate Area within the Facility Area (acres)
		marsh/Shrub swamp	Murders Creek		
W-03	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	3.2
W-04	PEM1e	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.1
W-05	PEM/SS1e	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.3
W-06	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.4
W-07	PEM1e	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.3
W-08	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	1.2

<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-09	PEM1e	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.2
W-10	PEM1e	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1
W-11	PEM1e	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.2
W-12	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Isolated	Potentially Non-jurisdictional	0.1
W-13	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Murders Creek	NYSDEC/USACE	0.1
W-14/15	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Murders Creek	NYSDEC/USACE	0.1
W-16	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.1

<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-17	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Isolated	Potentially Non-jurisdictional	0.9
W-18	PEM1e	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	3.2
W-19	PEM1e	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.6
W-20	PEM/SS1e	Shallow emergent marsh/Shrub swamp	Unnamed tributaries to Murders Creek	NYSDEC/USACE	16.8
W-21	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.4
W-22	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1
W-23	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.3

<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-24	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	1.1
W-25	PEM	Shallow emergent marsh	Murders Creek	Potentially Non-jurisdictional	0.8
W-26/27	PEM	Shallow emergent marsh	Murders Creek	NYSDEC/USACE	2.1
W-28	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1
W-29	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1
W-30	PFO/PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	USACE	4.7
W-31	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1
W-32	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.1

<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-33	PFO/PEM	Floodplain/ Shallow emergent marsh	Unnamed tributaries to Murders Creek	USACE	3.2
W-34	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	USACE	2.1
W-35	PFO	Floodplain Forest	Unnamed tributaries to Murders Creek	USACE	0.1
W-36	PFO	Floodplain Forest	Unnamed tributaries to Murders Creek	USACE	0.2
W-100	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.2
W-101	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/ USACE	3.9
W-102	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/ USACE	0.1

<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-103	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	4.7
W-104	PEM1A	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	13.8
W-105	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.4
W-106	PEM	Shallow emergent marsh	Isolated	Potentially Non-jurisdictional	0.3
W-107	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.2
W-108	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	0.1
W-109*	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	5.7



<b>Wetland ID</b>	<b>Cowardin Class</b>	<b>Edinger Ecological Community</b>	<b>Connectivity</b>	<b>Jurisdictional Status</b>	<b>Approximate Area within the Facility Area (acres)</b>
W-110*	PEM	Shallow emergent marsh	Murders Creek	NYSDEC/USACE	15.6
W-111*	PEM	Shallow emergent marsh	Unnamed tributaries to Murders Creek	NYSDEC/USACE	15.0
<b>Total</b>					<b>116.3</b>

\*Acreage represents percentage of the area delineated, as the full delineated area represents a mosaic of wetlands and upland.

#### **4.22.1.6 Agricultural Resources**

As discussed in Section 4.4, most of the Facility Area is located within an Agricultural District certified by the NYSDAM, with on-site cultivated crops consisting of corn and soybeans, in rotation, and hay lands.

The Application will include an analysis of the temporary and permanent impacts of the construction and operation of the facility and the interconnections on agricultural resources, including the acres of agricultural land temporarily affected, the number of acres of agricultural land that will be permanently converted to nonagricultural use, and mitigation measures to minimize the impact to agricultural resources.

### **4.22.2 Proposed Studies**

#### **4.22.2.1 General Wildlife Habitat**

Plant community and wildlife habitat characterization will be completed for the Facility Area and will be included in the Application. Land cover classes noted in Section 4.22.1.1 will be described in more detail using Ecological Communities of New York State data (Edinger, et al. 2014) and supplemented by field observations of dominant vegetation within the Facility Area. For each community identified, its Heritage Program Element Rank will be provided. A table listing area

assumptions used to determine vegetation disturbance by Facility component will also be included in the Application.

Wildlife studies and data relating to the presence, abundance, and distribution of wildlife species in the Facility Area will be conducted to provide area-specific guidance on the nature and extent of potential direct and indirect impacts. Data have been collected from the NYNHP and USFWS and will be supplemented by available data from: the New York State Amphibian and Reptile Atlas Project; the New York State Breeding Bird Atlas and range maps; North American Breeding Bird Survey Routes; Audubon Christmas Bird Counts; Ebird; and other similar reference sources, including an identification and depiction of any unusual habitats or significant natural communities that could support state or federally listed endangered or threatened species or species of special concern. No Significant Coastal Fish and Wildlife Habitat Areas designated by NYSDOS/NYSDEC are designated within the Facility Area (NYSDOS 2018). In addition, the Co-Applicants have consulted the NYSDEC and will consult the USFWS for additional information on threatened and endangered species.

Habitat characterization within the Facility Area will be based on identification and description of the type of plant communities present within the Facility Area and the interconnections, and adjacent properties (as access permits). Plant communities will be classified using the USGS Gap Analysis Program national land cover data set (Version 2), and will be identified to ecological system level describing dominant species and subdominant associates. Wetland and aquatic habitats will be classified according to the USFWS Classification of Wetlands and Deep Water Habitats of the United States (Cowardin, et al. 1979). Generated plant community maps will be field verified to corroborate accuracy of mapped cover types and adjusted for recent changes to the landscape. The extent of offsite field corroboration will be based on access availability to adjacent properties. A list of terrestrial invertebrates, amphibian, reptile, avian, and mammal species likely to reside in habitats associated with the Facility Area will be compiled. Specifically, the Application will identify species present at the Facility Area that are dependent on open fields or un-fragmented forest, and will include an evaluation of how those species will be affected by construction and operation of the proposed Facility. In addition, the Application will include a discussion of impacts to wildlife corridors and how the presence of wildlife corridors is ascertained.

The Application will also include an analysis of the temporary and permanent impact of the construction and operation of the facility and the interconnections on the vegetation identified, including a map of vegetation within the Facility Area showing the areas to be removed or

disturbed. The Application will also include a plan to identify the presence of invasive species and to prevent the introduction and/or spread of invasive species.

#### **4.22.2.2 Mammals**

As noted in Section 4.22.1.4 above, Indiana bat and northern long-eared bat have been documented within the vicinity of the Facility Area. Potential Indiana bat and northern long-eared bat habitat has been preliminarily identified within the Facility Area. All tree-cutting will be done within the timeframe specified by the USFWS to avoid impacts to bat species.

The Application will include a list of the species of mammal likely to occur on, or in the vicinity of, the Facility Area based on site observations and supplemented by publicly available sources. The Application will also include an analysis of karst geologic formations within the Facility Area and evaluate any corresponding potential bat or other wildlife impact considerations.

Habitat for mammals currently hunted in the Facility Area will be identified and a qualitative discussion of how Facility operations may impact these species and the opportunity for continued hunting in the Facility Area will be provided. As noted above, minimal tree clearing is proposed and all tree-cutting will be done within the timeframe specified by the USFWS to avoid impacts to bat species.

#### **4.22.2.3 Avian Resources**

As discussed in Section 4.22.1.1, most of the Facility Area consists of agricultural land. The Facility Area also includes areas of, wetland, shrubland, and forest, which may support a number of avian species as foraging and breeding habitat. The Application will present information on birds from the New York State Breeding Bird Atlas (BBA). The Facility Area is located within or immediately adjacent to three survey blocks, including 5969C, 5698A, and 5968C.

Three other publicly available data sources that will be assessed include Ebird, the North American Breeding Bird Survey, and Audubon Christmas Bird Count. The nearest BBS route, the Austerlitz route, is located approximately 3 miles east of the Facility Area. Data from this route will be included in the Application. The Facility Area falls within the 15-mile radius count circle of the Catskill-Coxsackie CBC location and will be assessed as part of the Application.

The Application will compile a list of birds within the vicinity of the Facility Area based on records from these survey blocks and supplemented by on site observations. The Application will present information on birds from the New York State BBA survey blocks, including 5969C, 5698A, and

5968C, the Audubon Christmas Bird Count Greene County circle, and Ebird Greene County, for a summary of bird resources in the Facility Area.

In addition, the Co-Applicants have initiated consultation with NYSDEC staff regarding the need for Facility-specific avian field surveys, and the extent of information that will be provided in the Application. These discussions took place during a meeting with NYSDEC staff in Albany, New York on March 14, 2018. NYSDEC indicated the potential for grassland birds within the Facility Area and recommended both breeding bird surveys and wintering grassland raptors surveys.

In coordination with NYSDEC, Hecate Greene initiated end of season 2017/2018 winter raptor surveys for the Facility Area. Surveys were conducted using the NYDEC Draft Survey Protocol for State-listed Wintering Grassland Raptor Species (NYSDEC 2015b) and in consultation with NYSDEC. The protocols specifically target the New York State-listed short-eared owl (*Asio flammeus*) (Endangered) and northern harrier (*Circus cyaneus*) (Threatened). Surveys at two survey stations were simultaneously run on March 26, 2018, April 2, and April 11, 2018. Avian species observed during the four surveys included both short-eared owls or northern harriers, and are summarized in Table 4.22-5.

**Table 4.22-5: Avian Species Observed within the Facility Area**

Survey Date	Survey Point Number	Species Observed
03/26/2018	Point 1	Red-tailed Hawk
		Short-eared Owl
03/26/2018	Point 2	Coopers Hawk
		Northern Goshawk
		Eastern Screech Owl
		Short-eared Owl
04/02/2018	Point 4	Northern Goshawk
04/11/2018	Point 7	Red-tailed Hawk
	Point 9	Northern Harrier
		Coopers Hawk

For grassland breeding birds and grassland wintering raptors, the Applicant will continue to coordinate with NYSDEC to determine the need for further grassland bird surveys within the Facility Area. Grassland breeding bird surveys will be conducted using NYSDEC's Draft Survey Protocol for State-listed Breeding Grassland Bird Species (NYSDEC 2015a). On May 17, 2018, a site-specific work plan was submitted to NYSDEC for review and approval.

#### **4.22.2.4 State and Federal Endangered or Threatened Species**

Information on the distribution and abundance of known occurrences of state-listed species in the Facility Area will be compiled from documented occurrences recorded by the NYNHP and the USFWS. Results of on-site surveys (as requested by the NYSDEC), as well as results of species-specific surveys conducted by the NYSDEC, if any, will supplement the documented occurrences. A spatial analysis of these data will be completed to assess potential impact of the Facility on identified listed species.

The Co-Applicants have consulted the NYSDEC and are currently preparing avoidance, minimization, and mitigation strategies for threatened and endangered species in compliance with the federal Endangered Species Act (ESA 1973) and Part 124 of New York State ECL Article 11. Hecate Greene will initiate consultation with the USFWS and will continue to consult the NYSDEC on threatened and endangered species during the course of the Article 10 Application process.

#### **4.22.2.5 Wetlands**

Wetlands were delineated during November and December 2016, September 2017, and May 2018 using the three-parameter methodology described in the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987) and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (USACE 2012). Wetland boundaries were documented using GPS technology with sub-meter accuracy.

The Application will include a map showing delineated boundaries based on on-site identification of all federal, state, and locally regulated wetlands present on the facility site and within 500 feet of areas to be disturbed by construction. For adjacent properties without accessibility, initial surveys may be based on remote-sensing data, interpretation of published wetlands and soils mapping, and aerial photography.

Wetland delineations for currently un-surveyed parcels will be completed using the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987) and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (USACE 2012). The 500-foot zone outside the proposed limits of disturbance

but within the control of Hecate Greene will also be field inspected for the presence of hydric vegetation, soil, and hydrology indicators, and areas meeting the criteria will be delineated.

The Application will also include a description of the vegetation, soils, and hydrology data collected for each of wetland sites identified, based on actual on-site wetland observations. Hydric vegetation, soil, and hydrology indicators at representative sampling station locations have been and will be recorded on the Corps of Engineers regional data forms for each delineated wetland. Wetland cover types have been and will be characterized using the USFWS classification of wetlands (Cowardin 1979). Observations supporting potential functions and values will be recorded at each wetland. Wetland boundaries will be recorded using a Trimble® GeoXT™, or equivalent, handheld unit. Photographs will be taken of each delineated wetland. These data have been collected for the previously delineated wetlands.

For adjacent properties not accessible to Hecate Greene, desktop delineations will be completed based upon analysis and interpretation of available remote-sensing and GIS data including: NYSDEC Freshwater Wetlands maps; NWI maps; the USGS National Hydrography Dataset; and USDA Natural Resources Conservation Service soil survey data. Compiled information will be geo-referenced with USGS 1:24,000-scale quadrangle maps and recent aerial photography. Based on an examination of previously mapped wetlands, hydric mapped soils, and photointerpretation of vegetation cover type, approximate wetland boundaries will be determined.

The Application will include a qualitative and descriptive wetland functional assessment, including seasonal variations, for all wetlands delineated as above for: groundwater recharge/discharge; floodflow alteration; fish and shellfish habitat; sediment/toxicant retention; nutrient removal; sediment/shoreline stabilization; wildlife habitat; recreation; uniqueness/heritage; visual quality/aesthetics; and protected species habitat.

Functions and values will be assessed using procedures outlined in the Highway Methodology Workbook Supplement issued by the USACE New England District (USACE 1995) that prescribes a descriptive approach. This method integrates wetland science and value judgment into the overall assessment of a wetland. This method considers eight functions and five values. Principal and secondary (where applicable) functions and values will be designated to each wetland delineated within the 500-foot buffered Facility limits of disturbance.

Based upon desktop review of available information, the Application will include an analysis of mapped off-site wetlands that may be hydrologically or ecologically influenced by development of the Facility and the wetlands identified on the Facility Area. Wetlands mapping will be used to

inform an analysis of hydrological connections to offsite wetlands, including those that are state-mapped wetlands, protected by NYSDEC.

#### **4.22.2.6 Agricultural Resources**

The Application will include an analysis of the temporary and permanent impacts of the construction and operation of the facility and the interconnections on agricultural resources, including the acres of agricultural land temporarily impacted, and the number of acres of agricultural land that will be permanently converted to nonagricultural use.

### **4.22.3 Proposed Avoidance, Minimization, and Mitigation Measures**

#### **4.22.3.1 General Wildlife Habitat**

As noted in Section 4.21, Hecate Greene will develop a plan to identify the presence of invasive species and to prevent the introduction and/or spread of invasive species within areas disturbed by construction of the Facility. Elements in this plan can include:

- Identification;
- Training;
- Pre-Construction Plant Removal and Treatment;
- Inspection of Fill Sources;
- Invasive Species Vegetation Removal and Disposal;
- Washing Machinery and Equipment;
- Erosion Control; and
- Preservation and Restoration of Native Vegetation.

Mitigation options for any unavoidable impacts for wildlife habitat include:

- Restoring temporarily disturbed areas, where practicable, to comparable pre-construction contours and reseeded with native (noninvasive) as soon as practicable following the completion of construction activities; and
- Implementing a comprehensive Invasive Species Plan that outlines management measures to identify invasive species that may occur in the Facility Area, and controlling and monitoring their spread during each phase of construction.

#### **4.22.3.2 Mammals**

The Facility has been designed and will continue to be designed to reduce significant adverse impacts to wildlife. Facility infrastructure is sited away from high quality wildlife habitat and forested clearing will be minimized to the greatest extent practicable.

No significant adverse impacts to mammals are anticipated; therefore, no mitigation is proposed for mammals.

#### **4.22.3.3 Avian Resources**

The proposed Facility will continue to be designed to reduce impacts to birds. Hecate Greene will continue to assess presence of grassland birds and threatened and endangered species and if present, will evaluate design considerations and mitigation measures.

If avian resources are unavoidably impacted, Hecate Greene will consider such mitigation options as funding and implementing a pre- and post-construction study to estimate the direct and indirect effects of Facility operation as well as funding land management activities to increase grassland bird habitat. If protected grassland birds are determined to be present, mitigation plans will be developed in consultation with the NYSDEC per 6 NYCRR Part 182.

#### **4.22.3.4 State and Federal Endangered or Threatened Species**

The following conservation measures have been implemented during the design of the Facility, or will be implemented before or during construction to reduce potential bat mortality to federal and state listed bats that may be present within the vicinity of the Facility Area as identified through USFWS and NYNHP consultations (Indiana bat, northern long-eared bat, and eastern small-footed bat) as a result of the construction and operation of the Facility:

- Avoidance – the Facility design will continue to take into consideration the distribution of potential bat habitat in the Facility Area to avoid potential take of protected bats, and will continue to engage in avoiding, minimizing, or reducing placement of Facility elements in forested or wetland areas as determined in consultations with USFWS and NYSDEC,
- Avoidance –The Facility design will endeavor to time any tree cutting to the winter season, when bats would be hibernating.
- Preplanning with Agencies – Hecate Greene is currently consulting with the USFWS, USACE, and NYSDEC for potential impacts to protected bats species.



The Application will identify state and federal endangered or threatened species within the Facility Area or that could be subject to impacts from facility construction, operation, or maintenance, including incidental takings, and an endangered or threatened species mitigation plan.

- If protected grassland birds are determined to be present, the Applicant will coordinate with the NYSDEC per 16 NYCRR Part 182 and a specific mitigation plan will be developed.
- Mitigation may include creation, enhancement and/or preservation of habitat through a conservation easement or purchase in fee title.

#### **4.22.3.5 Wetlands**

The Application will identify and evaluation reasonable avoidance measures or, where impacts are unavoidable mitigation measures to be employed regarding the wetlands and adjacent areas impacts.

The Preliminary Layout of the Facility will be designed to avoid, minimize, and mitigate wetland impacts to the maximum extent practicable. Results of field delineations for Facility Areas and the 500-foot buffer will be used to guide the design. Avoidance and minimization strategies will be determined in consultation with USACE and NYSDEC, but are generally expected to include the following items:

- Avoiding cutting forested wetlands to the greatest extent practicable;
- Giving preference to existing crossings or narrow crossings when impacts are unavoidable;
- Crossing wetlands in the fewest locations possible;
- Crossing wetlands perpendicular to flow to the extent practicable;
- Restoring temporarily disturbed wetland areas to pre-construction contours and revegetating with native (noninvasive) plant material or seeds as soon as is practicable after completion of regulated activities;
- Consolidate Facility components in available areas that exclude wetlands; and
- Where Facility components must be located in wetlands, focus on lower value, isolated or non-jurisdictional wetlands.

In the Application, GIS shape files of the preliminary Facility plans including mapped and delineated state and federal wetlands. In addition, a table of state and federal wetlands will be included:

- Identifying all state-regulated wetlands, federal wetlands, streams, and environmentally sensitive areas that could potentially be impacted by the proposed Facility as depicted in preliminary design drawings or wetland delineations;
- Identifying the corresponding page number on preliminary design drawings depicting the resource;
- Including wetland delineation types, NYSDEC stream classifications, and descriptions of resources within environmentally sensitive areas;
- For each resource, explaining if the resource could reasonably be avoided; and
- Proposing site-specific actions to minimize impacts to resources that are unavoidable.

If the Facility would result in unavoidable impacts to jurisdictional wetlands, the Applicant will apply for a USACE Nationwide Permit and the Application will include mitigation plans for compensatory mitigation. Compensation for unavoidable fills in wetlands will be consolidated in one or more locations, as warranted. If required, it is anticipated that wetlands may be mitigated on-site and in-kind utilizing the periphery of the Facility Area. A compensatory mitigation plan will be prepared for any unavoidable permanent fill of wetlands or permanent conversion of forested wetland covered types to non-forested cover types. Wetlands will be mitigated in kind at a ratio to be determined in consultation with the appropriate regulatory agencies. Mitigation plans will contain sections on grading, planting, and monitoring for success of the mitigation.

#### **4.22.3.6 Agricultural Resources**

The Application will include mitigation measures to minimize the impact to agricultural resources. To accomplish this, the Co-Applicants will coordinate with NYSDAM to implement appropriate mitigation measures. Hecate Greene will evaluate areas that can be preserved as open field or hay fields and that can also provide habitat to wildlife in the area.

For unavoidable impacts to agricultural resources, the Applicant will include mitigation measures to minimize the impact to agricultural resource and will coordinate with NYSDAM to implement appropriate mitigation measures.

#### **4.22.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding terrestrial ecology and wetlands include:

- Potential impacts to wetlands and other environmental resources

- Potential impacts to wildlife
- Potential loss of wildlife habitat used by migratory birds and threatened and endangered species
- Potential impacts on migration patterns
- Potential impact (and cumulative impact associated with other proposed solar projects in the area) to grassland birds
- Potential impact to an important winter concentration area for raptors
- Potential for concentrated light to kill birds flying overhead
- Potential impact to the bee population
- Potential impact to species due to increased heat

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.22.2 and throughout this PSS.

## **4.23 WATER RESOURCES AND AQUATIC ECOLOGY - EXHIBIT 23**

This Exhibit will provide an assessment of local water resources and aquatic ecology.

### **4.23.1 Overview**

#### **4.23.1.1 Groundwater**

As noted in Section 3.8, no known sole-source aquifers occur within the Facility Area or its vicinity (USEPA 2017). Additionally, the Facility Area is not located within a NYSDEC principal aquifer (NYSDEC 2018b). Based on review of USDA NRCS data, depth to the water table throughout most of the Facility Area is shallow, less than 18 inches below the surface (NRCS 2018).

Construction activities will not likely result in surface excavation to the water table. The installation of access roads and power collection lines will be shallow in depth and will also not likely result in potential groundwater disturbance. Additional indirect groundwater impacts could result from the potential introduction of pollutants into groundwater from surface flow via natural drainage down slopes or through open excavations or diversions related to construction activities. A SWPPP will be prepared and best management practices will be utilized during construction to limit potential impacts.

No potentially significant adverse impacts are expected to groundwater quality in the Town or Village of Coxsackie. Operation of construction equipment and vehicles that require the use of diesel and gasoline fuels, lubricating oils, and cooling fluids may pose a small risk for spills. However, spills associated with these sources, should they occur, will likely be small and confined

to work sites, thus limiting the potential for infiltration into groundwater. The SWPPP will include best management practices to be utilized during construction to limit these potential impacts.

While shallow groundwater flow rates and patterns may exhibit some deviation from preconstruction conditions in the immediate area surrounding the racking systems of Facility PV panels, the Facility will likely have minimal impacts on regional groundwater recharge because of the small percentage of added impervious surface. If dewatering of excavated pits for foundations occurs, it may result in temporary minor and local lowering of the water table. Given the minor and highly localized character of these impacts, local water supply wells will not be adversely affected. The routine operation and maintenance of the Facility is anticipated to have no significant impacts to groundwater, as most of the Facility impacts are attributed to the construction phase.

#### **4.23.1.2 Surface Water**

The north portion of the Facility Area is located within the Hannacroix Creek-Hudson River HUC10 watershed (0202000604) and the south portion is located within the Saw Kill-Hudson River HUC10 watershed (0202000611). Additionally, Sleepy Hollow Lake, located approximately 0.5 miles south of the Facility Area, is the primary potable water source for residents in the Sleepy Hollow Lake housing association. The Facility Area lies within the watershed of this lake. The Facility's proposed vegetative ground cover will result in improved stormwater runoff quality for this watershed. As noted in Section 3.8, seven surface water streams exist on the Facility Area, with various associated branches and unnamed tributaries. Two unnamed tributaries of Cocksackie Creek are located within the northern portion of the Facility Area flowing north to their confluence with Cocksackie Creek. One stream bisects the north portion of the Facility Area, and one stream runs along the eastern boundary. Three unnamed tributaries traverse the southeastern portion of the Facility Area. Murderers Creek traverses the southwestern portion of the Facility Area, flowing east to west, and an unnamed tributary extends south across the southwestern portion of the Facility Area and flows into Murderers Creek. All tributaries within the Facility Area are NYSDEC Class C waters, which support fisheries and are suitable for non-contact activities. Tables 4.23-1 and 4.23-2 show streams and ponds preliminary delineated throughout the Facility Area, respectively.

**Table 4.23-1. Preliminary Stream Delineation**

Stream ID	Type	Feature Name	NYSDEC Class [Class of Receiving Waterbody]	Jurisdictional Status	Length (feet)
S-01	Intermittent	Unnamed	Unmapped (Class-C)	USACE	963.4
S-02	Intermittent	Unnamed	Unmapped (Class-C)	USACE	295.6
S-04	Intermittent	Unnamed	Unmapped (Class-C)	USACE	841.4
S-05	Perennial	Unnamed	Class-C	USACE	875.2
S-07	Intermittent	Unnamed	Unmapped (Class-C)	USACE	82.6
S-08	Ephemeral	Unnamed	Unmapped (Class-C)	USACE	176.4
S-09	Intermittent	Unnamed	Unmapped (Class-C)	USACE	55.4
S-10	Intermittent	Unnamed	Unmapped (Class-C)	USACE	155.5
S-11	Intermittent	Unnamed	Unmapped (Class-C)	USACE	2,699.4
S-12	Intermittent	Unnamed	Unmapped (Class-C)	USACE	72.6
S-13	Intermittent	Unnamed	Unmapped (Class-C)	USACE	20.2
S-14	Intermittent	Unnamed	Unmapped (Class-C)	USACE	217.2
S-16	Intermittent	Unnamed	Unmapped (Class-C)	USACE	122.2

Stream ID	Type	Feature Name	NYSDEC Class [Class of Receiving Waterbody]	Jurisdictional Status	Length (feet)
S-17	Intermittent	Unnamed	Unmapped (Class-C)	USACE	231.6
S100	Ephemeral	Unnamed	Unmapped (Class-C)	USACE	132.7
S101-1	Ephemeral	Unnamed	Unmapped (Class-C)	USACE	2,264.8
S101-2/3	Perennial	Murderers Creek	Class-C	USACE	3,983.5
S200	Ephemeral	Unnamed	Unmapped (Class-C)	USACE	132.3
<b>Total</b>					<b>13,322.0</b>

**Table 4.23-2. Preliminary Pond Delineation**

Stream ID	Type	Feature Name	Jurisdictional Status	Area (acres)
S-06	Perennial	Unnamed	USACE	0.98
S-08	Perennial	Unnamed	USACE	0.36
<b>Total</b>				<b>1.34</b>

Direct impacts to surface waters will be minimal and are anticipated in areas where temporary and permanent stream crossings are necessary to facilitate access during construction and operation. In these areas either temporary or permanent culverts will be installed. Potential indirect impacts to surface water may result from sediment-, silt- or pollutant- laden surface runoff associated with vegetation clearing, limited grading, construction access, access roads, underground collection lines, and other ancillary facilities.

#### **4.23.1.3 Stormwater**

As noted in Section 3.3, bedrock may be exposed within the Facility Area along ridges (USDA 1993). Based on review of USDA NRCS data, depth to restrictive feature ranges from 10 inches to greater than 80 inches below the surface throughout the Facility Area (NRCS 2018).

While distinct topographic and local elevation changes are minor within the Facility Area, there is a direct influence of these features on stormwater runoff. The soils within the Facility Area contain relatively high amounts of clays and silts. Fine soil materials such as these inhibit permeation of stormwater. The low permeability of the soils within the Facility Area also tends to contribute to overland flow. Precipitation in the Facility Area is either absorbed into the ground or is transported via overland flow into numerous drainage channels, which typically connect to wetlands or streams in the Facility Area, which are primarily limited to the forested areas within the Facility Area and are associated lower lying areas. During construction, stormwater may potentially convey sediment and silt laden runoff to down-gradient surface waters or potentially pollutant laden runoff to groundwater or down-gradient surface waters. A draft SWPPP will be included within the Application, as will design drawings of any stormwater management measures proposed, as applicable. Additionally, the Facility's proposed vegetative ground cover will result in an improvement in stormwater runoff quality.

#### **4.23.1.4 Aquatic and Invasive Species**

Aquatic species were not observed during the preliminary field delineation of stream resources with the Facility Area. Two streams and two ponds within the Facility Area were delineated as perennial. Based on review of the New York State Amphibian and Reptile Atlas Project, six salamander species occur in the project vicinity:

- Blue spotted salamander (*Ambystoma laterale*);
- Common mudpuppy (*Necturus maculosus*);
- Jefferson salamander (*Ambystoma jeffersonianum*);
- Northern red-backed salamander (*Plethodon cinereus*);
- Red-spotted newt (*Notophthalmus viridescens*); and
- Spotted salamander (*Ambystoma maculatum*).

Two species of salamanders in New York, the Common Mudpuppy and the red-spotted newt spend their entire lives in water bodies. The blue-spotted, Jefferson, and spotted, salamanders belong to a family known as the mole salamanders, because they spend most of their adult life

underground, except for a brief early spring breeding period when they emerge to breed in vernal pools. The remainder are either streamside or woodland salamanders.

Invasive plant species identified during the completed wetland delineations include:

- Reed canary grass (*Phalaris arundinacea*);
- Multi-flora rose (*Rosa multiflora*);
- Common buckthorn (*Rhamnus cathartica*)
- Common reed (*Phragmites australis*); and
- Purple loosestrife (*Lythrum salicaria*).

Construction activities may pose a risk of introducing and/or spreading invasive species by transferring seeds to the site that may be mixed in topsoil, gravel, and straw or moving plant material to new locations in the Facility Area by construction equipment. An Invasive Species Plan will be developed specific to the Facility construction activities for identifying the presence of invasive species in spoil material and to prevent the introduction and/or spread of invasive species by the transport of fill material to or from the Facility Area.

#### **4.23.1.5 Cooling Water**

The proposed Facility does not involve the use of cooling water. Therefore, information related to cooling water systems, intake, and discharge will not be included in the Application.

### **4.23.2 Extent of Quality of Information Required**

Information regarding water resources will be supplemented with a compilation of existing federal and state agency data sources, and a desktop geo-spatial analysis for the Facility Area. These data will be used to identify hydrogeologic conditions such as the local groundwater elevation, quality, and use; the presence and extent of surface water resources, aquatic species, and potential occurrence of invasive species in the Facility Area; and determine the significance of Facility-related impacts to these resources.

#### **4.23.2.1 Groundwater**

To identify existing water wells in the area, a Freedom of Information Law request letter will be sent to the NYSDEC and Greene County to request any information pertaining to groundwater wells (including location, construction logs, depths, and descriptions of encountered bedrock) within the Facility Area. The Application will include information received from the NYSDEC and Greene County on water wells, including location, depth, yield, and use, if such data are available.



The Application will include publicly available information on groundwater aquifers and groundwater recharge areas, groundwater flow direction, groundwater quality, and the location, depth, yield and use of all public and private groundwater wells or other points of extraction of groundwater, and including delineation of well head and aquifer protection zones.

Based on the proposed Facility layout, there will only be a very small increase in impervious cover and, thus, the Facility should have little impact on groundwater recharge or surface water runoff rates. During construction, erosion and sedimentation control measures will be used to reduce sediment runoff from construction sites. The Application will also include an analysis of karst geologic formations within the Facility Area, to the extent present, as described in Section 4.21, and the SWPPP will take into consideration karst features (if any are present) in relation to the drainage patterns.

#### **4.23.2.2 Surface Water**

Surface waters located within the Facility Area were delineated in November and December 2016 and confirmed in September 2017 in conjunction with wetland delineations. Surface waters were delineated based on the USACE *Jurisdictional Determination Form Instruction Guidebook*, USEPA and USACE joint guidance regarding CWA jurisdiction after Rapanos, and joint guidance on identifying waters protected by CWA (USEPA/USACE 2007, 2008, 2011). Hecate Greene will field delineate surface waters within 500 feet of the areas to be disturbed by construction. For adjacent properties without access, desktop delineations will be completed based upon analysis and interpretation of available remote-sensing and GIS data including NYSDEC Stream maps and USGS National Hydrography Dataset survey data.

A map will be prepared identifying all surface waters within the 2-mile Study Area, including intermittent streams based on field and desktop data. Each mapped stream will be supplemented with a description of the New York State listed Water Classification and Standards physical water quality parameters, flow, biological aquatic resource characteristics, and other characteristics as applicable. Any downstream surface water drinking-water supply intakes within 1 mile of the Facility Area will be identified and described.

#### **4.23.2.3 Stormwater**

As noted in Section 4.21, prior to construction, a SPDES General Permit for Stormwater Discharges Associated with Construction Activities (GP-0-15.002) will be obtained. This permit will include a SWPPP to identify potential sources of sediment and other pollutants associated with the Facility layout that may affect the quality of stormwater discharge. A draft SWPPP will be

included within the Application, as will design drawings of any stormwater management measures proposed, as applicable.

#### **4.23.2.4 Aquatic Species and Invasive Species**

The Co-Applicants will consult with the NYSDEC for data on fish species that have been caught or identified in the streams associated with within the Facility Area. The data will be compared to the state and federal databases of threatened and endangered species and included in the Application. To determine impacts to salamander species, the Co-Applicants will characterize habitats to be disturbed by construction and operation of the Facility and identify impacts to the species likely to be present.

Aquatic invasive species identified by the NYSDEC (NYSDEC 2018c) and the Capital-Mohawk Partnerships for Regional Invasive Species Management (PRISM), which are observed during delineations and field investigations, will be documented and included in the Application. A comprehensive inventory of aquatic species or aquatic invasive species is not proposed to be included.

### **4.23.3 Proposed Avoidance, Minimization, and Mitigation Measures**

#### **4.23.3.1 Groundwater Avoidance, Minimization, and Mitigation Measures**

During construction, erosion and sedimentation control measures will be used to reduce sediment runoff from construction sites. Beyond erosion and sedimentation control measures to be outlined in the SWPPP, no additional avoidance, minimization or mitigation is anticipated to be required.

Operation of the Facility is not anticipated to result in any significant impacts to groundwater quality or quantity, drinking water supplies, or aquifer protection zones. Construction of the substation foundation, roadways, and underground collection lines are expected to be relatively shallow, and are not anticipated to intercept groundwater within the surrounding aquifers. The Facility will add only small areas of impervious surface. Nevertheless, the minimal potential for groundwater contamination resulting from Facility construction or operation will be mitigated by:

- Requiring construction contractors to use appropriate best management practices to prevent spills; and
- Complying with applicable laws related to the use of hazardous materials, and the implementation of the ERP that addresses prevention, containment and removal of spills.

In addition, the Application will include a plan for minimizing impacts to wells in the area including:

- A complete inventory of all identified wells within 500 feet of any areas of ground disturbance;
- Information on the location, depth and usage patterns of existing public and private wells, as available from the well owners; and
- Complaint notification and resolution procedures, including 24-hour contact information.

The Co-Applicants will perform a detailed assessment of soils, topographic features, and groundwater characteristics in order to anticipate whether dewatering will be required. Areas where existing soils are generally characterized as having low infiltration rates and low topographic relief will be identified. Groundwater data, including groundwater depth, quality and flow direction, will be obtained during the advancement of geotechnical test borings within the Facility Area. Where dewatering is anticipated, the Application will include a detailed description of the proposed dewatering practices and a demonstration of how dewatering will avoid and/or minimize flooding, surface water runoff, and transport of fine-grained soils into existing surface water bodies. Any locations where permanent dewatering will be required will be identified and permanent dewatering practices will be described in detail.

Hecate Greene will also prepare an SPCC Plan for construction activities to minimize the potential for unintended releases of petroleum and other hazardous chemicals. Best Management Practices (BMP) will be implemented during construction to prevent and contain spills. It is not anticipated that the Facility will require the on-site storage or disposal of large volumes of any substances subject to regulation under the State of New York's chemical and petroleum bulk storage programs (e.g., fuel oil, petroleum, etc.) or any substances subject to regulation under local laws. However, this will be confirmed in the Application.

The risks of potential water table reduction or pathway alteration due to dewatering will be avoided initially through pre-construction surveys and studies. Depth to water table will be established by conducting pre-construction geotechnical studies. Construction of foundations presents limited risk to the continued operation of private wells due to limited proximity. As previously mentioned, the solar arrays will be located approximately 200 feet away from existing, occupied residences, making it likely there will be no impact on active, private wells (which tend to be located in close proximity to homes).

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#### **4.23.3.2 Surface Water Avoidance, Minimization, and Mitigation Measures**

Potential impacts to surface waters will be minimal and will only occur during the construction of the Facility. Results of field delineations for the Facility Area will be used to inform approaches for further avoidance, minimization, and/or mitigation of impacts, such as:

- Crossing jurisdictional water at locations that reduce impacts;
- Following BMPs, such as installing erosion control measures to control sediment that could potentially flow offsite;
- Limiting vegetation clearing near stream banks;
- Giving preference to existing crossings or narrow crossings when impacts are unavoidable; and
- Establishing “Restricted Activities Areas” within 100 feet surrounding essential construction, which will include:
  - No storage of construction debris within the area;
  - No equipment refueling or washing within the area;
  - Limited use and strict adherence to manufacturer’s instructions for the application of herbicides;
  - No storage of any chemical substances, combustible fuels, or petroleum products within the area; and
  - No deposition of slash within or adjacent to a wetland or waterbody.

The Co-Applicants will perform a comparative evaluation of viable crossing methods of NYS Protected Streams (if applicable) and Class C streams, New York State freshwater wetlands and adjacent areas, and USACE regulated wetlands for all locations traversed by collection lines, transmission lines, or other Facility components. The Application will include maps showing the locations of these crossings and identify the anticipated crossing methods. GIS shapefiles will also be provided to the DPS for the proposed crossings, indicating the method of crossing at each location. This Exhibit will also discuss the proposed crossing locations and methods and evaluate how impacts to streams and wetlands are minimized to the maximum extent practicable.

The location of all proposed horizontal direction drilling (HDD) operations within 500 feet of surface waters, wetlands or existing water supply wells will be identified in the Application. In addition, a description of mitigation measures to minimize impacts of HDD operations on surface water quality and the hydrologic flow patterns and groundwater quality of the shallow aquifer will be included.

While no significant adverse impacts to surface waters are anticipated, details of mitigation measures for unavoidable impacts will be developed and potential mitigation measures will be developed in conjunction with the NYSDEC and USACE. This Mitigation Plan will include the proposed location and nature of the proposed stream mitigation as well as a proposed monitoring program.

#### **4.23.3.3 Stormwater Avoidance, Minimization, and Mitigation Measures**

Identifying potential sources of sediment and other pollutants that affect the quality of stormwater discharge, and implementing measures identified in the SWPPP will avoid and minimize impacts associated with stormwater discharge during construction of the Facility.

No significant adverse impacts resulting from discharge of stormwater are anticipated; therefore, no specific mitigation is proposed. BMPs used for Facility construction and operation to prevent potential adverse impacts to water quality will be described in the SWPPP and will conform to the most current version of the technical standard, New York State Standards and Specifications for Erosion and Sediment Control.

#### **4.23.3.4 Aquatic Species and Invasive Species Avoidance, Minimization, and Mitigation Measures**

Impacts to aquatic species are not anticipated; however, implementation of measures to avoid and minimize impacts to surface water resources will assist in minimizing unanticipated impacts to aquatic species.

An Invasive Species Management Plan will be prepared to identify specific invasive species that may occur in the Facility Area and outline management measures that will be implemented. Hecate Greene will ensure the Invasive Species Management Plan is employed throughout Facility development.

Since no significant adverse impacts to fish, amphibians, or reptiles are anticipated, no specific mitigation for aquatic species is proposed. Post-construction management of invasive species may be employed in the Facility Area to manage invasive plant communities identified by NYSDEC. Management strategies will be limited to those outlined in the Invasive Species Management Plan. If additional invasive species are discovered in the Facility Area, Hecate Greene will consult with NYSDEC regarding the most effective means of control.

#### **4.23.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding water resources include:

- Potential impacts to wetlands and other environmental resources
- Potential impacts on the municipal water system
- Potential impacts to underlying groundwater
- Potential impacts to the Sleepy Hollow Lake watershed
- Potential impacts on stormwater run-off

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.23.5 and throughout this PSS.

#### **4.23.5 Proposed Studies**

##### **4.23.5.1 Groundwater**

With regard to groundwater, the following information will be developed to evaluate pre-construction mitigation of potential impacts:

- (1) Hydrologic information reporting depths to high groundwater and bedrock, including a site map showing depth to high groundwater and bedrock in increments appropriate for the Facility.
- (2) A map based on publicly available information showing all areas within a 2-mile Study Area delineating all groundwater aquifers and groundwater recharge areas, and identifying groundwater flow direction, groundwater quality, and the location, depth, yield and use of all public and private groundwater wells or other points of extraction of groundwater, and including delineation of well head and aquifer protection zones.
- (3) An analysis and evaluation of potential impacts (during normal and drought conditions) from the construction and/or operation of the facility on drinking water supplies, groundwater quality and quantity in the facility area, including potential impacts on public and private water supplies, including active, private wells within a 1-mile radius of the Facility Area, and wellhead and aquifer protection zones.

##### **4.23.5.2 Surface Water**

Consistent with the Article 10 regulations, field delineations were performed for all jurisdictional surface waters within the Facility Area where unmapped surface waters are identified within the

Facility Area. As noted in Section 4.23.2.2, surface waters within 500 feet of the areas to be disturbed will be field delineated or where property access is not obtainable, desktop delineated. Stream data collection will involve recording the segment of the surface water that is located within the Facility Area, including up to an additional 20 feet outside the Facility Area with GPS to ensure adequate field-data collection. The top of bank will be recorded for streams greater than 5 feet in width and the centerline recorded for streams less than 5 feet in width. Portions of the Facility Area inaccessible during the field effort will be desktop delineated. The desktop delineation will involve review of recent high-resolution aerial photography obtained during April 2011 overlaid with 2-foot contour lines. This information will be supplemented with the location of wetlands and streams derived from state and federal sources, field delineated wetlands and streams, and soils information to digitize an accurate representation of field conditions. In addition, all surface waters, including intermittent streams, within a 2-mile Study Area will be identified and mapped.

#### **4.23.5.3 Stormwater**

As noted in Section 4.23.2.3, a SWPPP will be prepared to address stormwater discharges related to the Facility layout. The SWPPP will comply with SPDES requirements for the General Permit for Stormwater Discharges Associated with Construction Activities (GP-0-15.002). This goal will be met by identifying potential sources of sediment and other pollutants that affect the quality of stormwater discharge, and by planning and implementing measures to meet the following objectives:

- Reduction or elimination of erosion and loading of sediment and other pollutants that affect the quality of stormwater discharges to water bodies during construction;
- Control of the impact of stormwater runoff on the water quality of the receiving waters;
- Control of the increased volume and peak rate of runoff during and after construction;
- Maintenance of stormwater controls during and after completion of construction;
- Waste and material management for construction activities;
- Implementation of site inspections, monitoring and personnel training; and
- Identification of any post-construction measures that will be required.

#### **4.23.5.4 Aquatic Species and Invasive Species**

Available data from the NYS Amphibian and Reptile Atlas Project and NYNHP unusual habitats or significant natural communities that could support state or federally listed endangered or threatened species or species of special concern will be compiled and evaluated. Information on the presence and distribution of aquatic species and potential suitable habitat identified in the



Facility Area will be compiled and an analysis of these data will be completed to assess potential impacts to aquatic species and their habitat.

## **4.24 VISUAL - EXHIBIT 24**

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Hecate Greene will develop a visual impact assessment (VIA) to determine the extent and assess the significance of Facility visibility. Hecate Greene will complete the VIA in compliance with the requirements of Section 1001.24 (Visual Impacts) of the Article 10 regulations, and with the *NYSDEC Policy Assessing and Mitigating Visual Impacts (DEP-00-2) (2000)*. The sections below describe potentially significant adverse visual impacts, studies that will be completed to identify anticipated adverse visual impacts, and potential mitigation measures for visual impacts.

### **4.24.1 Overview**

According to NYSDEC Policy DEP-00-2 *Assessing and Mitigating Visual Impacts*, a significant impact may occur if one or more sensitive places of statewide concern or local concern are located within the viewshed of the Facility. NYSDEC Policy DEP-00-2 states:

*“Aesthetic impact occurs when there is a detrimental effect on the perceived beauty of a place or structure. Significant aesthetic impacts are those that may cause a diminishment of the public enjoyment and appreciation of an inventoried resource, or one that impairs the character or quality of such a place.”*

Public enjoyment of a scenic resource is subjective and highly dependent on the viewer's perception of beauty and scenery. Addition of the Facility components into a view may be detrimental to one viewer's enjoyment of a location, but may be negligible or interesting to a different viewer. Therefore, a process using the concept of “contrast” based on the United States Bureau of Land Management's (BLM) Visual Resource Management System (VRM) will be used to objectively measure potential visual impacts to the inventoried sensitive aesthetic resources (BLM 1986; BLM 1984). The degree of contrast introduced to a particular viewpoint by Facility components, in combination with the level of sensitivity of that viewpoint, will determine the significance of visual impacts. The BLM VRM system is widely used for a variety of projects and, with some modifications, has been applied successfully to projects that do not occur on lands under the jurisdiction of the BLM.

The potential for significant adverse impacts is proposed to be limited to areas within the 5-mile visual study area where views of the Facility are not blocked by intervening topography, vegetation, and developments. The sections below discuss anticipated appearance of the



proposed facilities, how the 5-mile visual study area was established, and how areas with potential views of the Facility will be identified using viewshed mapping.

#### **4.24.1.1 Appearance of Proposed Facilities**

Visible facilities will include geometric-shaped blocks containing rows of approximately 8-foot tall single-axis tracking solar panels oriented on a north-south axis, access roads, two substations, the approximately 8-foot tall perimeter chain-link fence, and electrical equipment associated with the interconnection (Figure 3). The tallest structures among the Facility array are expected to be approximately 8 to 10 feet tall. Hecate Greene may also evaluate the use of taller structures, up to approximately 15 feet, to optimize the Facility's layout. The collection cable system will be predominantly underground to avoid shading the PV panels, however the Co-Applicants may consider overhead lines (approximately 40 feet high wood or steel structures) for a portion of the collection system that may be located on site and along tree lines or for short distances. The electrical equipment located within the two proposed substations will be traditional open-air substation configuration with most equipment below 20 feet height and select structures (e.g. lightning protection, cable dead-end structures) may be up to 40 feet. Hecate Greene plans to maintain sections of natural vegetation along drainages, wetlands, and in forested habitats.

Glare is being avoided or minimized to the maximum extent practicable. Glare is defined as a continuous source of bright light, and can be produced by indirect reflection of sunlight or the reflection of the bright sky surrounding the sun (FAA 2010). PV panels are designed to absorb rather than reflect solar radiation, and are commonly installed at or adjacent to airports and on residences. Glare may result if the angle of the sun is reflected from the PV panels or associated infrastructure, and directed towards a viewer; however, the PV panels will track the sun such that any glare is reflected back in the direction of the sun. The PV panels will also have anti-reflective coating to minimize glare. For these reasons, glare will not be addressed in detail in the VIA or the Application.

Lighting will be limited to security lighting at the substations and entrances. As a security precaution, the Co-Applicants may consider motion detection lighting at select location along the fence. Selection of lighting locations type of lighting will take into consideration potential off-site receptors. Light fixtures will be shielded and downward-facing to minimize off-site lighting impacts. Security lighting will not appear dissimilar to other proximate sources of light in the valley, which include industrial developments, schools, residences, businesses, and street lights along roadways.

#### **4.24.1.2 Proposed Visual Study Area**

The VIA will identify sensitive aesthetic resources from which Facility components would be visible, and evaluate the potential impacts from the proposed Facility. Facility components will be visible from surrounding viewpoints where not obscured by intervening topography, vegetation, developments, or distance. The VIA will focus on the visual study area, which incorporates areas within 5 miles of the Facility boundary. The visual study area was established based on the definition of a “Study Area” as provided in Section 1001.2 (ar) of the Article 10 regulations and guidance provided in NYSDEC Policy DEP-002.

- Guidance provided in Section 1001.2 (ar) of the Article 10 regulations states: “An area generally related to the nature of the technology and the setting of the proposed site. In highly urbanized areas, the study area may be limited to a one-mile radius from the property boundaries of the facility site, interconnections, and alternative location sites. For large facilities or wind power facilities with components spread across a rural landscape, the study area shall generally include the area within a radius of at least five miles from all generating facility components, interconnections and related facilities and alternative location sites. For facilities in areas of significant resource concerns, the size of a study area shall be configured to address specific features or resource issues.”
- Guidance provided in NYSDEC Policy DEP-00-2: “With respect to determining the radius of the impact area to be analyzed, there has been a general guideline for large actions that it is usually “safe” to use five miles (five miles is still largely considered “background,” i.e. distances at which most activities are not a point of interest to the casual observer).”

Hecate Greene anticipates that the visibility of the facility will generally be limited to locations close or adjacent to the facility given the short stature of the predominant Facility components, with the tallest components standing only 8 to 10 feet above ground level; the location of the proposed Facility in a valley; and the forested landscape.

#### **4.24.1.3 Viewshed Analysis**

Hecate Greene conducted a digital viewshed analysis to evaluate the potential visibility of the PV panels based on the height of the PV panel and screening provided by topography as well as vegetation. This analysis was conducted using ESRI ArcGIS GIS software with the Spatial Analyst extension to process 10-meter Digital Elevation Models based on the National Elevation Dataset, forested land cover (Homer et al. 2015) and the height of the PV modules above ground. The topographic viewshed assumed “bare earth” conditions and was developed from the proposed Facility Area boundary looking out to determine areas with potential visibility. NLCD land cover

data were then used to determine where forested areas would obscure the Facility components using average heights of tree species based on forest type (deciduous forest = 61.5 feet; evergreen forest = 52.5 feet; and mixed forest = 57 feet). The resulting viewshed map shows areas with potential visibility based on screening by topography (i.e. bare earth) and vegetation (i.e. forested) (Figure 7). It is important to note that “seen” areas identified in the viewshed analyses do not necessarily indicate that the Facility will be visible or noticeable to the casual observer. “Seen” areas indicate that some portion of the Facility is potentially visible from that point because there is a direct, unobstructed line-of-sight between the point and some location within the Facility Area. Other factors such as distance, color, and the low profiles of the panels will also affect visibility and noticeability to different viewers. The viewshed analysis will be updated for the Application if the Facility layout is changed, and a field reconnaissance will be conducted to verify potential visibility from sensitive viewpoints.

The proposed Facility is located in a valley at an elevation ranging from approximately 105 feet amsl to approximately 160 feet amsl. Elevation increases gradually to the west and east; ridgelines of up to approximately 700 feet amsl lie west of the Facility Area, which serves to block most views of the Facility Area from the west (Figure 7). To the east, elevations gradually rise to a peak of approximately 200 feet amsl before dropping to the Hudson River, located approximately 0.6 miles east of the Facility Area. Topography blocks most views from the Hudson River and eastward, until elevations exceed those found along the western bank of the Hudson River (Figure 7). Generally, topography within the Study Area is gently rolling and forested, which serves to further obscure views of the Facility Area even at close distances.

#### **4.24.2 Proposed Studies**

Hecate Greene will complete the VIA and all supporting analysis in compliance with the requirements of Section 1001.24 (Visual Impacts) of the Article 10 regulations, and with *NYSDEC Policy Assessing and Mitigating Visual Impacts (DEP-00-2) (2000)*. Components of the VIA will include the following:

- 1) Desktop study to inventory visually sensitive resources and determine potential visibility based on digital viewshed analysis.
- 2) Coordination with state and local agencies to confirm inventory of visually sensitive resources. In compliance with Section 1001.24(b)(4) of the Article 10 regulations, Hecate Greene will correspond with state agencies, municipal planning representatives, and other stakeholders to confirm the list of visually sensitive viewpoints and resources that will be addressed in the Application, and to seek feedback on locations for

simulations. Hecate Greene will send the letter describing the proposed Facility and the Article 10 process, a map of the visual study area, a preliminary inventory of visually sensitive resources, a description of next steps including the process for selecting simulation locations, and a request for feedback regarding visually sensitive resources and simulation locations.

- 3) Field visit to confirm visibility and conduct site photography for visual simulations. Hecate Greene will conduct a field visit to confirm visibility of the Facility from visually sensitive resources as indicated by digital viewshed mapping. During the field visit, photographs will be taken as a record of findings, and to be used in photographic simulations. The existing landscape will be surveyed and any cumulative visual issues identified.
- 4) Develop comprehensive VIA document. The VIA will present findings of the desktop study, the digital viewshed analysis, and the field visit. The VIA will also present photographic simulations, discuss potential contrast introduced by the Facility to sensitive viewpoints from which the Facility would be visible, and evaluate the degree of significance of visual impacts. The VIA will also include an assessment of cumulative impacts of the Facility in consideration with other proposed projects in the viewshed, and will proposed visual impact mitigation measures as appropriate.

The VIA will contain all information required by Section 1001.24 (Visual Impacts) of the Article 10 regulations, and with *NYSDEC Policy Assessing and Mitigating Visual Impacts (DEP-00-2) (2000)*; major sections of the VIA are described in the following subsections.

#### **4.24.2.1 Character and Visual Quality of the Existing Landscape**

The VIA will include a discussion of the character and visual quality of the existing landscape within the 5-mile visual study area. The VIA will identify Landscape Similarity Zones (LSZs) within the 5-mile visual study area to describe the landscape in greater detail. LSZs are delineated based on shared characteristics including but not limited to scenic character, topography, vegetation, land use patterns, and water features. The LSZs will be shown on maps in the VIA and will provide a basis for discussing the visual quality of the landscape.

#### **4.24.2.2 Visibility of the Facility – Operational Characteristics**

The VIA will include an analysis of the visibility of the Facility, focusing on operational characteristics. Digital viewshed mapping will be used to determine the visibility of above-ground facilities including but not limited to the solar panels, the Facility substation, electrical

interconnection equipment, and access roads. Two digital viewshed maps will be completed; one showing the potential visibility of Facility components based on topographic screening (bare earth viewshed), and one showing the potential visibility of Facility components based on topographic and vegetative screening (vegetated viewshed). The viewshed maps will show relevant distance zones; foreground (up to 0.5-mile from the viewer), middle ground (0.5 mile to 4 miles from the foreground), and background (4 miles from the viewer to the horizon) (United States Forest Service [USFS] 1995). The viewshed maps will also show locations of potentially sensitive viewpoints in relation to areas from which the Facility will be visible and distance zones. Line-of-sight analyses will be performed for important viewpoints to confirm potential visibility.

Field verification will be employed to confirm visibility of the proposed Facility from sensitive viewpoints. Photographs will be taken to record findings, using a single lens reflex camera (dSLR). The camera will be equipped with a “normal lens,” which means it most closely approximates the field of vision of the human eye. In photographs taken with this lens, the size and scale of objects in the background and foreground are depicted in ratio and are not distorted. The resolution of the photograph will be suitable for use in small and large format page layouts. Time, date, and weather conditions will be recorded for each viewpoint, and viewpoint locations will be recorded using a GPS unit. In addition to recording field findings, the photographs will be used to develop visual simulations.

#### **4.24.2.3 Visibility of all Aboveground Interconnections and Roadways**

The VIA will also discuss visibility of all other aboveground facilities including access roads, the Facility substations, any other electrical equipment required, and fences (anticipated to be a 8-foot high chain-link fence). These features will be shown on visual simulations prepared as part of the VIA.

#### **4.24.2.4 Appearance of the Facility upon Completion/Representative Views**

A select number of visual simulations will be developed to show the anticipated appearance of the facility upon completion. Locations of visual simulations will be selected by Hecate Greene after conferring with state agencies, municipal planning representatives, and other stakeholders as described in Section 4.24.2. Simulation locations will be selected from areas that provide unobstructed views of Facility components, represent sensitive viewpoints as identified by the NYSDEC policy or stakeholders, and represent a variety of views from different elevations, distances, lighting conditions, and LSZ.

Photographic simulations will be developed using Autodesk 3ds Max® 3D modeling and rendering software. An accurate, scaled, detailed three-dimensional (3D) model of the proposed Facility components will be created based on the engineering plans and specifications included in the Application. To create the model, photograph location data captured by the GPS device will be transferred to GIS software, where it will be combined with GIS data of the preliminary layout of the Facility. A map showing these data will then be exported at true scale and imported into the 3D modeling software to create a 3D model of the Facility Area. GIS data will also be used to generate a terrain model of the Facility's study area. The Facility 3D model will be placed into the simulated landscape in real-world coordinates to ensure spatial accuracy.

To create the visual simulations, the location data captured by the GPS device is transferred to design software that combines the GIS data and the 3D model of the Facility. The views from the digital photographs are matched in the 3D modelling software using virtual cameras with the same focal length and field-of-view as the dSLR camera settings used to capture the photographs. Date- and time-specific lighting is added into the 3D model and then renderings are created for each simulation. The computer-generated renderings are then overlaid on the site photography and any necessary modifications to the existing landscape are made to the images. The visual simulations will be presented on a page layout that shows the visual simulation along with an existing conditions photograph, location map, and information regarding the photography and simulated conditions.

#### **4.24.2.5 Lighting**

The VIA will describe lighting associated with the proposed Facility, the visual impact created by proposed lighting, and any proposed mitigation measures. Nighttime lighting will be limited to the proposed entrances, two substations, and possibly motion detection lighting at select locations along fence if needed to improve security. No nighttime lighting is proposed as part of the PV arrays. Mitigation measures are anticipated to include considering off-site receptors when locating lights and choosing type of light, and use of security lighting and fixtures that are shielded and/or downward facing to minimize light intrusion off-site.

#### **4.24.2.6 Nature and Degree of Visual Change from Construction**

The VIA will discuss visual impacts as they relate to construction activities. Minor and temporary visual impacts are anticipated during construction, and are anticipated to include views of construction equipment, ground disturbance activities, construction worker activity, construction materials, vegetation removal, and dust.

#### **4.24.2.7 Nature and Degree of Visual Change from Operation**

Long-term visual impacts will include addition of the PV panels, access roads, and Facility substations to the landscape where they are visible. Visual simulations (as described in Section 4.24.3.4) will be utilized to illustrate visual change from selected sensitive viewpoints. Photographs of existing conditions will be compared with the simulations to determine how the Facility introduces contrasting elements into the landscape.

The level of visual contrast introduced by a project is measured by changes in form, line, color, and texture. In the context of the proposed Facility, existing landscape scenery is defined by the visual characteristics (form, line, color, and texture) associated with the landform, vegetation, and existing facilities within and adjacent to the Facility Area. Visual contrast will be assessed considering (1) landscape contrast – landform modifications that are necessary to prepare the Facility for access and/or construction, and the removal of vegetation to construct and maintain the facilities; and (2) structure contrast – the introduction of new, aboveground facilities into the landscape. A visual resource specialist trained in the BLM VRM process will utilize a modified version of the VRM Contrast Rating Form to assess contrast from each sensitive viewpoint.

The term “sensitive viewers” refers to specific user groups associated with various land uses that have a sensitivity to landscape change and, therefore, could be adversely affected by the construction and operation of the proposed Facility. The sensitivity of viewers at each viewpoint is based on the following criteria: type of use; volume of use; duration of use; expected concern for aesthetics; and special status or designation. The expected response of sensitive viewers will be assessed based upon (1) level of visual contrast (i.e., form, line, color, and texture), (2) distance from the Facility, (3) viewing condition (i.e., level, inferior, or superior), (4) visibility (screened, backdropped, or skylined), and (5) expected level of viewer sensitivity. These factors will be combined to determine the level of significant impact for sensitive viewpoints.

#### **4.24.2.8 Related Operational Effects of Facility**

Visual effects of the Facility will be limited to visibility of the PV panels and associated components: No plumes, shading, flare or other visual impacts are anticipated during operation of the Facility. Glare is not anticipated to be a significant concern for the PV panels, as discussed in Section 4.24.1 of this PSS.

#### **4.24.2.9 Proposed Mitigation**

Mitigation measures that will be considered include those identified in NYSDEC Policy DEP-00-2 *Assessing and Mitigating Visual Impacts*, which include professional design and siting, screening,



relocation, camouflage, low profile, use of non-specular materials, lighting, maintenance and setbacks (offsets). The professional design and siting that Hecate Greene will incorporate into the Facility layout serves as visual mitigation. As shown in Figure 3, swaths of forest, wetlands, and drainages have been preserved, which will serve to visually break up the sections of PV panels with natural landscapes and soften the overall appearance of the Facility. In addition, the Facility is located in a valley that contains mixed uses, including existing institutional and agricultural development, surrounded by forested landscapes, blocking the Facility from many views outside the valley including from the Hudson River and areas west and south of the Facility Area (Figure 7). The Application will discuss these factors, and the feasibility and possible effects of additional mitigation measures if proposed to mitigate potentially significant impacts from specific sites. Screening is a measure commonly utilized for solar facilities, and may be accomplished by fencing, berming, or vegetation. The type of screening recommended would depend on the sensitivity of the viewpoint, the sensitivity of potential viewers, and the Facility components to be screened (PV panels, electrical equipment, or other aboveground facilities).

#### **4.24.2.10 Description of All Visual Resources that would be Affected by the Facility**

According to NYSDEC Policy DEP-00-2 *Assessing and Mitigating Visual Impacts*, the VIA must identify significant scenic and aesthetic resources within the 5-mile visual study area, including the following types of resources, as applicable:

- Properties on or eligible for inclusion in the National or State Register of Historic Places;
- State Parks;
- Urban Cultural Parks;
- State Forest Preserves;
- National Wildlife Refuges, State Game Refuges and State Wildlife Management Areas; National Natural Landmarks;
- Sites of the National Park System, including Recreation Areas, Seashores, and Forests;
- National or State Wild, Scenic or Recreational Rivers;
- Sites, areas, lakes, reservoirs or highways designated or eligible for designation as scenic;
- Scenic Areas of Statewide Significance (SASS);
- State or federally-designated trail, or one proposed for designation;
- Adirondack Park Scenic Vistas;
- State Nature and Historic Preserve Areas;
- Palisades Park; and



- Bond Act Properties purchased under Exceptional Scenic Beauty or Open Space Category.

In addition, the Article 10 regulations (Section 1001.24.b.3) states that sensitive viewing areas “shall include recreational areas, residences, businesses, historic sites (listed or eligible for listing on the State or National Register of Historic Places), and travelers (interstate or other highway users).”

A preliminary list of sites of aesthetic resources/sensitive viewing areas within the 5-mile visual study area for the proposed Facility include those listed in Table 4.24-1. It is important to note that cultural resource investigations for the Facility are not yet complete, and may identify additional properties eligible for the National or State Registers of Historic Places. If additional eligible properties are identified, they will be considered in the VIA for potential visual impacts.

The topographic viewshed analysis indicates that views of the Facility Area would be obscured by topography and/or vegetation at most of the aesthetic resources identified in Table 4.24-1. Locations where the digital viewshed analysis indicates that views of the Facility are possible, when considering both topography and vegetation, include:

- Nine properties listed on the National or State Register of Historic Places;
- Areas within the Stockport WMA; and
- Sections of four scenic highways.

These locations are considered aesthetic resources of statewide significance according to *DEC Policy Assessing and Mitigating Visual Impacts (DEP-00-2)(2000)*.

In addition, as outlined in Table 4.24-1, of the thirty-one subunits of the Columbia-Green North SASS associated with the Hudson River located within 5 miles from the Facility Area, the viewshed analysis indicates that, when accounting for vegetative and topographic screening, only limited views of the Facility Area are possible from twenty subunits.

**Table 4.24-1: Preliminary List of Aesthetic Resources within the 5-mile Visual Study Areas**

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
<b><i>Properties Listed in or Eligible for the National or State Register of Historic Places</i></b>					
1	Athens Lower Village Historic District	Yes	3.5	No View	No View
2	Brandow, William, House	Yes	4.3	No View	No View
3	Brick Row Historic District	Yes	2.7	No View	No View
4	Bronck Farm 13-Sided Barn	Yes	0.5	Views Possible	Views Possible
5	Bronck, Pieter, House	Yes	0.4	Views Possible	Views Possible
6	Bronk--Silvester House	Yes	0.6	Views Possible	Views Possible
7	Church of St. John the Evangelist	Yes	3.2	Views Possible	No View
8	Evans, Cornelius H., House	Yes	4.6	Views Possible	No View
9	Front Street-Parade Hill-Lower Warren Street Historic District	Yes	4.1	Views Possible	No View
10	Haxton--Griffin Farm	Yes	3.7	No View	No View
11	Houghtaling, Peter, Farm and Lime Kiln	Yes	2.4	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
12	Houses at 37-47 North Fifth St.	Yes	4.7	Views Possible	No View
13	Hudson Almshouse	Yes	4.4	No View	No View
14	Hudson Historic District	Yes	4	Views Possible	Views Possible
15	Hudson/Athens Lighthouse	Yes	4.3	No View	No View
16	Lynch Hotel	Yes	1.3	No View	No View
17	Lynch, James, House	Yes	1.3	No View	No View
18	Moore-Howland Estate	Yes	3.9	Views Possible	No View
19	Reed Street Historic District	Yes	0.6	No View	No View
20	Rushmore Farm	Yes	4	Limited Views Possible	Limited Views Possible
21	Scott, R. and W., Ice Company Powerhouse and Ice House Site	Yes	1.2	No View	View Possible
22	Stranahan-DelVecchio House	Yes	3.2	No View	No View
23	Stuyvesant Falls Mill District	Yes	3.5	No View	No View
24	Stuyvesant Railroad Station	Yes	3	No View	No View
25	Turtle House	Yes	4.5	No View	No View

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
26	US Post Office--Hudson	Yes	4.7	Views Possible	No View
27	Van Bergen House	Yes	1.9	Views Possible	Views Possible
28	Van Loon, Albertus, House	Yes	3.2	No View	No View
29	Van Salsbergen House	Yes	3.6	Views Possible	Views Possible
30	Wiswall, Oliver, House	Yes	4.7	Views Possible	No View
31	Witbeck, William A., House	Yes	3.8	No View	No View
32	Zion Lutheran Church	Yes	3.2	No View	No View
<b>State Parks</b>					
33	Hudson River Islands State Park	Yes	1.0	No View	No View
<b>National Wildlife Refuges, State Game Refuges, and State Wildlife Management Areas</b>					
34	Vosburgh Swamp WMA	Yes	1.2	No View	No View
35	Stockport WMA	Yes	2.6	Views Possible	Views Possible
<b>Sites, Areas, Lakes, Reservoirs or Highways Designated Scenic or Eligible for Designation as Scenic</b>					
36	New York State Bicycle Route 9 (proposed NYS Scenic Byways Corridor Management Plan)	Yes	3.1	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
37	River Road (proposed NYS Scenic Byways Corridor Management Plan)	Yes	0.7	Views Possible	Views Possible
38	New York State Route 385 (proposed NYS Scenic Byways Corridor Management Plan)	Yes	0.25	Views Possible	Views Possible
39	New York State Route 9J (proposed NYS Scenic Byways Corridor Management Plan)	Yes	2.3	Views Possible	Views Possible
<b>Scenic Areas of Statewide Significance</b>					
40	Columbia-Greene North, CGN-4 Islands Subunit	Yes	3.1	No View	No View
41	Columbia-Greene North, CGN-4/17 Subunit	Yes	3.4	No View	No View
42	Columbia-Greene North, CGN-4/18 Subunit	Yes	3.1	No View	No View
43	Columbia-Greene North, CGN-5 Otter Hook Subunit	Yes	2.7	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
44	Columbia-Greene North, CGN-5/18 Subunit	Yes	2.7	No View	No View
45	Columbia-Greene North, CGN-6 Cocksackie Creek Subunit	Yes	1.6	Views Possible	Views Possible
46	Columbia-Greene North, CGN-7 Cocksackie Island Subunit	Yes	1.2	Views Possible	Views Possible
47	Columbia-Greene North CGN-7/19 Subunit	Yes	1.6	No View	No View
48	Columbia-Greene North CGN-8, Cocksackie Farmland Subunit	Yes	0.7	Views Possible	Views Possible
49	Columbia-Greene North, CGN-9 Cocksackie Village Subunit	Yes	0.4	Views Possible	Views Possible
50	Columbia-Greene North, CGN-9/23 Subunit	Yes	0.7	No View	No View
51	Columbia-Greene North, CGN-9/24 Subunit	Yes	0.6	No View	No View
52	Columbia-Greene North, CGN-10 Lampman Hill Subunit	Yes	0.4	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
53	Columbia-Greene North, CGN-10/24 Subunit	Yes	0.6	No View	No View
54	Columbia-Greene North, CGN-11 Vosburgh Swamp Subunit	Yes	0.7	Views Possible	Views Possible
55	Columbia-Greene North, CGN-11/29 Subunit	Yes	1	No View	No View
56	Columbia-Greene North, CGN-12 Athens-Coxsackie Farmland Subunit	Yes	0.7	Views Possible	Views Possible
57	Columbia-Greene North, CGN-16 Stuyvesant Woods Subunit	Yes	3.6	No View	No View
58	Columbia-Greene North, CGN-17 Mill Creek Marsh Subunit	Yes	3.6	No View	No View
59	Columbia-Greene North, CGN-18 Stuyvesant Landing Subunit	Yes	2.6	Views Possible	Views Possible
60	Columbia-Greene North, CGN-19 Sheffer Subunit	Yes	1.5	Views Possible	Views Possible
61	Columbia-Greene North, CGN-20 Stuyvesant Hamlet Subunit	Yes	2.8	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
62	Columbia-Greene North, CGN-21 Stuyvesant Ravine Subunit	Yes	2.5	Views Possible	Views Possible
63	Columbia-Greene North, CGN-22 Nutten Hook Farms Subunit	Yes	3.4	Views Possible	Views Possible
64	Columbia-Greene North, CGN-23 Nutten Hook Subunit	Yes	1	Views Possible	Views Possible
65	Columbia-Greene North, CGN-24 Stockport Flats Subunit	Yes	1	Views Possible	Views Possible
66	Columbia-Greene North, CGN-25 Newton Hook Ravine Subunit	Yes	1.6	Views Possible	Views Possible
67	Columbia-Greene North, CGN-26 Judson Farms Subunit	Yes	1.9	Views Possible	Views Possible
68	Columbia-Greene North, CGN-27 Columbiaville Subunit	Yes	2.4	Views Possible	Views Possible
69	Columbia-Greene North, CGN-28 Stottville Farms Subunit	Yes	2.7	Views Possible	Views Possible
70	Columbia-Greene North, CGN-29 Stockport Creek Subunit	Yes	1.9	Views Possible	Views Possible



Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
<b>State Nature and Historic Preserve Area</b>					
71	Stockport Flats Estuarine Sanctuary	Yes	1.9	No Views	No Views
<b>Other Resources of Statewide or Regional Significance</b>					
72	Athens Boat Launch Site	No	3	No View	No View
73	Athens - Forest Preserve Detached Parcel	No	3.9	Views Possible	Views Possible
74	Brandow Point Unique Area	No	4.2	No View	No View
75	Bronck Island Unique Area/Vanschaak Unique Area	No	3.5	No View	No View
76	Bronck Island Shoreline Protection Area	No	4.4	No View	No View
77	Dolan Sand Farm - Forest Preserve Detached Parcel	No	1.6	Views Possible	Views Possible
78	Hudson Boat Launch Site	No	4.1	No View	No View
79	Middleground Flats Unique Area	No	2.7	No View	No View

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
80	Nuttenhook Boat Launch and Park	No	1	No View	Views Possible
<b>Local Parks</b>					
81	Coxsackie Boat Launch and Riverfront Park	No	1.4	No Views	No Views
82	Harrier Hill Park (Stottville)	No	3	Views Possible	Views Possible
83	McQuade Park (Coxsackie)	No	0.9	Views Possible	No View
84	Four Mile Point Preserve	No	1	No Views	No View
85	Cocksackie Island (Owned by Town, future park)	No	1.6	No Views	No View
<b>Lakes and Rivers</b>					
93	Greens Lake	No	3.4	No View	No View
94	Hudson River	No	0.6	No View	No View
95	Sleepy Hollow Lake (Private)	No	0.5	Views Possible	Views Possible
<b>Schools and Colleges</b>					
96	Athens Elementary School	No	3.5	No View	No View

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
97	Coxsackie-Athens Elementary, Middle, and High School	No	0.6	Views Possible	Views Possible
98	Edward J. Arthur Elementary School	No	3.5	No View	No View
99	Hudson High School	No	4.4	Views Possible	No View
100	Hudson Junior High School	No	4.4	Views Possible	No View
101	John L. Edwards Primary School	No	4.5	Views Possible	No View
102	Montgomery C. Smith Intermediate School	No	4.6	Views Possible	No View
103	Warren Street Academy	No	4.1	Views Possible	No View
<b>Major Transportation Corridors</b>					
N/A	Interstate 87	No	0.8-1.6 miles	Views Possible	Views Possible
N/A	U.S. Route 9W	No	0.3 - 1.4	Views Possible	Views Possible
N/A	NYS Route 385	No	0.3 - 1.0	Views Possible	Views Possible
N/A	County Road 61 (River Road)	No	0.5	Views Possible	Views Possible
N/A	NYS Route 81	No	1.2	Views Possible	Views Possible

Site Number <sup>1</sup>	Site Name	Scenic Area of Statewide Significance?	Distance from Facility Area (miles)	Facility Visibility (topography only)	Facility Visibility (topography and forested land cover)
N/A	U.S. Highway 9 (NYS Bicycle Route 9, or County Road 22)	No	2.6	View Possible	Views Possible
N/A	NYS Route 9J	No	1.2	Views Possible	Views Possible
<sup>1</sup> Where applicable, corresponds to Visual Resource Site on Figure 7.					

### **4.24.3 Proposed Avoidance, Minimization and Mitigation Measures**

As discussed in Section 4.24.2.9, Hecate Greene is proposing to maintain several swaths of vegetation along drainages, wetlands, and in forested habitats within the Facility Area boundary (Figure 2). This design approach will serve to mitigate the visual effects of the Facility by breaking up the solar panels into smaller sections interspersed with natural landscapes. Additional measures to reduce, minimize or avoid potential visual impacts from the Facility will be determined in consultation with the appropriate regulatory agencies and may include items such as:

- Landscaping around the perimeter of the PV panels, and around the substations to partially obscure the facility from surrounding roadways and residences;
- Use of non-specular materials and anti-glare coating;
- Utilization of shielded, downward-facing lighting fixtures to minimize off-site lighting impacts;
- Limitation of lighting to security lighting at the substations; and
- Additional screening options such as fencing and berming.

If reasonably unavoidable visual impacts from the Facility are identified, Hecate Greene will consult with municipal authorities, appropriate local stakeholders, and state agencies to identify specific measures to mitigate the impacts on specific resources. These agencies may include but are not limited to OPRHP, NYSDEC, and local planning authorities.

### **4.24.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding visual include:

- Appearance of the Facility and potential views
- Compliance with the local ordinance regarding visual barrier for the Sleepy Hollow Lake watershed
- Presence, design, and location of a vegetative buffer

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.24.2 and throughout this PSS.

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## **4.25 EFFECT ON TRANSPORTATION - EXHIBIT 25**

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### **4.25.1 Overview**

#### **4.25.1.1 Facility Layout**

The proposed Facility will include a number of permanent on-site access roads to each component of the Facility for maintenance purposes. A preliminary layout of these access roads is depicted on the preliminary Facility layout, included as Figure 2 to this PSS. Each roadway will be approximately 15 to 20 feet in width and will consist of a gravel and crushed stone cover type. Multiple driveways will be constructed along County Routes 9 and 57 and Adams Road in order to access the Facility Area.

A conceptual site plan will be included in the Application and will identify the horizontal and vertical geometry, the connections with County Routes 9 and 57 and Adams Road, the number of approach lanes, the lane widths, shoulder width, traffic control devices (if needed), and sight distance of the Facility Area driveway off these public roadways and any other access points determined to be necessary from public roadways. Additional information will be included in Exhibit 11: Preliminary Drawings of the Application depicting the layout and construction details of the Facility's proposed access roads.

#### **4.25.1.2 Pre-Construction Characteristics of Facility Area Roads**

As noted in Section 3.10, the Facility Area is located between County Route 385 to the east and US Route 9W to the west. County Route 57 bisects the southern portion of the Facility Area in a north-south direction (Farm to Market Road) and then heads east (Sutton Place). County Route 57 is a two-lane roadway and is maintained by the Greene County Highway Department. The northern portion of the Facility Area is bound by County Route 9 to the south. County Route 9 (a.k.a. Plank Road) is oriented in an east-west direction and provides access to both County Route 385 and US Route 9W. It too is a two-lane roadway and is maintained by the Greene County Highway Department. US Route 9W is a two-lane roadway and is maintained by the NYSDOT. The New York State Thruway parallels US Route 9W to the east. Local roads in the vicinity of the Facility Area include Adams Road, Johnny Cake Lane, and Bailey Street, located to the east, and Flats Road, Flint Mine Road, and Kings Road, located to the west.

The Facility will require temporary usage of most of these road systems primarily during construction to transport equipment. During operations, road system usage by the Facility will be drastically reduced. Delivery of equipment from major highways will likely include Interstate 87. State and County roadways likely to be used during construction are US Route 9W and County

Routes 9 and 57. It is not anticipated that local roadways within the vicinity of the Facility Area will be utilized, with the exception of Adams Road, which will provide access to the western portion of the Facility Area.

Data will be obtained from the NYSDOT Traffic Data Online Viewer to review Annual Average Daily Traffic (AADT) volumes along proposed approach and departure routes for the Facility. Accident information along those routes contained in the Accident Location Information System (ALIS) will be requested from the local police agencies and/or NYSDOT regional office.

The Study Area is located within the Coxsackie-Athens Central School district with the Coxsackie-Athens High School located approximately 3,400 feet east of the northern portion of the Facility Area and 3,100 feet north of the southern portion of the Facility Area. The Application will include a review of the Coxsackie-Athens Central School district routes by obtaining publicly available school bus routes, number of buses, and times from these school districts.

The potential approach and departure routes to and from the Facility for police, fire, ambulance and other emergency vehicles will be identified in the Application. In addition, consultations that have occurred between the Co-Applicants and local emergency service providers will be summarized. These consultations will result in the emergency departments learning about the Facility, the Article 10 process, and how the Co-Applicants typically interact with fire and emergency service providers during construction and operation. The Co-Applicants will alert all local Fire Departments identified in the consultation process that there will be a fire and emergency training and communication plan developed as part of the Article 10 process.

The available load bearing and structural rating information for expected Facility traffic routes will be included in the Application. As there are a number of existing industrial uses that utilize the roadways surrounding the Facility Area, there are no issues anticipated with the load bearing and structural ratings of existing roadways and bridges when accessing the Facility Area.

The Facility is not located in a congested urbanized area and, therefore, the following tasks are not contemplated in accordance with Section 1001.25(b)(5) of the Article 10 regulations: results of 24-hour traffic volume counts and peak turning movement counts for typical weekday morning, weekday afternoon, and Saturday peaks, at representative critical intersections.

#### **4.25.1.3 Trip Generation Characteristics during Construction and Operation**

Potential impacts to traffic and transportation during construction will be evaluated, considering likely delivery routes and the types of vehicles to be used. Impacts during operation are expected to be minimal as only intermittent access will be required for operation and maintenance activities.

For each major phase of the Facility, including construction and the operation phase, an estimate of the number and frequency of vehicle trips, including time-of-day and day-of-week arrival and departure distribution, by size, weight and type of vehicle will be included in the Application.

The heavy equipment and materials needed for site access, site preparation, and foundation construction are typical of road construction and do not pose unique transportation considerations. The types of heavy equipment and vehicles required would include small cranes, pile drivers, bulldozers, graders, excavators, front-end loaders, compactors, dump trucks, electric line trucks, water trucks, and heavy equipment maintenance vehicles. Typically, the equipment would be moved to the Facility Area by flatbed combination truck and would remain on site through the duration of construction activities. Typical construction materials hauled to the site would include gravel, sand, water, steel, electrical cable and components, fencing, and lumber. Ready-mix concrete might also be transported to the site. The movement of equipment and materials to the Facility Area during construction would cause a relatively short-term, minimal increase in the traffic levels on surrounding roadways during the approximately 9 to 12-month construction period.

An identification of approach and departure routes to and from the Facility Area out to a 5-mile distance for vehicles carrying water, fuel oil, bulk fuels, chemicals or hazardous materials for construction or operation of the Facility will be included in the Application.

Major cut or fill activity (spoil removal or deposition at the Facility site and affected interconnection areas) is not anticipated during construction of the Facility. The existing topography of the Facility Area is well-suited for placement of a solar facility. The land slopes gently to the south and east and is composed of low rolling hills interspersed with nearly flat fields and, as such, cut or fill activity will be minimal. Thus, a separate estimate of the number and frequency of vehicle trips for spoil removal or deposition at the Facility is not proposed to be developed.

The approach and departure routes to and from the Facility Area for construction workers and employees of the Facility will include the same existing roadways discussed above.

#### **4.25.1.4 Traffic and Transportation Study**

As discussed in Section 4.25.1.3 above, potential impacts to traffic and transportation will primarily occur during the construction phase for the Facility. Impacts during operation are expected to be minimal as only intermittent access will be required for operation and maintenance activities. During construction, it is anticipated that a peak of up to 200 workers will be working at the site at any given time, resulting in an increase in vehicle trips in and around the Facility Area. In addition,



delivery of panels and other Facility components will result in additional vehicle trips. To assess the impacts of these additional vehicle trips associated with the construction of the Facility, a traffic study will be conducted. The Application will contain a comparison of projected future traffic conditions with and without the proposed Facility, the analysis to be conducted separately for the peak construction impacts of the Facility and for the typical operations of the completed Facility. Because the Facility is not in a congested urbanized area, a calculation and comparison of the level of service for each representative intersection or detail for each turning movement is proposed to not be included.

The Application will also contain an evaluation of the adequacy of the road system to accommodate the projected traffic. This adequacy analysis will be conducted separately for the construction impacts of the Facility and for the typical operations of the completed Facility. Transportation logistics for the Facility will be reviewed early in the planning process. The estimated number of delivery trips for solar array components, interconnection and substation facilities and road materials will be provided in the Application. No over-sized load deliveries are anticipated. The largest Facility components will likely be the main electrical step-up transformer to be located in the substation and which will not require the use of oversized vehicles for delivery. The Application will discuss the typical type of delivery vehicles required and provide a discussion on the adequacy of the existing road system to facilitate these types of vehicles. Although not anticipated, any required temporary roadway improvements will be identified in the Application.

The Application will also include an identification and evaluation of practicable mitigation measures if warranted regarding traffic and transportation impacts, including time restrictions, the use of alternative technologies, the construction of physical roadway improvements, and the repair of local roads due to damage by heavy equipment or construction activities during construction of the Facility. No new traffic control devices are anticipated to be necessary and no damage to roads during Facility operations are expected.

A description of road use and restoration agreements, if any are required, between the Co-Applicants and municipalities or other entities regarding repair of local roads damaged by heavy equipment or construction activities during construction or operation of the Facility will be provided in the Application.

#### **4.25.1.5 Impacts on Mass Transit Systems**

There are no mass transit systems in the vicinity of the Facility Area. Therefore, impacts to mass transit systems as a result of Facility construction and operation will not be addressed in the Application.

#### **4.25.1.6 Federal Aviation Administration Notice of Proposed Construction**

Facility construction and operation are not anticipated to affect aviation. Construction of the Facility will not involve the use of construction equipment greater than 200 feet in height above the ground level and will not be near or at a civilian public or military airport or heliport. Therefore, consultations with the Federal Aviation Administration (FAA) are not required and will not be included in the Application. Consultations will occur with any public airports or heliports identified on the Facility's Stakeholder List (Appendix B) as part of the PIP Plan and summarized in the Application, as applicable.

### **4.25.2 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding transportation include:

- Potential impacts to local roadways

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.25.3 and throughout this PSS.

### **4.25.3 Proposed Studies**

Exhibit 25 of the Application will follow the requirements outlined in the applicable Subsections (a) through (f) of Section 1001.25 of the Article 10 regulations, as follows.

Exhibit 25 will contain:

- (a) A conceptual site plan, drawn at an appropriate scale, depicting all Facility site driveway and public roadway intersections horizontal and vertical geometry, the number of approach lanes, the lane widths, shoulder widths, traffic control devices by approaches, and sight distances. The site plans will be developed for the Facility Area driveway off County Routes 9 and 57 and Adams Road and any other access points determined to be necessary from public roadways;
- (b) A description of the pre-construction characteristics of the roadways in the vicinity of the Facility, including:

- (1) a review of existing data on vehicle traffic, use levels and accidents obtained from obtained from the NYSDOT Traffic Data Online Viewer, the ALIS and other publicly available data;
  - (2) a review of transit facilities and routes, including areas of school bus service;
  - (3) an identification of potential approach and departure routes to and from the Facility site for police, fire, ambulance and other emergency vehicles;
  - (4) a review of available load bearing and structural rating information for expected Facility traffic routes; and
- (c) An estimate of the trip generation characteristics of the facility during both construction and operation, including:
  - (1) for each major phase of construction, and for the operation phase, an estimate of the number and frequency of vehicle trips, including time of day and day of week arrival and departure distribution, by size, weight and type of vehicle;
  - (2) an identification of approach and departure routes to and from the facility site out to a 2-mile distance for vehicles carrying water, fuel oil, bulk fuels (including wood, biomass, coal and municipal solid waste), chemicals or hazardous materials for construction or operation of the facility;
  - (3) an identification of approach and departure routes to and from the Facility site for construction workers and employees of the Facility.
- (d) An analysis and evaluation of the traffic and transportation impacts of the Facility, including:
  - (1) a comparison of projected future traffic conditions with and without the proposed Facility, the analysis to be conducted separately for the peak construction impacts of the Facility and for the typical operations of the completed Facility;
  - (2) an evaluation of the adequacy of the road system to accommodate the projected traffic, the analysis to be conducted separately for the peak construction impacts of the Facility and for the typical operations of the completed Facility, the analysis to also include an identification of the extent and duration of traffic interferences during construction of the Facility and any interconnections;
  - (3) an assessment of the adequacy of roadway systems to accommodate the vehicles to be utilized for delivery of Facility components during construction; improvements necessary to accommodate deliveries; impacts associated with

- such improvements; and mitigation measures appropriate to minimize such impacts;
- (4) an identification and evaluation of practicable mitigation measures as warranted regarding traffic and transportation impacts, including time restrictions, the use of alternative technologies, the construction of physical roadway improvements, the installation of new traffic control devices, and the repair of local roads due to damage by heavy equipment or construction activities during construction or operation of the Facility; and
  - (5) a description of all road use and restoration agreements, if any, between the Co-Applicants and landowners, municipalities, or other entities, regarding repair of local roads damaged by heavy equipment or construction activities during construction or operation of the Facility.
- (e) An analysis and evaluation of the impacts of the facility on airports and airstrips, railroads, subways, buses and any other mass transit systems in the vicinity of the Facility. The analysis and evaluation shall include impacts on military training and frequent military operations in the National Airspace System and Special Use Airspace designated by the Federal Aviation Administration.

## **4.26 EFFECT ON COMMUNICATION - EXHIBIT 26**

### **4.26.1 Overview**

The proposed Facility will not interfere with any existing communication systems, including AM/FM radio, television reception, microwave communication, and military or civilian radar systems. The Facility will lack tall structures and exposed moving parts, and it is anticipated that it will generate only very weak electromagnetic fields (EMF).

The Facility will not impact military or civilian radar systems because it lacks tall structures that could potentially block radar signals. As noted above, it also lacks exposed moving parts and it is anticipated to generate only weak EMF that will dissipate rapidly within short distances.

Based on the foregoing, the following communication systems are not anticipated to be impacted by Facility construction or operation and are proposed to not be addressed in the Application:

- AM/FM radio
- television
- telephone
- microwave transmission

- land mobile radio including emergency services/first responders, municipal/school districts and public utility services
- radar
- air traffic control
- armed forces
- federal government systems, including GPS and hyperbolic long-range navigation (LORAN); and
- amateur radio

A study will be performed for the Facility in compliance with the requirements of the Article 10 regulations for Exhibit 26. A plan will be developed to address any potentially significant adverse impacts to communication systems. Specifically, locations of underground fiber optic cable within a 2-mile Study Area will be identified in the Application, to the extent such cable location is publicly known. This Exhibit will also provide a description of the publicly known communication systems within a 2-mile radius of the Facility and describe any expected impacts to those systems, if any. A more general discussion of the anticipated effects of the proposed Facility (including the electric interconnection) on the communication systems identified above in Section 4.26.1, will address the following:

- Physical disturbance due to construction;
- Adverse impacts to co-located lines due to unintended bonding; and
- Other potentials for interference.

#### **4.26.2 Proposed Avoidance, Minimization and Mitigation Measures**

Communication systems are not anticipated to be affected by Facility construction and operation. However, as described in Section 4.12.1 the Co-Applicants will develop a complaint resolution process through which residents can submit a formal complaint should any issues arise as a result of construction or operation of the Facility to communication systems.

#### **4.26.3 Proposed Studies**

Exhibit 26 of the Application will follow the requirements outlined in the applicable Subsections (a) through (e) of Section 1001.25 of the Article 10 regulations, as follows.

Exhibit 26 will contain:

- (b) An identification of all existing underground cable and fiber optic major transmission telecommunication lines within a 2-mile radius of the Facility and the electric interconnection between the Facility and the POI, to the extent known.
- (c) A statement describing the anticipated effects of the proposed Facility and the electric interconnection between the Facility and the POI on the communications systems required to be identified above, including the potential for:
  - physical disturbance by construction activities;
  - adverse impacts to co-located lines due to unintended bonding; and
  - any other potential for interference.
- (d) Communication systems are not anticipated to be affected by Facility construction and operation. However, the Co-Applicants will develop a complaint resolution process through which residents can submit a formal complaint should any issues arise as a result of construction or operation of the Facility to communication systems. The complaint resolution process will be included in Exhibit 12 of the Application.

## **4.27 SOCIOECONOMIC EFFECTS - EXHIBIT 27**

The socioeconomic impacts of the Facility will be determined consistent with the requirements of Article 10 and the Co-Applicants will evaluate the following general categories: construction workforce; associated payroll; primary and secondary employment and economic activity; and school district and infrastructure costs.

### **4.27.1 Overview**

A specialized and non-specialized workforce will be required for construction of the Facility. A majority of the workers will be sourced locally to the extent available within the local community. Non-local workers will be mainly required for supervision and to supplement the local construction workforce. This will result in a relatively small temporary in-migrating of workers that will require temporary accommodations, housing, and food services. Operation of the Facility will require a smaller workforce that may be hired from the local community while specialty workers from equipment vendors may be sourced outside the area for occasional O&M activity. A significant portion of the payroll to the construction and operation workforce is likely to recirculate into the local economy through local expenditures and taxes.

Various supplies and services for the Facility are expected to be purchased from local suppliers and companies. Construction of the Facility will require trucking, gravel, and concrete among other services and supplies. This will lead to additional revenues for area businesses, and

possible hiring of additional temporary workers. Total economic impact on the local area is composed of direct, indirect, and induced economic impacts. Any supplies and services purchased locally and any financial compensation received by local workers is a direct impact of the Facility. Reinvestment of these revenues by businesses and workers at other local businesses should result in the indirect impact of increasing revenues in the local economy. Induced impacts should occur as a result of employees of the businesses re-spending money at other businesses in the area.

Local spending will result in increased sales tax revenue for the Town of Coxsackie. The Facility will also provide revenues to the local community through a PILOT arrangement. Increased municipal revenues will benefit the County, School District, emergency services, and essential infrastructure.

Owners of properties with proposed Facility components will receive lease payments during operation from Hecate Greene. No recreational or tourist facilities will be displaced by the Facility and the Facility will draw relatively little municipal services.

The Co-Applicants propose to evaluate the socioeconomic impacts from construction and operation of the Facility by developing and analyzing the following information:

- Construction
  - The average construction work force by discipline, for each quarter, and during the construction period;
  - The peak construction employment level;
  - Estimated construction payroll; and
  - Direct non-payroll expenditures likely to be made in the vicinity of the Facility, including materials, services, rentals, and similar categories.
- Operation
  - Number of jobs and payroll, during a typical year once the Facility is in operation; and
  - Other expenditures likely to be made in the vicinity of the Facility during a typical year of operation.

The Co-Applicants will seek to rely on actual job and economic impact numbers from previous projects and industry data in informing socioeconomic effect estimates for the Facility. The Co-Applicants will make efforts to use job and economic impact numbers from projects that most

closely resemble the Facility in terms of location, MW capacity, acreage, and/or regional economics.

The Facility is not anticipated to result in any additional operation or infrastructure costs to the local school districts, municipalities, authorities, or utilities. Consultations with the local municipality will be pursued to verify this assumption. Hecate Greene will also consult with local fire and emergency services to determine if the local emergency response capacity, including specific training and equipment, is sufficient to meet the needs, if any, during construction or operation of the Facility.

Finally, this Exhibit will include a detailed statement indicating how the proposed Facility and interconnections are consistent with each of the applicable state smart growth public infrastructure criteria specified in ECL § 6-0107, or why compliance would be impracticable.

#### **4.27.2 Proposed Avoidance, Minimization and Mitigation Measures**

Property owners with Facility components will receive payments from Hecate Greene during operations. Although not expected, construction of the Facility may impact local roads and necessitate their repair or upgrade to accommodate construction vehicles and higher activity. Hecate Greene will ensure all public roads used are returned to the same condition than they were before construction, at no expense to taxpayers.

#### **4.27.3 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding socioeconomic effects include:

- PILOT program
- Use of local workers
- Question regarding the recipients of the generated power
- Potential financial donations to local charities to offset impacts
- Loss of productive agricultural land
- Potential tax implications for the town and village
- Potential impacts on tourism

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.27.4 and throughout this PSS.



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#### **4.27.4 Proposed Studies**

Exhibit 27 of the Application will follow the requirements outlined in the applicable Subsections (a) through (l) of Section 1001.27 of the Article 10 regulations, as follows.

Exhibit 27 will contain:

- (a) An estimate of the average construction work force, by discipline, for each quarter, during the period of construction; and an estimate of the peak construction employment level.
- (b) An estimate of the annual construction payroll, by trade, for each year of construction and an estimate of annual direct non-payroll expenditures likely to be made in the vicinity of the Facility (materials, services, rentals, and similar categories) during the period of construction.
- (c) An estimate of the annual secondary employment and economic activity likely to be generated in the vicinity of the Facility by the construction of the solar Facility. This analysis will state the basis of any economic multiplier factor or other assumption used.
- (d) An estimate of the number of jobs and the on-site payroll, by discipline, during a typical year once the Facility is in operation, and an estimate of other expenditures likely to be made in the vicinity of the Facility during a typical year of operation.
- (e) An estimate of the annual secondary employment and economic activity likely to be generated in the vicinity of the facility by its operation.
- (f) An estimate of incremental school district operating and infrastructure costs due to the construction and operation of the Facility, this estimate to be made after consultation with the affected school districts.
- (g) An estimate of incremental municipal, public authority, or utility operating and infrastructure costs that will be incurred for police, fire, emergency, water, sewer, solid waste disposal, highway maintenance and other municipal, public authority, or utility services during the construction and operation phases of the Facility (this estimate to be made after consultation with the affected municipalities, public authorities, and utilities).
- (h) An identification of all jurisdictions (including benefit assessment districts and user fee jurisdictions) that levy real property taxes or benefit assessments or user fees upon the Facility site, its improvements and appurtenances and any entity from which payments in lieu of taxes will or may be negotiated.

- (i) For each jurisdiction, an estimate of the incremental amount of annual taxes (and payments in lieu of taxes, benefit charges and user charges) it is projected would be levied against the post-construction Facility site, its improvements and appurtenances.
- (j) For each jurisdiction, a comparison of the fiscal costs to the jurisdiction that are expected to result from the construction and operation of the Facility to the expected tax revenues (and payments in lieu of taxes, benefit charge revenues and user charge revenues) generated by the Facility.
- (k) An analysis of whether all contingency plans to be implemented in response to the occurrence of a fire emergency or a hazardous substance incident can be fulfilled by existing local emergency response capacity, and in that regard identifying any specific equipment or training deficiencies in local emergency response capacity (this analysis to be made after consultation with the affected local emergency response organizations).
- (l) A detailed statement indicating how the proposed Facility and interconnections are consistent with each of the state smart growth public infrastructure criteria specified in ECL 6-0107, or why compliance would be impracticable.

## **4.28 ENVIRONMENTAL JUSTICE - EXHIBIT 28**

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Per NYSDEC Environmental Justice Policy CP-29, Potential Environmental Justice Areas include census block groups featuring populations that meet or exceed at least one of the following statistical thresholds:

- At least 51.1% of the population in an urban area reported themselves to be members of minority groups;
- At least 33.8% of the population in a rural area reported themselves to be members of minority groups; or
- At least 23.59% of the population in an urban or rural area had household incomes below the federal poverty level.

### **4.28.1 Overview**

The Co-Applicants have considered whether the Facility could have negative impacts on nearby environmental justice areas. As noted previously, the Facility will not result in emissions or air quality impacts beyond temporary vehicle/equipment emissions and fugitive dust during construction. Avoidance, minimization, and mitigation measures will be used to control these temporary emissions to the maximum extent practicable. Therefore, the Impact Study Area is defined as a 0.5-mile radius around all Facility components (Figure 8).

Based on data obtained from the NYSDEC's GIS Tools for Environmental Justice website, there are no Potential Environmental Justice Areas within the Facility Area. However, there is one adjacent to the Facility Area (NYSDEC 2018d). The nearest Potential Environmental Justice Area to the Facility Area is within the Town of Coxsackie (84.46% of the population of this census block group are members of minority groups). This Potential Environmental Justice Area is most likely associated with the Coxsackie Correctional Facility, located off NYS Route 9W. The next nearest Potential Environmental Justice Area to the Facility Area is approximately 4 miles away, within the City of Hudson (35.15% of the population of this census block group have a household income below the federal poverty level). A map depicting these Potential Environmental Justice Areas in relation to the Facility Area will be provided in the Application.

The Co-Applicants provided this information in the PIP Plan and, to date, no comments have been received regarding potential impacts to Environmental Justice Areas. Although the Facility will have no air emissions during operation, and, accordingly, the Environmental Justice NYSDEC regulations arguably do not apply to the Facility, an Environmental Justice Analysis will be conducted in accordance with 6 NYCRR Part 487

#### **4.28.2 Other Topics Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding environmental justice include:

- Presence of Environmental Justice Areas within proximity of the Facility Area

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.28.3 and throughout this PSS.

#### **4.28.3 Proposed Studies**

Exhibit 28 will contain:

- (a) An identification and evaluation of significant and adverse disproportionate environmental impacts of the proposed facility, if any, resulting from its construction and operation, including any studies which were used in the evaluation identifying the author and dates thereof, in a manner that is in accordance with any requirements for the contents of an Article 10 application contained in 6 NYCRR Part 487.
- (b) Separately stated for all significant and adverse disproportionate environmental impacts of the proposed facility resulting from its construction and operation required to be identified pursuant to subdivision (a) of this section, a description of:

- (1) The specific measures the Co-Applicants propose to take to avoid such impacts to the maximum extent practicable for the duration that the Certificate is granted, including a description of the manner in which such impact avoidance measures will be verified and a statement of the cost of such measures.
- (2) If such impacts cannot be avoided, measures the Co-Applicants propose to take to minimize such impacts to the maximum extent practicable for the duration that the Certificate is granted, including a description of the manner in which such impact mitigation measures will be verified and a statement of the cost of such measures.
- (3) If such impacts cannot be avoided, the specific measures the Co-Applicants propose to take to offset such impacts to the maximum extent practicable for the duration that the Certificate is in effect, including a description of the manner in which such impact offset measures will be verified and a statement of the cost of such measures.
- (c) A qualitative and where possible quantitative analysis demonstrating that the scope of avoidance, mitigation and offset measures is appropriate given the scope of significant and adverse disproportionate environmental impacts of the proposed facility resulting from its construction and operation.

## **4.29 SITE RESTORATION AND DECOMMISSIONING - EXHIBIT 29**

Hecate Greene will identify performance criteria proposed for site restoration in the event the Facility cannot be completed and for decommissioning of the Facility at the end of its commercial useful life. Hecate Greene will also discuss how the selected criteria are appropriately addressing:

- Safety and the removal of hazardous conditions;
- Environmental impacts;
- Aesthetics;
- Salvage and recycling;
- Potential future uses for the site; and
- The commercial useful life of the facility.

### **4.29.1 Overview**

Should the Facility be abandoned before completion of construction or at the end of its useful commercial life, and it were to remain in place, the land on which it would be sited could not be utilized for other uses such as traditional agriculture, residences or industry as allowed by local

zoning. By having a decommissioning plan, measures will be in place to ensure that all components of the Facility are removed so that the land can be utilized in the future.

#### **4.29.2 Extent and Quality of Information Required**

A decommissioning plan will be prepared that will provide for the quantification of the salvage value of the Facility components as well as a plan for, and cost of, decommissioning the Facility. This plan will also set forth requirements for disposal of any hazardous materials if needed, although hazardous materials are not anticipated to be on-site. This plan will specify how decommissioning and restoration, if required, will be funded and will provide a schedule for conducting such activities.

Since the proposed Facility is to be located on private land under lease agreement, the plan will also include a description of site restoration and decommissioning addressed in agreements between Hecate Greene and the landowner, as applicable, specifically addressing provisions for the removal of the solar panels, racking, inverters, electrical collection lines, and site interconnection/substation facilities.

#### **4.29.3 Proposed Avoidance, Minimization and Mitigation Measures**

The Application will include information on Hecate's plan to cover the cost of decommissioning. Financial assurance, such as a future cash reserve, corporate guarantee, or letter of credit will be considered to cover the cost of decommissioning less the salvage value of the Facility components. This will provide funding for decommissioning of the Facility either if the Facility cannot be completed or is abandoned at the end of its useful commercial life. The land can then be restored to its present condition.

#### **4.29.4 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding site restoration and decommissioning include:

- Details of a Maintenance and Decommissioning Plan
- Accountability and responsibility for decommissioning activities
- Source of funding for completion of decommissioning activities

To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.29.5 and throughout this PSS.

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### **4.29.5 Proposed Studies**

Exhibit 29 of the Application will follow the requirements outlined in the applicable Subsections (a) through (b) of Section 1001.29 of Article 10 of the Public Service Law as follows.

Exhibit 29 will contain:

- (a) A statement of the performance criteria proposed for site restoration in the event the Facility cannot be completed and for decommissioning of the Facility, including a discussion of why the performance criteria are appropriate. Among other things, the statement shall address:
  - safety and the removal of hazardous conditions;
  - environmental impacts;
  - aesthetics;
  - salvage and recycling;
  - potential future uses for the site; and
  - the useful life of the facility.
- (b) A plan for the decommissioning and restoration of the Facility site including how such decommissioning and restoration shall be funded and a schedule for the conduct of decommissioning and site restoration activities.

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### **4.30 NUCLEAR FACILITIES - EXHIBIT 30**

This Exhibit is not applicable to the proposed Facility as no nuclear facilities are proposed.

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### **4.31 LOCAL LAWS AND ORDINANCES - EXHIBIT 31**

Exhibit 31 of the Application will include an analysis of local laws and ordinances that are applicable to the construction, operation and maintenance of the Facility. Local laws and ordinances of both a procedural and substantive nature will be identified. The Co-Applicants will continue to consult with the Village and Town of Coxsackie and other local agencies whose requirements are the subject of this exhibit to determine whether the Co-Applicants have correctly identified all such requirements and to determine whether any potential request by the Co-Applicants that the Siting Board elect to not apply any such local requirement could be obviated by design changes to the proposed Facility, or otherwise.

#### **4.31.1 Applicable Local Laws and Ordinances of a Procedural Nature**

The following is a list of local ordinances, laws, resolutions, standards and other requirements anticipated to be applicable to the construction or operation of the proposed Facility:

- Town of Coxsackie General Legislation:
  - Chapter 103 Fire Prevention and Building Code, Uniform
  - Chapter 201 Zoning
- Village of Coxsackie General Legislation:
  - Chapter 66 Fire Prevention and Building Construction
  - Chapter 155 Zoning

The Town of Coxsackie previously had a solar ordinance (Chapter 167 Solar Energy Collection Systems) in effect. However, the Town has currently placed a moratorium on the installation of solar energy systems until it can update its ordinance. In addition to the ordinances listed above, the Application will include an assessment of the Town's new solar ordinance should it be available at the time of filing.

Procedural requirements are supplanted by Article 10 of the PSL unless the Board expressly authorizes the exercise of the procedural requirement by the local municipality or agency. Absent Article 10, the Facility would require site plan review by the Town Planning Board to confirm compliance with applicable provisions of the Town's zoning ordinance and other applicable local codes. The Application will evaluate compliance of the Facility with the substantive requirements of applicable local laws.

#### **4.31.2 Building Permit Issuance**

The Town and Village of Coxsackie would be responsible for building permit review to certify compliance with the New York State Uniform Fire Prevention and Building Code and the Energy Conservation Construction Code of New York State for portions of the Facility Area within the Town and Village, respectively. Typically, the Town's Building Inspector Code Officer and Village's Code Enforcement Officer is responsible for building permit review. The Co-Applicants will consult with the Town and Village to determine each's capabilities to review and approve building plans; inspect as necessary, the construction work; and to certify compliance with the applicable building codes (i.e., New York State Uniform Fire Prevention and Building Code and the Energy Conservation Construction Code of New York State) for the Facility. Further information identifying who will be responsible for building permit issuance in both the Town and Village will be provided in the Application following these consultations.

#### **4.31.3 Applicable Local Laws and Ordinances of a Substantive Nature**

A list and description of all local laws and regulations of a substantive nature anticipated to be applicable to the construction, operation or maintenance of the proposed Facility is provided in

Tables 4.31-1 and 4.31-2. It is anticipated that the proposed Facility can be designed so as to comply with the general provisions and intent of the Town's and Village's substantive local laws. Where compliance is not anticipated, a statement has been provided indicating specific provisions that the Co-Applicants anticipate they will be requesting the Siting Board to elect not to apply, in whole or in part, and a preliminary explanation as to why the Siting Board should elect not to apply the specific provisions as unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality.

**Table 4.31-1: Town of Coxsackie Substantive Local Laws and Ordinances Applicable to the Facility**

Chapter/Section	Title
<b>Chapter 85</b>	<b>Driveways</b>
§85-3	Standard driveway entrance and exist requirements
<b>Chapter 174</b>	<b>Subdivision of Land</b>
Article IX	Design Standards, including: <ul style="list-style-type: none"> <li>• §174-61 Access to lots</li> <li>• §174-63 Drainage improvements</li> <li>• §174-69 Preservation of natural features</li> </ul>
<b>Chapter 201</b>	<b>Zoning</b>
Articles III	Regulations, including: <ul style="list-style-type: none"> <li>• §201-13.B Permitted Uses</li> <li>• §201-13.C Bulk, space and yard requirements</li> </ul>
<b>Chapter 201</b>	<b>Zoning</b>
Article IV	Regulations, including: <ul style="list-style-type: none"> <li>• §201-30 Fences and walls</li> <li>• §201-32 Maximum impervious surface</li> <li>• §201-34 Performance standards</li> </ul>
<b>Chapter 201</b>	<b>Zoning</b>
Article VI	Natural Resource Protection Standards, including: <ul style="list-style-type: none"> <li>• §201-48 Watercourses</li> <li>• §201-49 Wetlands</li> </ul>



Chapter/Section	Title
	<ul style="list-style-type: none"> <li>§201-50 Wildlife Habitat</li> </ul>
<b>Chapter 201</b>	<b>Zoning</b>
Article VII	Design and Landscaping Standards, including: <ul style="list-style-type: none"> <li>§201-52 Landscaping and buffering</li> <li>§201-53 Lighting standards</li> </ul>
<b>Chapter 201</b>	<b>Noise</b>
§ 201-34	Quantitative noise standards

**Table 4.31-2: Village of Coxsackie Substantive Local Laws and Ordinances Applicable to the Facility**

Chapter/Section	Title
<b>Chapter 89</b>	<b>Noise</b>
§89-1	Unnecessary noises prohibited
<b>Chapter 155</b>	<b>Noise</b>
§ 155-30	Quantitative noise standards
<b>Chapter 132</b>	<b>Subdivision of Land</b>
Article III	General Requirements; Design Standards, including: <ul style="list-style-type: none"> <li>§132-16.D Driveway access</li> <li>§132-17 Drainage improvements</li> <li>§132-18.F Preservation of natural features</li> </ul>
<b>Chapter 155</b>	<b>Zoning</b>
Article III	Districts, Boundaries and Regulations, including: <ul style="list-style-type: none"> <li>§155-9.B Permitted Uses RRA District</li> <li>§155-9.C Bulk, space and yard requirements RRA District</li> <li>§155-12.B Permitted Uses MDR-2 District</li> <li>§155-12.C Bulk, space and yard requirements MDR-2 District</li> <li>§155-19.B Permitted Uses CC District</li> <li>§155-19.C Bulk, space and yard requirements CC District</li> </ul>
<b>Chapter 155</b>	<b>Zoning</b>

Chapter/Section	Title
Article IV	Supplemental Regulations, including: <ul style="list-style-type: none"> <li>• §155-26 Fences and walls</li> <li>• §155-29 Maximum impervious surface</li> <li>• §155-30 Performance standards</li> </ul>
<b>Chapter 155</b>	<b>Zoning</b>
Article VI	Natural Resource Protection Standards, including: <ul style="list-style-type: none"> <li>• §155-44 Watercourses</li> <li>• §155-45 Wetlands</li> <li>• §155-46 Wildlife Habitat</li> </ul>
<b>Chapter 155</b>	<b>Zoning</b>
Article VII	Design and Landscaping Standards, including: <ul style="list-style-type: none"> <li>• §155-48 Landscaping and buffering</li> <li>• §155-49 Lighting standards</li> </ul>
	Noise

It is anticipated that the Facility can be designed so as to comply with the general provisions and intent of the Town and Village of Coxsackies substantive requirements, with the potential exception of the Village's permitted uses allowable for the Rural Residential Agriculture (RRA) District, the Medium Density Residential-2 (MDR-2) District and the Community Commercial (CC) District. The Village of Coxsackie does not have an ordinance specific to solar. Additionally, the zoning ordinance itself does not address solar energy facilities as a use (either permitted or not permitted). As such, the Co-Applicants will continue to consult with the Village of Coxsackie to explore its application of the zoning ordinance and interpretation of a solar energy facility use. Should the Facility not be able to comply with this use regulation, the Co-Applicants will request that the Siting Board not apply it to the Facility as the regulation would be unreasonably burdensome in view of the existing technology. In order to meet the 50-MW (AC) generating capacity for the proposed Facility, adequate land area is required to site the number of solar panels necessary to meet this generating capacity. Not permitting solar energy facilities on land that is particularly well-suited for such use would be unreasonably burdensome. Utility-scale solar power facilities such as the Facility are consistent with the NYSPSC adopted Clean Energy

Standard and the most recent State Energy Plan. In addition, a portion of the output of the Facility was selected by New York State Energy Research and Development Authority (NYSERDA) in a competitive Request for Proposals process for the purchase of renewable energy credits. The application of the subject code provision to the Facility would undermine the State's and NYSERDA's clean energy objectives.

Within the Town of Coxsackie, the Facility Area is located within the Rural Residential (RR) District. Public Utility Installations are allowed by special permit within the RR zoning district. Although a moratorium is in effect, the Town's current solar law permits utility-scale solar in all zoning districts and the Facility anticipates it can comply with all its substantive requirements.

#### **4.31.4 Local Laws and Ordinances Applicable to Utility Interconnections in Public ROWs**

The Facility will not require any interconnections for water, sewer or steam lines. Should the Co-Applicants determine that an interconnection is required for the Facility to a telecommunication utility within a public ROW, the Application will include a list of all local ordinances, laws, resolutions, regulations, standards, and other requirements applicable to the interconnection both of a procedural and substantive nature. Based upon a preliminary review, it is anticipated that the local laws and ordinances that would be applicable to any proposed telecommunication utilities would be consistent with those listed in Sections 4.31.1 through 4.31.3 above.

#### **4.31.5 Coastal Zone Consistency**

As shown in Figure 5 the northern portion of the Facility Area, located within the Village of Coxsackie, is located within a State-designated coastal zone. A discussion on the State Coastal Policies potentially applicable to the Facility is included in Section 4.4 of the PSS. A complete consistency assessment with these policies is proposed to be included in the Application.

#### **4.31.6 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding local laws and ordinances include:

- Consistency with local zoning
- Town of Coxsackie's moratorium on solar

To the extent practicable, these topics have been incorporated into the proposed scope of the Application, as outlined in Section 4.31.7.

#### **4.31.7 Proposed Studies**

Exhibit 31 of the Application will follow the requirements outlined in Subsections (a) through (j) of Section 1001.31 of the Article 10 regulations as follows.

Before preparing the exhibit required by this section, the Co-Applicants will consult with the municipalities or other local agencies whose requirements are the subject of the exhibit to determine whether the Co-Applicants have correctly identified all such requirements and to determine whether any potential request by the Co-Applicants that the Siting Board elect to not apply any such local requirement could be obviated by design changes to the proposed Facility, or otherwise.

Exhibit 31 will contain:

- (a) A list of all local ordinances, laws, resolutions, regulations, standards and other requirements applicable to the construction or operation of the proposed major electric generating facility (includes interconnection electric transmission lines and fuel gas transmission lines that are not subject to review under Article VII of the PSL) that are of a procedural nature. These local procedural requirements are supplanted by PSL Article 10 unless the Siting Board expressly authorizes the exercise of the procedural requirement by the local municipality or agency.
- (b) A list of all local procedural requirements required to be identified pursuant to subdivision (a) of this section for which the Co-Applicants request that the Board expressly authorize the exercise of the procedural requirement by the local municipality or agency, including a statement why such local exercise would be desirable or appropriate.
- (c) Identification of the city, town, village, county, or State agency qualified by the Secretary of State that shall review and approve the building plans, inspect the construction work, and certify compliance with the applicable codes that may include New York State Uniform Fire Prevention and Building Code, the Energy Conservation Construction Code of New York State, and the substantive provisions of any applicable local electrical, plumbing or building code. If no other arrangement can be made, the NYSDOS should be identified. The statement of identification shall include a description of the preliminary arrangement made between the Co-Applicants and the entity that shall perform the review, approval, inspection, and compliance certification, including

arrangements made to pay for the costs thereof including the costs for any consultant services necessary due to the complex nature of such facilities. If the applicable city, town or village has adopted and incorporated the New York State Uniform Fire Prevention and Building Code for administration into its local electric, plumbing and building codes, the Co-Applicants may make a request pursuant to subdivision (b) of this section that the Siting Board expressly authorize the exercise of the electric, plumbing and building permit application, inspection and certification processes by such city, town or village.

- (d) A list of all local ordinances, laws, resolutions, regulations, standards and other requirements applicable to the construction or operation of the proposed major electric generating facility (includes interconnection electric transmission lines and fuel gas transmission lines that are not subject to review under Article VII of the PSL) that are of a substantive nature, together with a statement that the location of the facility as proposed conforms to all such local substantive requirements, except any that the applicant requests that the Board elect to not apply. Copies of zoning, flood plain and similar maps, tables and/or documents shall be included in the exhibit when such are referenced in such local substantive requirements. Pursuant to PSL §168(3)(e), the Siting Board must find that the Facility is designed to operate in compliance with these local substantive requirements, all of which shall be binding upon the applicant, unless the Board elects to not apply them by finding that, as applied to the proposed Facility such are unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality.
- (e) A list of all local substantive requirements required to be identified pursuant to subdivision (d) of this section for which the Co-Applicants request that the Siting Board elect to not apply them by finding that, as applied to the proposed Facility such are unreasonably burdensome in view of the existing technology or the needs of, or costs to, ratepayers whether located inside or outside of such municipality. For each local substantive requirement identified, a statement justifying the request shall be provided. The statement of justification shall show with facts and analysis the degree of burden caused by the requirement, why the burden should not reasonably be borne by the Co-Applicants, that the request cannot reasonably be obviated by design changes to the proposed Facility, the request is the minimum necessary, and the adverse impacts of granting the request are mitigated to the maximum extent practicable. The statement shall include a demonstration:

- (1) for requests grounded in the existing technology, that there are technological limitations (including governmentally imposed technological limitations) related to necessary Facility component bulk, height, process or materials that make compliance by the Co-Applicants technically impossible, impractical or otherwise unreasonable;
  - (2) for requests grounded in factors of costs or economics (likely involving economic modeling), that the costs to consumers associated with applying the local substantive requirement outweigh the benefits of applying such provision; and
  - (3) for requests grounded in the needs of consumers, that the needs of consumers for the Facility outweigh the impacts on the community that would result from refusal to apply the local substantive requirement.
- (f) A list of all local ordinances, laws, resolutions, regulations, standards and other requirements applicable to the interconnection to or use of telecommunication lines in public ROWs that are of a procedural nature. These local procedural requirements are not supplanted unless the Siting Board elects to not apply them by finding that, as applied to the proposed Facility interconnections such are unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality.
- (g) A list of all local ordinances, laws, resolutions, regulations, standards and other requirements applicable to the interconnection to or use of telecommunication lines in public ROWs that are of a substantive nature. These local substantive requirements are not supplanted unless the Siting Board elects to not apply them by finding that, as applied to the proposed Facility interconnections such are unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality.
- (h) A list of all local procedural or substantive requirements required to be identified pursuant to subdivisions (f) and (g) of this section for which the Co-Applicants request that the Siting Board elect to not apply them by finding that, as applied to the proposed Facility interconnections, such are unreasonably burdensome in view of the existing technology or the needs of, or costs to, ratepayers whether located inside or outside of such municipality. For each local procedural or substantive requirement identified, a statement justifying the request will be provided. The statement of justification will show with facts and analysis the degree of burden caused by the requirement, why the burden should not

reasonably be borne by the Co-Applicants, that the request cannot reasonably be obviated by design changes to the proposed Facility, the request is the minimum necessary, and the adverse impacts of granting the request are mitigated to the maximum extent practicable. The statement shall include a demonstration:

- (1) for requests grounded in the existing technology, that there are technological limitations (including governmentally imposed technological limitations) related to necessary Facility component bulk, height, process or materials that make compliance by the Co-Applicants technically impossible, impractical or otherwise unreasonable;
- (2) for requests grounded in factors of costs or economics (likely involving economic modeling), that the costs to consumers associated with applying the local substantive requirement outweigh the benefits of applying such provision; and
- (3) for requests grounded in the needs of consumers, that the needs of consumers for the Facility outweigh the impacts on the community that would result from refusal to apply the local substantive requirement.
- A summary table of all local substantive requirements required to be identified pursuant to subdivisions (d) and (g) of this section in two columns listing the provisions in the first column and a discussion or other showing demonstrating the degree of compliance with the substantive provision in the second column.
- (j) An identification of the zoning designation or classification of all lands constituting the site of the proposed Facility and a statement of the language in the zoning ordinance or local law by which it is indicated that the proposed facility is a permitted use at the proposed site. If the language of the zoning ordinance or local law indicates that the proposed Facility is a permitted use at the proposed site subject to the grant of a special exception, a statement of the criteria in the zoning ordinance or local law by which qualification for such a special exception is to be determined.

## **4.32 STATE LAWS AND REGULATION - EXHIBIT 32**

### **4.32.1 Anticipated State Approvals, Consents, Permits or Other Conditions**

Hecate Greene has preliminarily identified state approvals, consents, permits, certificates or other conditions that are anticipated to be required for the construction and operation of the proposed

Facility, associated interconnections, and ancillary features through initial discussions with state agencies. These preliminary identified requirements are provided in Table 4.32-1.

**Table 4.32-1 State Approvals, Consents, Permits, or Other Conditions**

Permit/Consultation	Trigger	Requirements	Status/Timeframe
<b>STATE OF NEW YORK</b>			
<b><i>New York State Department of Environmental Conservation</i></b>			
SPDES General Stormwater Discharge Permit for Construction Activity GP-0-15-002	Soil disturbances greater than 1 acre	A GP-0-15-002 General Stormwater Discharge Permit for Construction Activity requires that a Notice of Intent along with a SWPPP be filed with the governing agency(ies). Permit is required if discharge occurs to Waters of the State or municipal sewer systems.	Permit issuance to be coordinated with Article 10 proceeding in accordance with Section 172 of PSL.
Section 401 of the CWA Water Quality Certification (WQC)	Discharge of dredged or fill material regulated under Section 404	The Section 401 WQC is generally limited to discharges of dredged or fill material regulated under Section 404. The Facility must be consistent with the designated use of a given water body and the water quality criteria established.	Permit issuance to be coordinated with Article 10 proceeding in accordance with Section 172 of PSL.
<b><i>New York State Office of Parks, Recreation, and Historic Preservation</i></b>			
Section 14.09 of the New York State Historic Preservation Act and	Potential to directly or indirectly	The SHPO provides project review to ensure that effects or impacts on	Initial consultation with OPRHP has occurred.



Permit/Consultation	Trigger	Requirements	Status/Timeframe
Section 106 of the National Historic Preservation Act consultation with SHPO	affect any building, structure, archeological site, object, landscape or district. This consultation is required by Article 10 regulations and if there is a federal nexus.	eligible or listed properties are considered and avoided or mitigated during the Facility planning process. SHPO also consults with federal agencies in identifying archaeological site and historic properties and avoiding or minimizing any potential adverse effects from federally funded, licensed, or authorized projects in New York.	Recommendations will be included within Application.
<b><i>New York State Department of Agriculture and Markets (NYSDAM)</i></b>			
Notice of Intent to ensure Compliance with Agricultural District Laws	All facilities located within agricultural districts.	If the project is located in or within 500 feet of an Agricultural District, an Agricultural Data Statement (Town or County Village form) is required and the neighboring landowners are to be notified of the Facility. Hecate Greene will coordinate with NYSDAM to assist in the determination of Facility impacts and to identify remedial actions to consider. Hecate Greene will follow the Notice of	Initial consultation with NYSDAM has occurred.

Permit/Consultation	Trigger	Requirements	Status/Timeframe
		Intent (NOI) checklist to prepare the NOI.	

Hecate Greene will construct and operate the Facility in conformance with the applicable state substantive requirements for those approvals, consents, permits, certificates or other conditions. As part of this Exhibit of the Application, substantive requirements associated with necessary state approvals, consents, permits, certificates or other conditions will be provided in a summary table demonstrating the degree of compliance with the substantive provision.

### **4.32.2 Proposed Studies**

Exhibit 32 of the Application will follow the requirements outlined in Subsections (a) through (e) of Section 1001.32 of the Article 10 regulations as follows.

Before preparing the exhibit required by this section, the Co-Applicants will consult with the state agencies and authorities whose requirements are the subject of the exhibit to determine whether the Co-Applicants have correctly identified all such requirements.

Exhibit 32 will contain:

- (a) A list of all state approvals, consents, permits, certificates, or other conditions for the construction or operation of the proposed major electric generating facility (including interconnection electric transmission lines and fuel gas transmission lines that are not subject to review under Article VII of the PSL) of a procedural nature. These state procedural requirements are supplanted by PSL Article 10, except for permits to be issued by the NYSDEC pursuant to federal recognition of state authority, or pursuant to federally delegated or approved authority, in accordance with the CWA, the Clean Air Act and the Resource Conservation and Recovery Act, and permits pursuant to Section 15-1503, Title 9 of Article 27, and Articles 17 and 19 of the ECL, unless the Siting Board expressly authorizes the exercise of such authority by the state agency.
- (b) A list of all state procedural requirements required to be identified pursuant to subdivision (a) of this section for which the Co-Applicants request that the Siting Board expressly authorize the exercise of such authority by the state agency, including a statement why such exercise would be desirable or appropriate.
- (c) A list of all state approvals, consents, permits, certificates, or other conditions for the construction or operation of the proposed major electric generating facility (including

interconnection electric transmission lines and fuel gas transmission lines that are not subject to review under Article VII of the PSL) of a substantive nature, together with a statement that the Facility as proposed conforms to all such state substantive requirements. Pursuant to PSL §168(3)(e), the Siting Board must find that the Facility is designed to operate in compliance with these state substantive requirements, all of which will be binding upon the Co-Applicants.

- (d) A summary table of all state substantive requirements required to be identified pursuant to subdivision (c) of this section in two columns listing the provisions in the first column and a discussion or other showing demonstrating the degree of compliance with the substantive provision in the second column.
- (e) A list of all state approvals, consents, permits, certificates, or other conditions for the construction or operation of any proposed offsite interconnections and ancillary features that are not encompassed within the definition of Major Electric Generating Facility. These state actions not for the construction or operation of the proposed major electric generating facility are not supplanted by PSL Article 10 and may be state procedural requirements or state substantive requirements.

## **4.33 OTHER APPLICATIONS AND FILINGS - EXHIBIT 33**

### **4.33.1 Other Applications**

In addition to the permits and approvals listed in Table 4.32-1, the Facility is anticipated to require federal permits, consents approvals or licenses for construction and operation of the Facility as documented in Section 4.33.2. The Co-Applicants do not have and are not aware of any other pending applications or filings that concern the subject matter of this proceeding before the Siting Board.

### **4.33.2 Federal Permits and Approvals**

Hecate Greene has preliminarily identified other potential applications or filings for the Facility that may be filed with the federal departments or agencies. This preliminary list is provided in Table 4.33-1. A complete list will be included in the Application.

**Table 4.33-1: Potential Federal Permits, Consents, Approvals or Licenses**

Permit/Consultation	Trigger	Comments	Status/Timeframe
<b><i>United States Army Corps of Engineers</i></b>			
Nationwide Permit and/or Individual Permit pursuant to Section 404 of the CWA	Discharges of dredged or fill materials affecting federal waters and wetlands	Requires approval prior to discharging dredged or fill material into the "Waters of the United States"; Nationwide Permit required for impacts less than 0.5 acres and an Individual Permit would be required for impacts over 0.5 acres.	Application would be filed concurrently with, or shortly thereafter, the Article 10 Application
<b><i>National Historic Preservation Act</i></b>			
Section 106 Consultation	A license or permit from a federal agency	Consultation with federal and state historic preservation authorities under Section 106 of the NHPA is required for federal permitting actions. The federal agency issuing permit may be obligated to consult with Native American Tribes to identify Traditional Cultural Properties within the Facility Area.	Initial consultation with OPRHP and the Stockbridge-Munsee Community Band of Mohican Indians has occurred. Recommendations will be included within Application.

Permit/Consultation	Trigger	Comments	Status/Timeframe
<b><i>United States Fish and Wildlife Service</i></b>			
Technical Assistance and Consultation under the ESA	Potential impacts to federally listed species and their critical habitat; Federal permit or approval (Section 404 Permit) required.	Hecate Greene will seek technical guidance from the USFWS to plan the Facility.	Co-Applicants to consult with USFWS.  Documentation to be included in Application.

### 4.33.3 Proposed Studies

Exhibit 33 of the Application will follow the requirements outlined in Subsections (a) through (b) of Section 1001.33 of the Article 10 regulations as follows.

- (a) A statement whether the Co-Applicants have pending, or know of others who have pending, with the Commission or with any other governmental department, agency or court of competent jurisdiction (state or federal), any application or filing which concerns the subject matter of the proceeding before the Siting Board. If any such applications or filings are pending, the Co-Applicant will state, for each such application or filing, whether the granting of any such application or filing will have any effect on the grant or denial of a certificate, and whether the grant or denial of a certificate will have any effect upon the grant or denial of any such other application or filing. The Co-Applicants will notify the Secretary, Presiding Examiner and each party of any significant change in the status of each such application or filing.
- (b) The Application will identify any Federal permit, consent, approval or license that will be required for the construction or operation of the Facility. The Application will specify the date on which an application for any such approval was made or the estimated date on which it will be made. The Co-Applicants will notify the Secretary, Presiding Examiner and each party of any significant change in the status of each such application.

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## 4.34 ELECTRIC INTERCONNECTION - EXHIBIT 34

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### 4.34.1 Overview

Hecate Greene will provide a description of the Facility's proposed electric interconnection, including the information provided in the following sections. It is anticipated that two of the three Facility POIs to the electric transmission system will be accomplished via two new on-site collection substations and two short (less than 300 feet) overhead 69-kV lines connecting to the existing 69-kV line located adjacent to the Facility Area. The collection substation will transform the power up to 69 kV and deliver power to the Central Hudson transmission system at two POIs. These two POIs will include new on-site substations, which will be constructed either by the Co-Applicants, meeting design specifications offered by Central Hudson, or by Central Hudson. These POI substations will connect the Facility to the Central Hudson transmission system. The third POI to the electric transmission system will be accomplished via the existing Cocksackie substation and an approximately 3,500-foot overhead 69-kV line.

#### 4.34.1.1 Design Voltage and Voltage of Initial Operation

Operating voltage of the interconnection lines will be 69 kV (grid voltage).

#### 4.34.1.2 Type, Size, Number and Materials of Conductors

The type, size, and length of the interconnection lines will be described in the Application. The interconnecting lines will most likely be overhead going from the existing lines to the adjacent on-site substations.

#### 4.34.1.3 Insulator Design

Typical utility-grade ceramic or composite insulators will be used and described in the Application.

#### 4.34.1.4 Length of the Transmission Line

The Co-Applicants are proposing to construct two short (less than 300 feet) overhead transmission lines to interconnect the Facility substations to the Central Hudson transmission lines at 69 kV. The third PO will require a longer (approximately 3,500-foot) overhead transmission line to interconnect the Facility to the existing Cocksackie substation.

#### 4.34.1.5 Collection Line Design and Standards Specifications

Design standards and specifications of the interconnection lines and associated structures will be addressed in the Application.

#### **4.34.1.6 Type and Design Standards of Cable System**

Where underground lines are planned, it will be direct buried or in conduit. The trench may disturb an area up to approximately 6 feet wide with cables installed to a depth of 2 to 4 feet. Suitable native or engineered backfill will be used, and the disturbed areas will be returned to approximate pre-construction grades and restored.

#### **4.34.1.7 Profile of the Underground Construction**

If underground interconnection lines are planned, then the associated drawings will be provided with the Application.

#### **4.34.1.8 Equipment to be Installed**

The Facility collection substation drawings will be provided with the Application. The interconnection substation is required by the local interconnecting utility and the details of the Facility will be addressed in the Application.

#### **4.34.1.9 Terminal Facility**

No terminal facility is required as part of the proposed Facility.

#### **4.34.1.10 Need for Cathodic Protection Measures**

Hecate Greene will assess, review results, and determine whether cathodic protection measures will be required as part of the Application. The Application will also include a discussion on the need for cathodic protection measures on the existing gas pipeline that traverses the Facility Area due to the operation of the Facility.

### **4.34.2 Proposed Studies**

Exhibit 34 of the Application will follow the requirements outlined in Subsections (a) through (k) of Section 1001.34 of the Article 10 regulations, as follows.

Exhibit 34 will contain a detailed description of the proposed electric interconnection including:

- (a) the design voltage and voltage of initial operation;
- (b) the type, size, number and materials of conductors;
- (c) the insulator design;
- (d) the length of the transmission line;
- (e) the typical dimensions and construction materials of the towers;

- (f) the design standards for each type of tower and tower foundation;
- (g) for underground construction, the type of cable system to be used and the design standards for that system;
- (h) for underground construction, indicate on a profile of the line the depth of the cable and the location of any oil pumping stations and manholes;
- (i) equipment to be installed in any proposed switching station or substation including an explanation of the necessity for any such switching station or substation;
- (j) any terminal facility; and
- (k) the need for cathodic protection measures.

## **4.35 ELECTRIC AND MAGNETIC FIELD - EXHIBIT 35**

Two of the three proposed POIs will be located within the Facility Area and, therefore, will not require an off-site ROW. However, the third POI is proposed within the existing Cocksackie substation, approximately 3,500 east of the Facility Area. The Co-Applicants propose to measure EMF levels at the Facility Area property boundaries and along the new off-site 69 kV aboveground segment up to (but not including) the existing Cocksackie substation.

### **4.35.1 Overview**

Compliance with the NYPSC's "Interim Policy on Magnetic Fields of Major Electric Transmission Facilities," issued on September 11, 1990 (NYPSC Policy, Exhibit I), will be discussed in the Application.

Potential impacts of the proposed interconnection route segments on radio and TV reception interference will be evaluated in the Application. The proposed segments will be designed in accordance with applicable regulations and in a way, as much as practical, to reduce the proposed interconnection route segments EMF strength and any potential reception interference. Complaint resolution procedures and potential mitigation measures (if determined necessary, though not anticipated) will also be discussed in the Application.

### **4.35.2 Other Material Issues Raised by the Public and Affected Agencies**

The Co-Applicants have received various comments from stakeholders through the public outreach efforts to date. Other material issues raised regarding EMF include:

- Potential EMF impact on nearby residences



To the extent practicable, the remaining topics have been incorporated into the proposed scope of studies to be included in the Application, as outlined in Section 4.35.3 and throughout this PSS.

### **4.35.3 Proposed Studies**

The strength and location of EMFs will be modeled on representative areas of the interconnections route segments. Modeling calculations will identify existing EMFs and future EMFs that would result from construction and operation of the Facility at the Facility Area property lines. For the purposes of calculations, the interconnection route segment is assumed to be 30 feet wide (subject to confirmation during design) for all of the segments. The Application will identify the name and calculation number of each segment.

For each of the unique segments, the EMF study will provide both base case (where existing facilities are present) and proposed cross sections that will show, to scale, the following features:

- any known overhead electric transmission, sub-transmission, and distribution facilities showing structural details and dimensions and identifying phase spacing, phasing, and any other characteristics affecting EMF emissions;
- any known underground electric transmission, sub-transmission, and distribution facilities;
- Facility Area boundaries as they relate to the interconnection route; and
- structural details and dimensions for all structures (dimensions, phase spacing, phasing, and similar categories) and an overview map depicting the Station number identifying the location.

The EMF study will also include a set of aerial photos/drawings showing the exact location of each interconnection route segment and each cross-section, and any residences or occupied buildings below or immediately adjacent to the segments (though none are anticipated). If no residence or occupied building is below or immediately adjacent to the interconnection route segments, the measurement of the distance between the interconnection route segment and the nearest residence or occupied building will be provided.

The Co-Applicants will also provide a study which evaluates potential induced voltages on Facility components (i.e., perimeter fencing; solar array structures) located in proximity to existing and proposed high-voltage electric transmission facility.

Exhibit 35 of the Application will follow the requirements outlined in Subsections (a) through (d) of Section 1001.35 of the Article 10 regulations, as follows.

The EMF study will include proposed (including the 69-kV interconnection route segments) and base (without the 69-kV interconnection route segments) case scenarios as defined in Exhibit 35 of Article 10. The EMF study will be performed by a licensed Professional Engineer and the computer software program used to model the facilities and make the calculations will be described in the Application. Each segment will be studied individually in the following manner:

#### **4.35.3.1 Study One: Exhibit 35(d)(3)**

Study one will be performed in accordance with Exhibit 35(d)(3) for the proposed and base case scenarios for every interconnection route segment.

#### **4.35.3.2 Study Two: Exhibit 35(d)(4)**

There are various loading requirements of study two including summer normal, summer short-term emergency, winter normal, and winter short-term emergency situations need to be modeled individually. Notwithstanding the loading models of Exhibit 35(d)(4), Hecate Greene is proposing that modeling the Facility at the highest possible generation output will be sufficient for this study. Since the maximum output of a solar energy facility is fixed at the nameplate capacity and since no other transmission will be on the proposed interconnection route segments, modeling the line at the highest possible generation output will capture the highest realistic EMF levels and be sufficient for this study. Hecate Greene proposes to model only one situation (highest possible generation output) for this study for both the proposed and base case scenarios. The remaining portions of the study would be conducted in conformance with all other aspects of Exhibit 35(d)(4).

#### **4.35.3.3 Study Three: Exhibit 35(d)(5)**

Hecate Greene does not have plans to expand or to place another facility on the proposed interconnection route segments. In addition, the generation from this Facility will be the only power transmitted on the segments. Therefore, the average annual load occurring on the proposed interconnection route segments within ten years after it is placed into service will be less than the maximum load studied in Exhibit 35(d)(3). Consequently, Hecate Greene is proposing to not perform this study.

#### **4.35.3.4 Study Four: Exhibit 35(d)(6)**

Study Four will be performed for all segments with existing facilities that parallel the proposed interconnection route segments. These studies will be accordance with Exhibit 35(d)(6). Any segments without existing facilities will have no magnetic field in the proposed interconnection

route segment (assumed to be 30 feet wide) – in such cases, no study would be performed as the results would not be informative.

#### **4.35.4 Proposed Avoidance, Minimization and Mitigation Measures**

Conductors will be arranged using industry best practices and will comply with NYPSC guidelines. Hecate Greene's interconnection design will conform to applicable NYPSC guidelines and therefore there will be no unavoidable impacts.

#### **4.36 GAS INTERCONNECTION - EXHIBIT 36**

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This Exhibit is not applicable to the proposed Facility as no natural gas interconnection is required.

#### **4.37 BACK-UP FUEL - EXHIBIT 37**

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This Exhibit is not applicable to the proposed Facility does not utilize fuel.

#### **4.38 WATER INTERCONNECTION - EXHIBIT 38**

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This Exhibit is not applicable to the proposed Facility as water will not be used for operation; therefore, no water interconnection is required.

#### **4.39 WASTEWATER INTERCONNECTION - EXHIBIT 39**

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This Exhibit is not applicable to the proposed Facility as no wastewater will be generated as a result of its operation.

#### **4.40 TELECOMMUNICATIONS INTERCONNECTION - EXHIBIT 40**

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##### **4.40.1 Overview**

It is not anticipated that the Facility will require telecommunications interconnections, as defined by 16 NYCRR § 1000.2. It is likely that data will be transmitted to Central Hudson and others using existing telecommunications facilities as the area is generally served by existing cellular and broadband services. However, the Co-Applicants will conduct a review of existing communications facilities to determine whether new facilities will be required to meet off-site communication needs prior to submitting the Application. If any additional facilities are identified, a description of such facilities will be contained in this Exhibit.

#### **4.40.1.1 Operational Data Transmitted to NYISO**

It is anticipated that the Facility's operational generating data will be transmitted to NYISO/Central Hudson through an underground conduit or duct from the collection substation into the POI, and will include generation data (MW output, mega volt ampere reactive [MVAR], and any curtailment) and environmental data. The Application will provide additional information on the Facility's meter location, the means of providing the operational data to Central Hudson, and the secure communications network for these operational data.

#### **4.40.1.2 Facility Operations Communications Methods**

The Application will provide information regarding a high-speed internet (cellular, cable, fiber or other provider) to be established, and the means of transmitting the necessary data and other information to the appropriate parties for monitoring and reporting purposes.

#### **4.40.1.3 Status of Negotiations**

Negotiations regarding communications interconnection have not yet been initiated for the Facility because at this time, the need for these agreements has not been identified. Although not anticipated, any changes in status will be discussed in the Application.

### **4.40.2 Proposed Studies**

Exhibit 40 of the Application will follow the requirements outlined in Subsections (a) through (c) of Section 1001.40 of the Article 10 regulations, as follows.

Exhibit 40 will contain:

- (a) A detailed description of the proposed telecommunications interconnection, including all interconnecting facilities, line route, design details, size, functions, and operating characteristics.
- (b) An analysis demonstrating that there will be sufficient capacity to support the requirements of the facility.
- (c) A description of the status of negotiations, or a copy of agreements that have been executed, with companies or individuals for providing the communications interconnection including any restrictions or conditions of approval placed on the facility imposed by the provider, and a description of how the interconnection and any necessary system upgrades will be installed, owned, maintained and funded.

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#### **4.41 APPLICATIONS TO MODIFY OR BUILD ADJACENT**

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This Exhibit is not applicable to the proposed Facility.



## **5.0 SUMMARY AND CONCLUSIONS**

This PSS has been prepared for the Facility, a 50 MW PV solar energy generation facility in the Village and Town of Coxsackie, Greene County, New York. The Facility, proposed on land between US Route 9W and County Route 385 totaling approximately 933 acres, will consist of solar arrays, inverters, cable collection system, substation, internal infrastructure (i.e. access roads and fencing), and temporary laydown areas. This document has been prepared to facilitate an understanding of the proposed Facility, continue to solicit input from the public and other stakeholders, and to comply with Section 1000.5(l) of the Article 10 regulations requirements for a PSS.

Section 4.0 of this PSS has been organized in accordance with 16 NYCRR Part 1001 (Content of an Application). All subsections of Section 4.0 follow the 41 Exhibits outlined in the subsections of 16 NYCRR Part 1001. As noted within each exhibit, numerous studies are to be performed and included within the Application in order to provide a thorough environmental assessment of the Facility. These studies include:

- Electric SIS
- Invasive Species Prevention Plan
- Electric System Production Modeling
- Alternatives Analysis
- Preliminary QA/QC Plan
- Property Boundary Survey
- ERP
- Complaint Resolution Plan
- Noise Impact Assessment
- Decommissioning Plan
- Phase IB Archaeological Survey
- Historic Resources Survey
- Preliminary Geotechnical Investigation
- Plant Community and Wildlife Habitat Characterization
- Breeding Bird and Winter Raptor Surveys
- Wetland and Stream Delineation
- Preliminary SWPPP
- VIA

- Traffic and Transportation Study
- EMF Study

The Co-Applicants have prepared a matrix to demonstrate the compliance of this PSS with the requirements of 1000.5(l), which is provided in Table 5-1.



**Table 5-1: Compliance of this PSS with the Requirements of 1000.5(l) of the Article 10 Regulations**

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
PSL 1000.5(l)(1)	As much information as is reasonably available concerning the proposed facility, generally in the form (though in less detail) that it will appear in the application.	Sections 1 and 2	Sections 1 and 2 provide a project description and brief description of potential impacts.
PSL 1000.5(l)(2)	A preliminary scope of an environmental impact analysis containing a brief discussion, on the basis of reasonably available information of the following items listed below:	Sections 3 and 4	Section 3 includes general information about the environmental setting of the Facility Area. The detailed subsections of Section 4 (as described below) provide the preliminary scope of an environmental impact analysis based on reasonably available information.
PSL 1000.5(l)(2)(i)	A brief description of the proposed facility and its environmental setting;	Sections 2 and 3	Sections 2 provides a project description. Section 3 includes general information about the environmental setting of the Facility Area and Study Area.
PSL 1000.5(l)(2)(ii)	Potentially significant adverse environmental and health impacts resulting from the construction and operation of the proposed facility including also an identification of	Section 4	Section 4 identifies the potential impacts associated with each of the 41 exhibits (as applicable) regarding the environment and health.

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
	particular aspects of the environmental setting that may be affected, including any material impacts or effects identified in consultations by the public, affected agencies, and other stakeholders, and a responsive analysis by the Applicant as to those issues identified in consultations;		
PSL 1000.5(l)(2)(iii)	The extent and quality of information needed for the application to adequately address and evaluate each potentially significant adverse environmental and health impact, including existing and new information where required, and the methodologies and procedures for obtaining the new information;	Section 4	Section 4, and all associated subsections, identify the extent and quality of information anticipated to be included in the Application, including numerous stand-alone support studies. Section 5 provides a summary project-specific studies to be conducted.
PSL 1000.5(l)(2)(iv)	for proposed wind-powered facilities, proposed or ongoing studies during pre-construction activities and a proposed period of post- construction operations monitoring for potential impacts to avian and bat species;	Not applicable	The project does not consist of a wind-powered facility.

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
PSL 1000.5(l)(2)(v)	A description of how the applicant proposes to avoid adverse impacts to the environment and health;	Section 4	Section 4, and all associated subsections, identify the proposed avoidance or mitigation measures to the environment and health that are anticipated to be included in the Application.
PSL 1000.5(l)(2)(vi)	For those adverse environmental and health impacts that cannot be reasonably avoided, an identification of measures proposed to mitigate such impacts;	Section 4	Please see above.
PSL 1000.5(l)(2)(vii)	Where it is proposed to use petroleum or other back-up fuel for generating electricity, a discussion and/or study of the sufficiency of the proposed on-site fuel storage capacity and supply;	Not applicable	No petroleum or other back-up fuel is proposed.
PSL 1000.5(l)(2)(viii)	A description and evaluation of reasonable and available alternative locations for the proposed facility, including a description of the comparative advantages and disadvantages of the proposed and alternative locations, except that a private	Section 4.9	Section 4.9 presents a discussion of the analysis that will be presented in the Application concerning any identified reasonable and available locations controlled by the Co-Applicants. Other requirements for an alternatives analysis at

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
	facility applicant may limit its description and evaluation of alternative locations to parcels owned by, or under option to, such private facility applicant or its affiliates;		the proposed site will also be evaluated in the Application.
PSL 1000.5 (l)(2)(ix)	If the proposed facility affects any land or water use or natural resource of the coastal area and federal authorization or funding is necessary, a preliminary analysis of the consistency of the proposed facility with the enforceable policies of the New York State coastal management program or, where the action is in an approved local waterfront revitalization program area, with the local program;	Not applicable	Facility Area is not located within a coastal zone.
PSL 1000.5 (l)(2)(x)	A statement of the reasons why the primary proposed location and source, taking into account the potentially significant and adverse environmental impacts, is best suited, among the alternatives, including a	Section 4.9	Section 4.9 presents a discussion of any identified Reasonable and Available Alternatives to the proposed Facility, including a “no action” alternative, and a statement indicating why the proposed

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
	"no action" alternative, to promote public health and welfare, including the recreational and other concurrent uses that the site may serve, except that a private facility applicant may limit its description and evaluation of alternative locations to parcels owned by, or under option to, such private facility applicant or its affiliates and its description and evaluation of alternative sources to those that are reasonable alternatives to the proposed facility that are feasible considering the objectives and capabilities of the sponsor;		location is best suited, among identified alternatives, to promote public health and welfare, including the recreational and other concurrent uses that the Facility Area may serve.
PSL 1000.5 (l)(2)(xi)	A preliminary identification of the demographic, economic and physical attributes of the community in which the facility is proposed to be located and in which any alternative location identified is located, and a preliminary environmental justice evaluation of significant and adverse	Sections 3.11 and 4.28	Section 3.11 provides demographic information for the towns of Coeymans and Bethlehem and the Village of Ravena. Section 3 overall provides information on the economic and physical attributes of the community. Section 4.28 addresses Environmental Justice, including

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
	disproportionate environmental impacts of the proposed facility and any alternative facility identified that would result from construction and operation considering, among other things, the cumulative impact of existing sources of emissions of air pollutants and the projected emission of air pollutants from the proposed or alternative facility in a manner that is in accordance with any requirements for the contents of an Article 10 preliminary scoping statement contained in 6 NYCRR Part 487 promulgated by the NYSDEC for the analysis of environmental justice issues; and		identification of the nearest Potential Environmental Justice Areas.
PSL 1000.5 (l)(2)(xii)	An identification of any other material issues raised by the public and affected agencies during any consultation and the response of the applicant to those issues.	Section 4	Section 4, and all associated subsections, identify material issues raised by the public and affected agencies to date, where applicable. Specifically, section 4.2 provides a summary of the public involvement process. In addition,

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
			Appendix A of the PSS includes the most recently filed Meeting Log, which outlines all consultation activities conducted by the Co-Applicants since January 2017.
PSL 1000.5 (l)(3)	An identification of all other state and federal permits, certifications, or other authorizations needed for construction, operation or maintenance of the proposed facility;	Sections 4.32 and 4.33	Sections 4.32 and 4.33 address anticipated state and federal permits and approvals, respectively, that may be required for the proposed Facility.
PSL 1000.5 (l)(4)	A list and description of all state laws and regulations issued thereunder applicable to the construction, operation or maintenance of the proposed facility and a preliminary statement demonstrating an ability to comply;	Section 4.32	Section 4.32 addresses state laws and regulations.
PSL 1000.5(l)(5)	A list and description of all local laws, and regulations issued thereunder, applicable to the construction, operation, or maintenance of the proposed facility and a statement either providing a preliminary assessment of an ability to comply or indicating specific	Section 4.31	Section 4.31 addresses local laws and regulations.

PSL 1000.5(l) Section	Requirement	Corresponding Section of this PSS	Notes
	provisions that the applicant will be requesting the Board to elect not to apply, in whole or in part, and a preliminary explanation as to why the Board should elect not to apply the specific provisions as unreasonably burdensome in view of the existing technology or the needs of or costs to ratepayers whether located inside or outside of such municipality;		
PSL 1000.5 (l)(6)	A description of the applicant, its formation, status, structure, holdings, affiliate relationships, powers (including whether it has or will seek to obtain the power of eminent domain, either directly or indirectly), franchises and consents;	Section 2.1	Section 2.1 describes the applicant, including the type of business and its formation. The Co-Applicants do not plan to seek to obtain the power of eminent domain.
PSL 1000.5 (l)(7)	A description of the applicant's property rights and interests or those it proposes to acquire to all lands of the proposed facility and any private or public lands or private or public streets, highways or ROWs crossed	Section 2.2	Section 2.2 provides information regarding the Co-Applicant's property rights and interests.



PSL 1000.5(I) Section	Requirement	Corresponding Section of this PSS	Notes
	by any interconnections necessary to serve the facility such as, but not limited to, electric lines, gas lines, water supply lines, waste water or other sewage treatment facilities, communications and relay facilities, access roads, rail facilities, or steam lines; and		
PSL 1000.5 (I)(8)	Any other information that the Applicant may deem to be relevant.	Not applicable	



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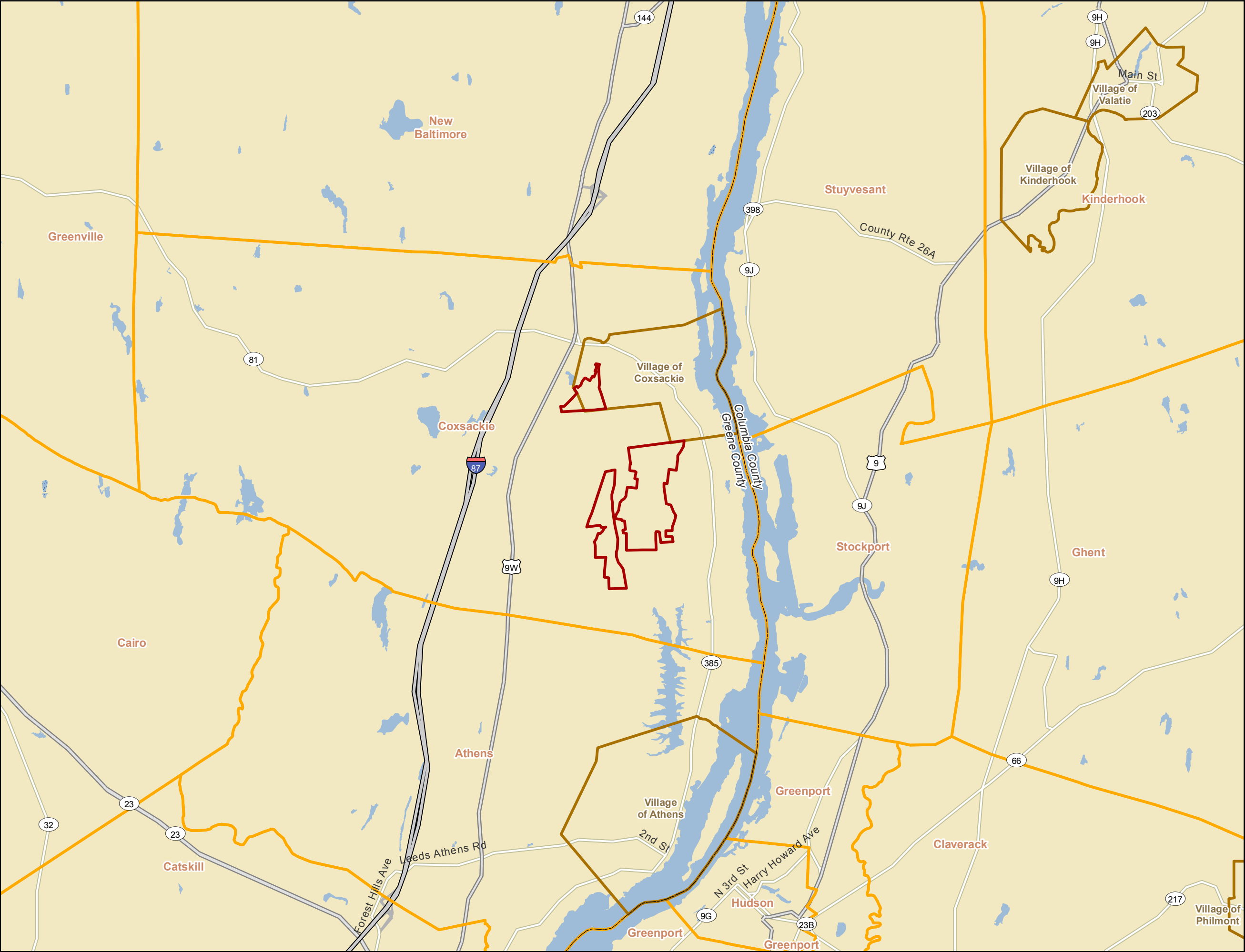
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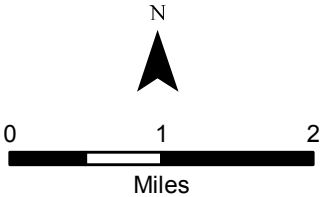
## FIGURES



**Figure 1**  
**Facility Location**

Greene County Solar Facility  
Greene County, New York

- Facility Area
- County Boundary
- City/Town Boundary
- Village Boundary



Source: ESRI, USGS





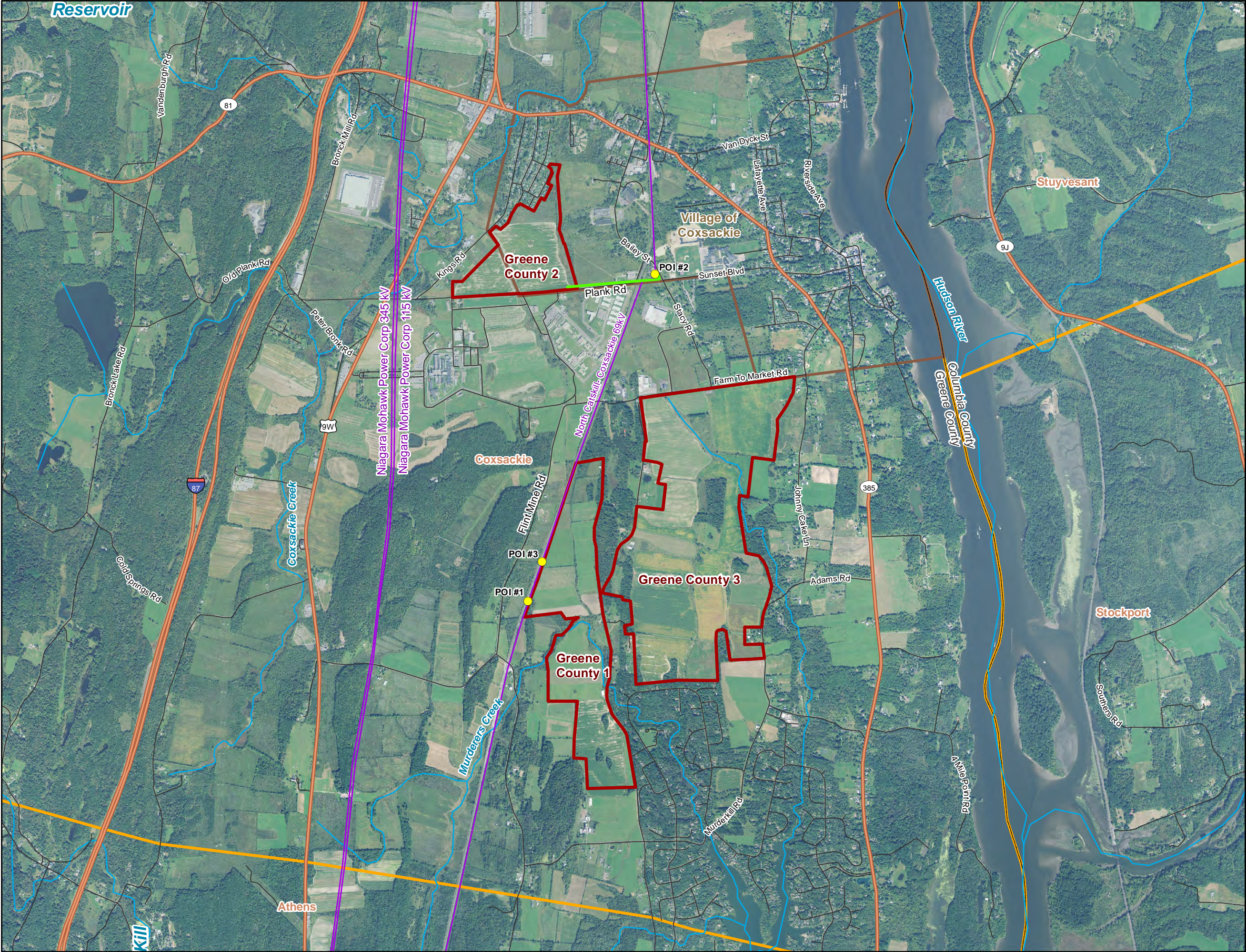
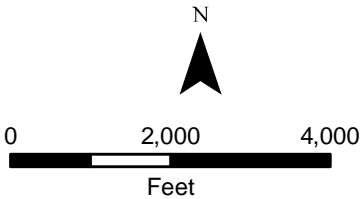


Figure 2  
Facility Area

Greene County Solar Facility  
Greene County, New York

- Facility Area
- Preliminary 13kV Interconnect
- Point of Interconnection (POI)
- County Boundary
- City/Town Boundary
- Village Boundary
- Major Road
- Local Road
- Waterway
- Existing Transmission Line



Source: ESRI, USDA NAIP, Ventyx



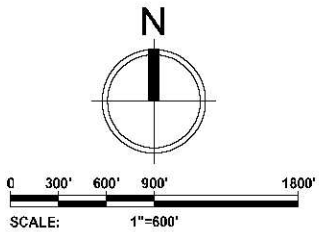
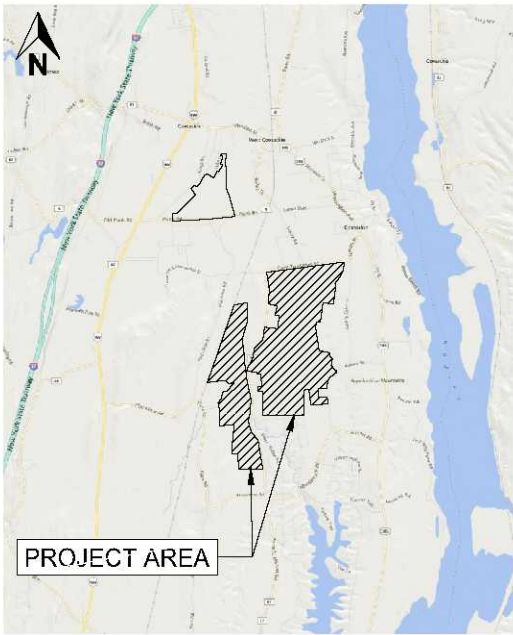




PROJECT DATA:	
CAPACITY (AC):	40 MW
PV MODULES:	JINKO OR SIMILAR
MFR. NAMEPLATE:	325 - 360 Wp
INVERTERS:	TMEIC CORP. OR SIMILAR
MFR. NAMEPLATE:	2 - 3 MW
ARRAY:	TBD
MFR. TYPE:	SINGLE AXIS
TILT:	0°
ORIENTATION:	E-W +/-40°
GCR:	33%

LEGEND:	
---	PROPERTY BOUNDARY
-X-	PV PLANT FENCE
---	PUBLIC ROADS
---	PV PLANT OVERHEAD ELECTRIC
---	PV PLANT UNDERGROUND ELECTRIC
---	EXISTING UNDERGROUND TELECOM
+	RAILROAD
---	EXISTING GAS LINE
---	EXISTING OVERHEAD ELECTRIC
---	STREAMS / DITCHES
---	SETBACKS
...	POTENTIAL BAT HABITAT
---	FIRE LANE
---	INTERNAL ROAD
---	VEGETATIVE BUFFER*
---	WETLANDS
*LOCATION & WIDTH OF VEGETATIVE BUFFER TO BE FINALIZED PENDING VISUAL ASSESSMENT	

CHKD									
DWN									
DESCRIPTION		REV	DATE						

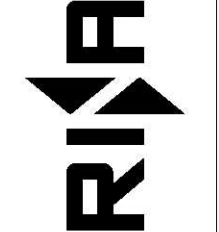


**Figure 3A  
Preliminary Layout**

Greene County Solar Facility  
Greene County, New York

PRELIMINARY SITE PLAN  
SOUTH

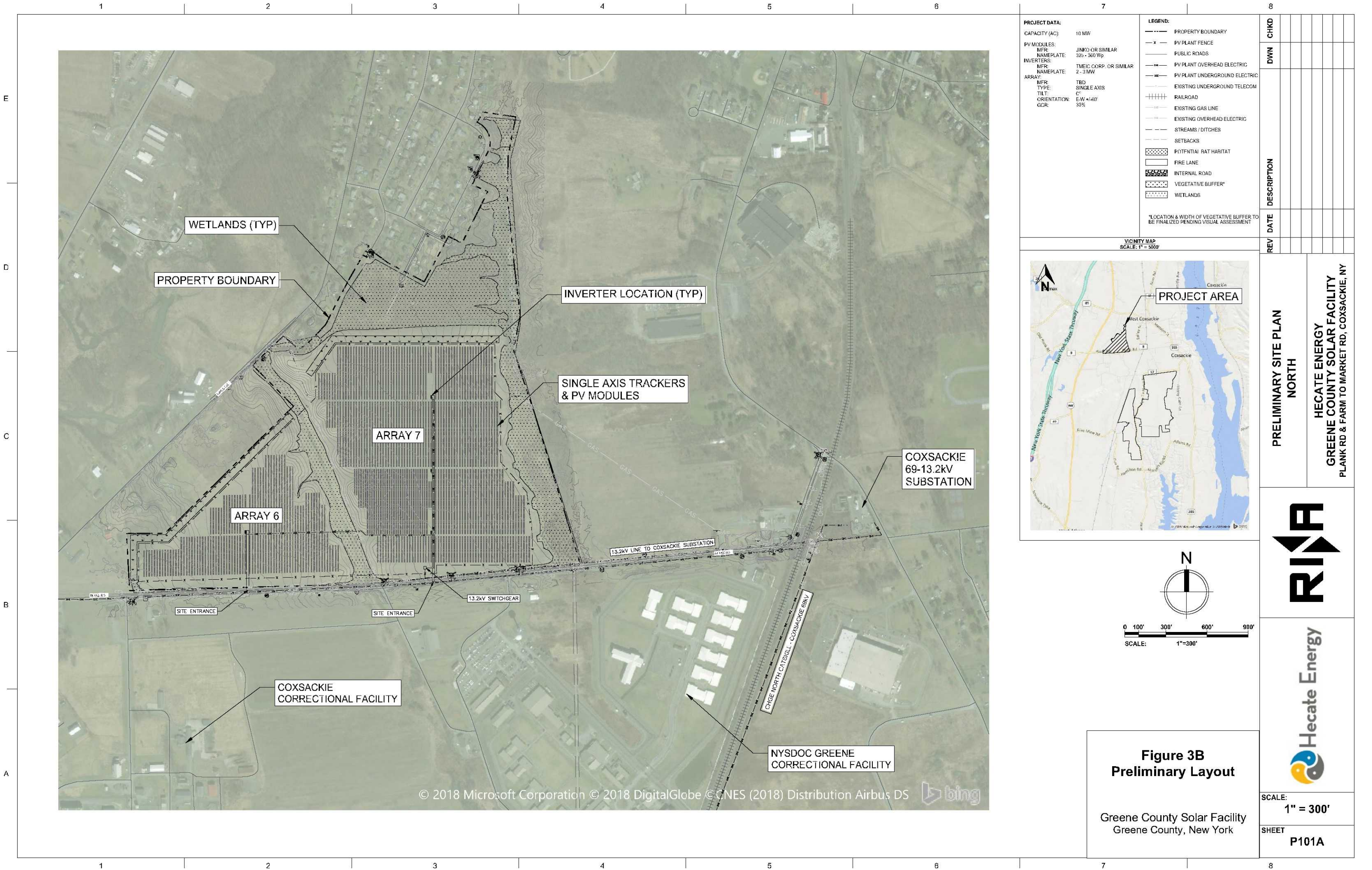
HECATE ENERGY  
GREENE COUNTY SOLAR FACILITY  
PLANK RD & FARM TO MARKET RD, COXSACKIE, NY



SCALE:  
1" = 600'

SHEET  
P100A





**PROJECT DATA:**

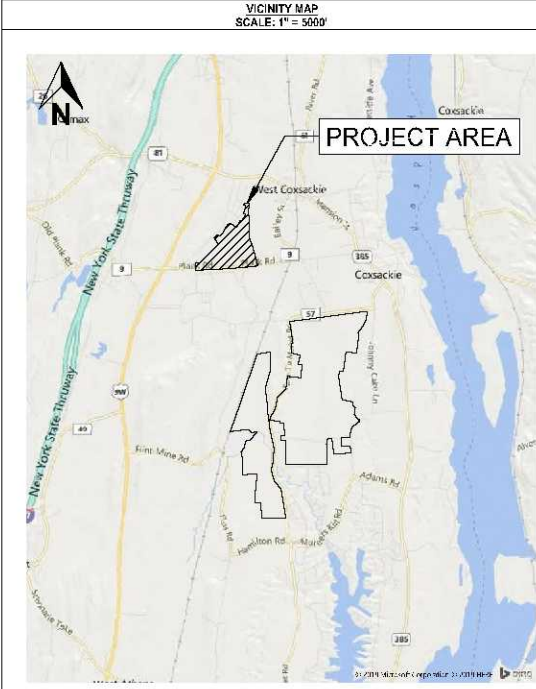
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PV MODULES:	JINKO OR SIMILAR 325 - 360 Wp
INVERTERS:	TMEIC CORP. OR SIMILAR 2 - 3 MW
ARRAY:	TBD
TYPE:	SINGLE AXIS
TILT:	6°
ORIENTATION:	E-W +/-40°
GCR:	33%

**LEGEND:**

---	PROPERTY BOUNDARY
-x-	PV PLANT FENCE
---	PUBLIC ROADS
---	PV PLANT OVERHEAD ELECTRIC
---	PV PLANT UNDERGROUND ELECTRIC
---	EXISTING UNDERGROUND TELECOM
+	RAILROAD
---	EXISTING GAS LINE
---	EXISTING OVERHEAD ELECTRIC
---	STREAMS / DITCHES
---	SETBACKS
...	POTENTIAL BAT HABITAT
---	FIRE LANE
---	INTERNAL ROAD
---	VEGETATIVE BUFFER*
...	WETLANDS

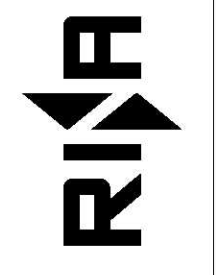
\*LOCATION & WIDTH OF VEGETATIVE BUFFER TO BE FINALIZED PENDING VISUAL ASSESSMENT

CHKD									
DWN									
DESCRIPTION									
REV									
DATE									



**PRELIMINARY SITE PLAN**  
**NORTH**

**HECATE ENERGY**  
**GREENE COUNTY SOLAR FACILITY**  
PLANK RD & FARM TO MARKET RD, COXSACKIE, NY



**Figure 3B**  
**Preliminary Layout**







Greene County Solar Facility  
Greene County, New York

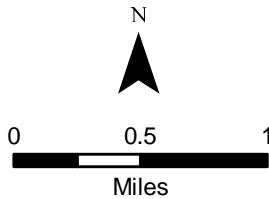
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SHEET	P101A



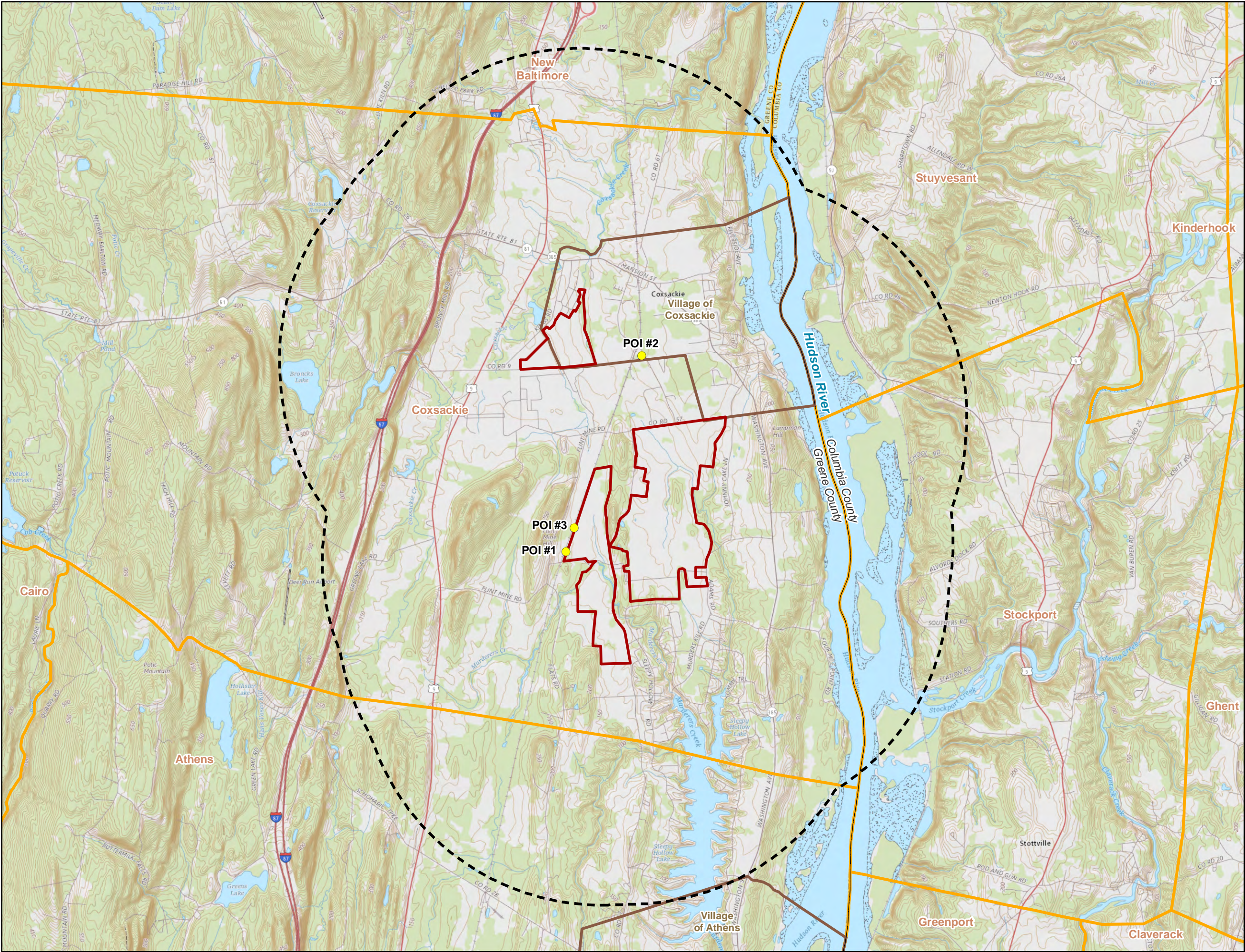
Figure 4  
Study Area

Greene County Solar Facility  
Greene County, New York

-  Facility Area
-  2-mile Study Area
-  Point of Interconnection (POI)
-  County Boundary
-  City/Town Boundary
-  Village Boundary



Source: ESRI, USGS

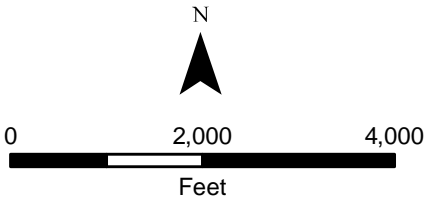




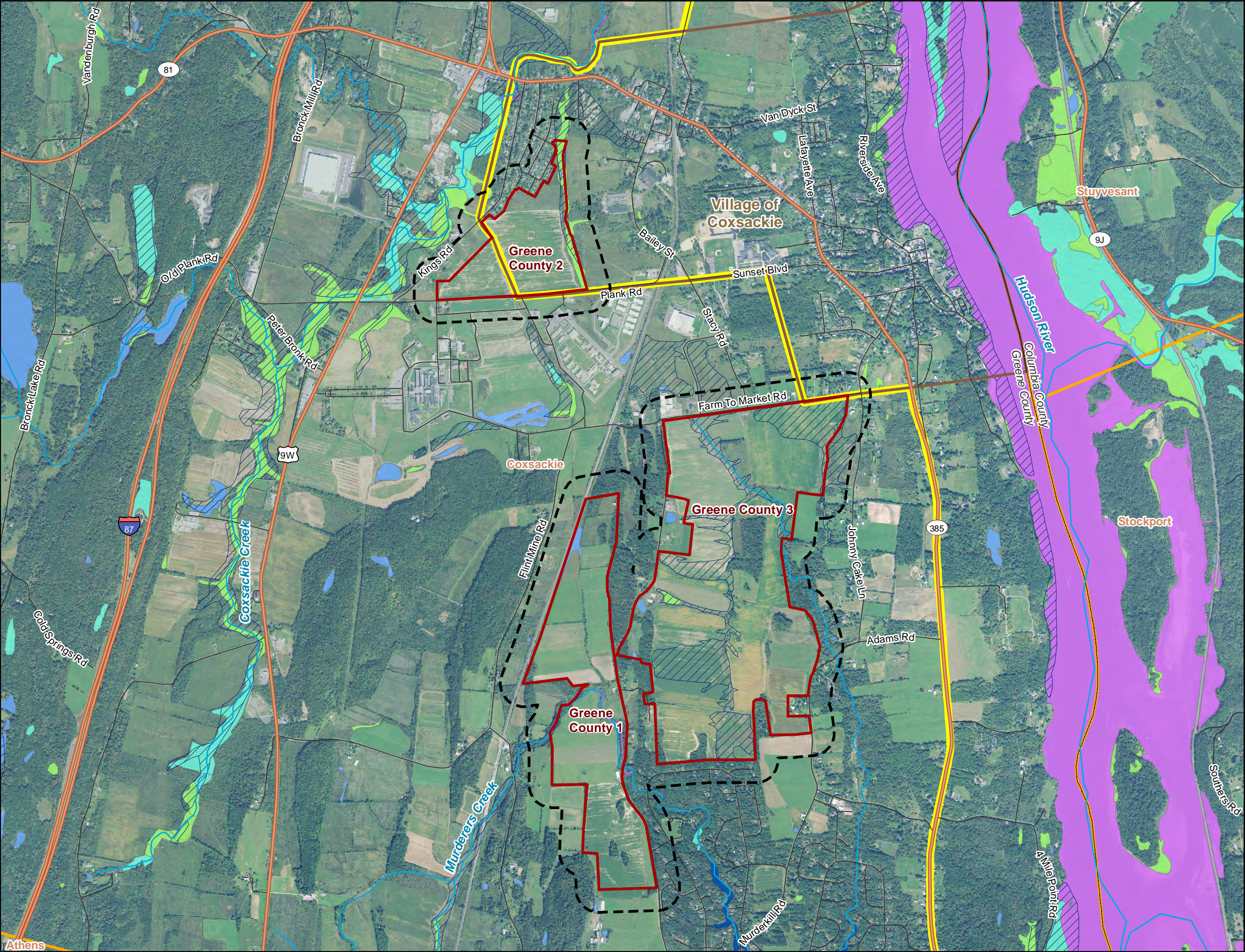
**Figure 5**  
**NWI and State-Mapped**  
**Wetlands and NYSDEC**  
**Coastal Zone**

Greene County Solar Facility  
Greene County, New York

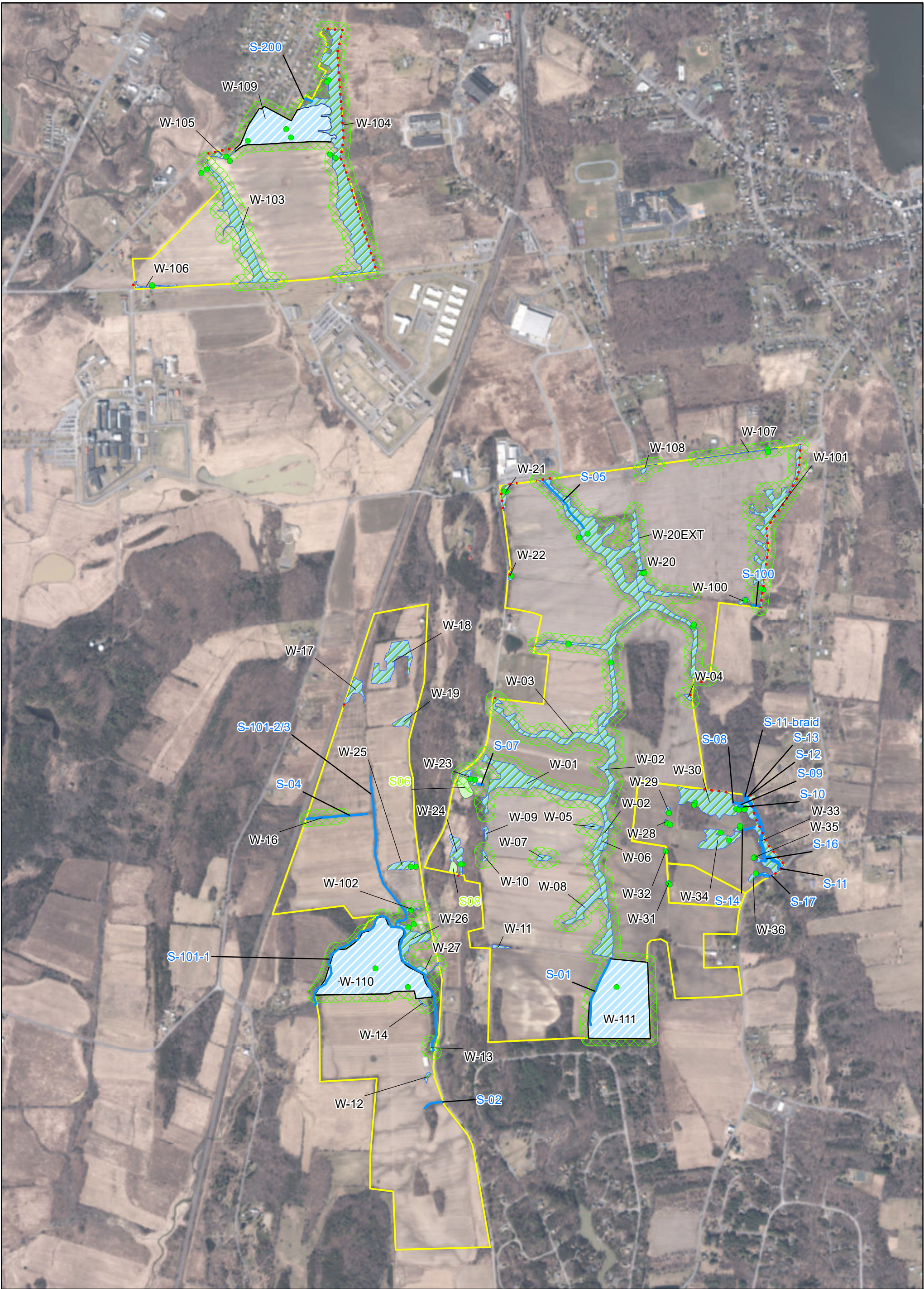
- Facility Area
- 500-foot Buffer
- Hudson River NYSDEC Coastal Zone Boundary
- County Boundary
- City/Town Boundary
- Village Boundary
- Major Road
- Local Road
- Waterway
- State-Mapped Wetlands
- NWI Wetland Type**
  - Freshwater Emergent Wetland
  - Freshwater Forested/Shrub Wetland
  - Freshwater Pond
  - Lake
  - Riverine



Source: ESRI, USDA NAIP, NWI





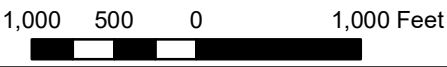


**Legend**

- Sample Station Locations
- Delineated Streams
- Wetland Continuation
- Delineated Ponds
- Facility Area
- Delineated Wetlands
- Field Reviewed Wetlands
- NYSDEC Wetlands Adjacent Area (100ft)

Source: Esri et. al., 2014; Hecate Energy, 2018

Coordinate System: North American Datum, 1983  
New York State Plane East FIPS 3101 Feet



**Figure 6**  
**Delineated Wetlands and Streams**

Greene County Solar Facility  
Greene County, New York

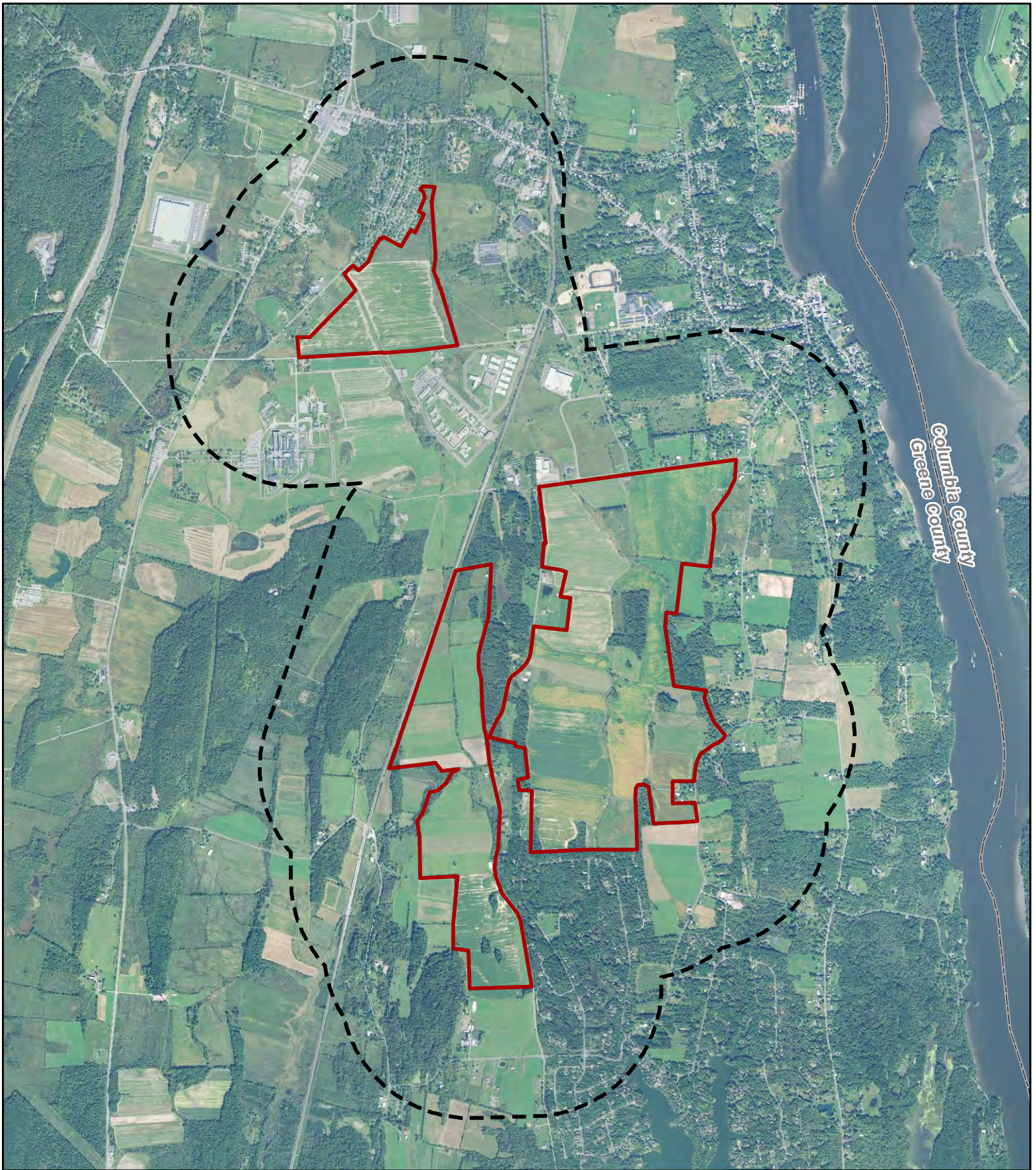






- Deciduous forest tree heights estimated to be 61.5'
- Coniferous forest tree heights estimated to be 52.5'

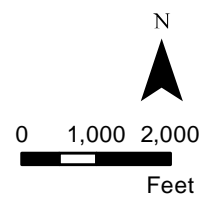
Greene County Solar Facility  
Greene County, New York





Legend

-  Facility Area
-  Environmental Justice Impact Study Area



**Figure 8**  
**Environmental Justice**  
**Impact Study Area**

Greene County Solar Facility  
Greene County, NY



## **APPENDIX A – MEETING LOG**

## Meeting Log (as of April 10, 2018)

### Greene County Solar Facility

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
Greene County Industrial Development Authority	01/30/17	Greene County Industrial Development Authority 270 Mansion St Coxsackie, NY 12051	René VanSchaack, Greene County Industrial Development Authority Richard Hanse, Coxsackie Supervisor Gabriel Wapner, Hecate Energy	Hecate met with town and county officials to introduce the project and discuss the permitting and PILOT processes.	Schedule follow-up meeting at appropriate time.	
New York State Division for Historic Preservation	08/30/17	New York State Division for Historic Preservation Peebles Island State Park Waterford, NY 12188-0189	Nancy Herter, New York State Division for Historic Preservation Philip Perazio, New York State Division for Historic Preservation Bonney Hartley, Stockbridge-Munsee Band of Mohicans Philip Mooney, Hecate Energy Gabriel Wapner, Hecate Energy Rob Peltier, TetraTech Fred Sellars, TetraTech	Hecate introduced the project scope to the representatives of New York State Division for Historic Preservation and the Stockbridge-Munsee Band of Mohicans	Conduct archaeology surveys on the project site	
Greene County Industrial Development Authority	10/30/17	Greene County Industrial Development Authority 270 Mansion St Coxsackie, NY 12051	René VanSchaack, Greene County Industrial Development Authority Gabriel Wapner, Hecate Energy	Discuss next steps in PILOT processes.	Hecate to make a PILOT application.	
Town of Coxsackie	11/09/17	Coxsackie Town Hall 16 Reed St Coxsackie, NY 12051	Coxsackie Town Board Approximately 10 Town Citizens Gabriel Wapner, Hecate Energy	Special public meeting to take comment on a potential solar project moratorium	None	Seven meeting attendees spoke against a moratorium one meeting attendee spoke in favor of a moratorium.
Town of Coxsackie	12/12/17	Coxsackie Town Hall 16 Reed St Coxsackie, NY 12051	Richard Hanse, Supervisor Thomas Burke, Councilman Patrick Kennedy, Councilman Michael Veeder, Councilman Linda Wilkinson, Councilwoman Bambi Hotaling, Town Clerk Robert Kline	Monthly Town Board Meeting		

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
			Larry Ross Nadine Myrdycz Dawn Smith Ernest K. Barkman Beau Dushane Tom Pucner Mary Skliba Barkman Mark Flach Gabriel Wapner, Hecate Energy			
Town of Coxsackie	01/18/18	Coxsackie Town Hall 16 Reed St Coxsackie, NY 12051	Bruce Haeussler, Planning Board Chairman Rick Hanse, Town Supervisor Mike Veeder, Town Councilman Philip Mooney, Hecate Energy Gabe Wapner, Hecate Energy	Discuss with the town leadership the Article 10 Process and their ability to participate in it.	Hecate to: -Continue discussion on local benefits -Provide an overview of how value flows to various stakeholders -Consider feasibility of working with a retail energy provider to arrange local access to energy generated	Town expressed the following: -Benefits to local community -Understanding the project structure, ownership, finances, etc. -Conversion of agricultural and hunting land -Impacts on property values and visual -Article 10 process may override Town's authority
Village of Coxsackie	01/24/18	Coxsackie Village Hall 119 Mansion St Coxsackie, NY 12051	Mark Evans, Mayor Village of Coxsackie Philip Mooney, Hecate Energy Gabe Wapner, Hecate Energy	Discuss with the village leadership the Article 10 Process and their ability to participate in it.	Hecate to: -Inquire about any Village solar ordinance -Discuss job creation benefits with the IDA	Mayor noted the following concerns: -Limited Village open space -Storm water drainage -Visual impacts to nearby residences -Public perception and benefits to locals
NYSDEC	01/25/18	Email	Gabriel Wapner to Paul Novak	Requested a meeting to discuss project	Scheduled stakeholder meeting for March 14, 2018	
Tessa Partridge	02/14/18	Voicemail from Tessa Partridge	Gabe Wapner responded to her voicemail and left her a voicemail on 2/15/2018			
Kristyne Martin	02/15/18	Email Correspondence from Kris Martin 1755 Farm to Market Road Coxsackie NY 12051	Kristyne Martin, Local Resident Jared Wren, Hecate Energy	Requested logistical information for Open House, 2/21/18, Jared Wren responded with requested information		
John Courtney	02/17/18	Email	John Courtney, Local Resident Jared Wren, Hecate Energy	Question regarding interconnect and the ultimate destination of power. Jared Wren responded with preliminary information.		
Greene County	02/21/18	Greene County Administrator Office 411 Main Street, 4th Floor Catskill, New York 12414	Shaun S. Groden, Administrator Edward I. Kaplan, Esq. Warren Hart, Director of Economic Development Raymond T. Ward, Director of Real Property Tax Philip Mooney, Hecate	Discuss with the Greene County leadership the Article 10 Process and their ability to participate in it.  Introduce Hecate and the project	Hecate to: -Provide parcel KMZ to Raymond Ward - Complete -Provide PSC letter to Mr. Groden to Edward Kaplan (Complete) -Keep the county updated on its PILOT process	

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
			Energy Gabe Wapner, Hecate Energy Jared Wren, Hecate Energy			
Local Residents	02/21/18	Coxsackie Village Hall 119 Mansion St Coxsackie, NY 12051	Philip Mooney, Hecate Energy Gabe Wapner, Hecate Energy Jared Wren, Hecate Energy Preston Schultz, Hecate Energy Fred Sellars, Tetra Tech Joseph Fischl, Tetra Tech Jenny Potrikus, Tetra Tech Sam Laniado, Read and Laniado Tyler Wolcott, Read and Laniado 73+ Local Residents, Sign-in Sheet Attached	Open house meeting to introduce the project to local residents, answer their questions and receive their feedback.	<p>A full project description will be provided in the PSS. Resource concerns noted by the public will be addressed in the PSS and the Article 10 Application.</p> <p>Hecate will investigate the website access and address the phone number issues (phone number issue has been corrected).</p> <p>Hecate indicated that the open house was the first time they reached out the public to provide project information and request feedback. They informed the public that they would have time to provide input over the next 18 months and encouraged their input throughout the entire Application process.</p> <p>Hecate will visit homes of local residents who can see the project and superimpose panels on photographs to provide a sense of how the project will look</p>	<p>Support:</p> <ul style="list-style-type: none"> <li>-Excitement to host a large renewable energy solar project</li> </ul> <p>Questions:</p> <ul style="list-style-type: none"> <li>-Benefits to the town?</li> <li>-Where does the energy go?</li> </ul> <p>Concerns raised:</p> <p><i>Project Description:</i></p> <ul style="list-style-type: none"> <li>-Project location selection</li> <li>-Size and scale</li> </ul> <p><i>Resources:</i></p> <ul style="list-style-type: none"> <li>-Viewshed impacts</li> <li>-Local benefits</li> <li>-Property values</li> <li>-Wildlife</li> <li>-Wetlands and environmental resources</li> <li>-Cultural resources</li> <li>-Town moratorium</li> <li>-Zoning</li> <li>-Public health</li> <li>-Cumulative impacts with surrounding proposed solar facilities</li> </ul> <p><i>General:</i></p> <ul style="list-style-type: none"> <li>-Project website and phone number issues</li> <li>-Lack of adequate time for the public to conduct due diligence</li> </ul>
Local Resident	02/21/18	Voicemail from 518-727-2412	Gabe Wapner, Hecate Energy	Request to update documents on project website	Documents were updated	
Kim Rose Tessa Partridge	02/22/18	2924 Rt 385, Coxsackie, NY 12051	Kim Rose, Local Resident Tessa Partridge, Local Resident Phil Mooney, Hecate Energy Gabe Wapner, Hecate Energy	<p>See the view Ms. Rose has of the proposed project site</p> <p>Take feedback and comments from Ms. Rose and Ms. Tessa</p>	Hecate to investigate alternative panel array layouts. suggested	<p>Both residents have their houses listed for sale</p> <p>Primary concern seemed to be project's impact on property values</p>
Tessa Partridge	02/22/18	1700 Farm To Market Rd, Coxsackie, NY 12051	Tessa Partridge, Local Resident Phil Mooney, Hecate Energy	See the view Ms. Partridge has of the proposed project site		
Lorraine Emerick, Local Resident	02/26/18	Email	Lorraine Emerick, Local Resident Jared Wren, Hecate Energy	Questions regarding project location, energy offtake, request for rendering	Hecate provided requested information, complete	

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
NYSERDA	02/27/18	Call	Brad Tito, Program Manager, Communities & Local Governments Gabe Wapner, Hecate Energy	Discuss the possibility of community choice aggregation for the project	NYSERDA	02/27/18
Kim Rose	03/03/18	Call	Kim Rose, Local Resident Gabe Wapner, Hecate Energy	Ms. Rose called to request the posters from the open house be posted on the project website.		The posters had already been posted and Gabe directed Ms. Rose to their location on the website.
NYSERDA	03/07/18	Call	Maureen Leddy, NYSERDA Liz Hana, NYSERDA Phil Mooney, Hecate Energy Jared Wren, Hecate Energy Gabe Wapner, Hecate Energy	Brief them on the Project.		NYSERDA has a great deal of resources to help local communities get informed about large scale renewables
Teresa Pigott	03/09/18	Call	Teresa Pigott, Local Resident Gabe Wapner, Hecate Energy	Coordinate meeting to see her view of the project	Visit her home on 3/14/2018	
Randall Squier	03/09/18	Call	Randall Squier, Local Resident Gabe Wapner, Hecate Energy	Gabe left a message with his assistant, inquired about a time to meet him to see his view of the project.	Randall to call Gabe back.	
Lorraine Emerick	03/12/18	Email	Lorraine Emerick, Local Resident  Jared Wren, Hecate Energy	Additional questions regarding project specifics. Jared Wren provided comments re: visual impact studies, etc.		Complete
Kim Rose	03/13/18	Email	Kim Rose, Local Resident	Kim requested to know the number of panels in the project via text message, Gabe responded via email.		
Donald Gardner	03/13/18	Email	Donald Gardner, Local Resident Gabe Wapner, Hecate Energy	Donald inquired with several questions and concerns. Gabe provided responses.		
Kim Rose	03/14/18	Call	Kim Rose, Local Resident Gabe Wapner, Hecate Energy	Kim called Gabe with several general questions about PV solar technology and PV solar projects. Gabe provided responses.		
Teresa Pigott David Pigott	03/14/18	2211 State Route 385 Athens, NY 12015	Teresa Pigott, Local Resident David Pigott, Local Resident Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy	See their view of the project, discuss possible mitigation, hear additional comments and concerns		Inform them if Tetra Tech would like to take a picture from their home for the visual impact assessment
Michael Tighe Brigid Tighe	03/14/18	2121 Farm to Market Rd, Cossackie, NY 12051	Michael Tighe, Local Resident Brigid Tighe, Local	See their view of the project, discuss possible mitigation, hear additional comments and concerns		

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
			Resident Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy			
Daily Mail	03/14/18	Call	Dan Zuckerman, Reporter Gabe Wapner, Hecate Energy	Hecate answered questions for a story the Daily Mail was writing about the project		
NYSDEC and Ag and Markets	03/14/18	625 Broadway, Albany, NY 12233-1750	Kristy Primeau, New York State Department of Environmental Conservation (NYSDEC) Michael Clark, NYSDEC Paul Novak, NYSDEC Brianna Denoncour, NYSDEC Georgette Walters, NYSDEC Jenny Murtaugh, NYSDEC Chris Hogan, NYSDEC Steve Allinger, NYSDEC Tara Wells, New York State Department of Agriculture and Markets Jeremy Rosenthal, New York State Department of Public Service (NYSDPS) Andrew Davis, NYSDPS Fred Sellars, Tetra Tech Joseph Fischl, Tetra Tech Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy	Hecate met with NYSDEC and Ag & Markets representatives to introduce the project and discuss any concerns regarding natural resources, wildlife, and agriculture.	Hecate completed the wetland delineation during the 2017 growing season.  Hecate indicated their willingness to complete longer-term monitoring of birds  Hecate to: -Complete breeding bird and raptor surveys, beginning during winter 2018 -Provide an important farmlands assessment for the Facility Area -Inquire with the landowner on farm production -Explore mitigation to offset impacts to agricultural production  NYSDEC to provide: -Meeting attendance sheet -GIS data for the Freshwater Wetlands located within/adjacent to the Greene County Solar project area. -Breeding Bird survey protocols and a sample data sheet for breeding grassland bird surveys). -Winter Raptor Survey Protocol	Concerns (NYSDEC): -Impacts to grassland birds -Fragmenting contiguous non-developed areas -Cumulative impacts to grassland bird habitat from other solar projects proposed for development in Greene County -Facility Area is an important winter concentration area for raptors  Requests/Recommendations (NYSDEC): -Consider multiple smaller fields vs. one large field -Re-arrange some panels to avoid the most sensitive bird habitats -Consult with the organized birding groups in the community such as Hudson Mohawk birding -Consult the Greene County Grassland Management Plan -Consult with the Greene Land Trust -Typical mitigation to control and manage bird habitat on other acreage would be a 1:1 ratio -Conduct longer-term (post-development) monitoring of birds -Wetland delineated report and formal Jurisdictional -Determination will be required -Complete breeding bird surveys during late spring/early summer and winter, and raptor surveys  Concerns (Ag & Markets): -Impact associated with taking active agriculture out of production  Requests/Recommendations (Ag & Markets): -Assessment to differentiate important farmlands within the Facility Area -Statistics on actual farm production of the Facility Area -Explore mitigation based on value of agricultural land taken out of production

Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
Daryl Yost	03/15/18	1667 Farm To Market Rd, Coxsackie, NY 12051	Daryl Yost, Local Resident Phil Mooney, Hecate Energy	See their view of the project, discuss possible mitigation, hear additional comments and concerns		Inform them if Tetra Tech would like to take a picture from their home for the visual impact assessment
Kris Martin	03/15/18	1755 Farm To Market Rd, Coxsackie, NY 12051	Kris Martin, Local Resident Phil Mooney, Hecate Energy	See their view of the project, discuss possible mitigation, hear additional comments and concerns		Inform them if Tetra Tech would like to take a picture from their home for the visual impact assessment
Town of Coxsackie	03/15/18	Coxsackie Town Hall 16 Reed St Coxsackie, NY 12051	Rick Hanse, Town Supervisor Gabe Wapner, Hecate Energy	Discuss topics raised by residents at the Town Board meeting on 3/13/18	Connect Rick with NYSERDA so he may inquire about the tools they have available	
NYSDPS	03/16/18	Empire State Plaza Agency Building 3 Albany, NY 12223-1350	Andrew Davis, NYSDPS Jeremy Rosenthal, NYSDPS Heather Behnke, NYSDPS Counsel Other Members of NYSDPS Staff (sign-in list to be obtained) Sam Laniado, Read and Laniado, LLP Joseph Fischl, Tetra Tech Bill Boer, Tetra Tech Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy	Hecate met with the NYSDPS to discuss potential concerns and required content of the PSS.	Invite NYSDPS (Andy Davis) to the upcoming meeting with NYSDOS regarding coastal consistency	Concerns: -Address coastal policies as they were recently revised -Route 385 is a scenic area of statewide significance and impacts will need to be addressed in Application -Any presence of Environmental Justice Areas within the immediate vicinity requires assessment; however the assessment is solely focused on air emissions -Potential cumulative impacts with proposed adjacent solar facilities (particularly Flint Mines) including visual, wetlands, traffic (if constructed at the same time) -Public education with a focus on benefits Recommendations: -Different distances may be proposed for different study areas, clearly indicate in each PSS exhibit -Propose certificate conditions in the Application -Review the Greene County Grassland Habitat Management Plan -Contact Greene Land Trust and Hudsonia for potential mitigation ideas -Address other proposed land uses as stipulated in Exhibit 4 -Hecate may team up with other projects to propose mitigation measures -Account for setbacks from existing rail in project design
Calvin Blowers	03/17/18	Text	Calvin Blowers, Local Resident Gabe Wapner, Hecate Energy	Calvin reached out to inquire about the availability of construction jobs for our project		
Jeremy Taylor	03/18/18	Email	Jeremy Taylor, Local Resident Gabe Wapner, Hecate Energy	Jeremy contacted Hecate to notify us of the discussion of our project in the local community	Gabe requested to introduce himself to Jeremy	



Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
Westchester Power	03/19/18	Call	Dan Welsh, Program Director Gabe Wapner, Hecate Energy	Hecate is exploring how it may be able to provide energy from its projects to host communities.  Hecate desired to learn more about the CCA program Dan runs and whether Westchester Power or an affiliate may be interested in running CCAs for the project host communities.		If the host communities were interested and willing in establishing CCA programs they possibly could choose to procure energy from Hecate's projects serving NYSERDA REC contracts
Hudsonia Ltd.	03/21/18	Call	Lea Stickle Gabe Wapner, Hecate Energy	Offered to meet with the organization to discuss our project.	Lea will have Erik Kiviat call Gabe back.	
Village of Coxsackie	03/21/18	Voicemail	Mark Evans, Mayor Gabe Wapner, Hecate Energy	Gabe left a voicemail offering to provide an update on the status of Hecate's project		
Scenic Hudson	03/21/18	Voicemail	Ned Sullivan, President Gabe Wapner, Hecate Energy	Left voicemail offering to meet with the organization to discuss our project.		
Scenic Hudson	03/21/18	Call	Anna D. Tetrault, Executive Assistant to the President Gabe Wapner, Hecate Energy	Anna confirmed Ned looks forward to meeting at the Scenic Hudson / NYSERDA conference on 3/28/2018		
Village of Coxsackie	03/21/18	Call	Mark Evans, Mayor Gabe Wapner, Hecate Energy	Update call		Concerns coming up: -Email on website may not be working (Hecate checked and it is) -Residents want to know "What are we getting out of it locally?"
Hudsonia Ltd.	03/22/18	Call	Erik Kiviat Gabe Wapner, Hecate Energy	Offered to meet with the organization to discuss our project.		
Scenic Hudson	03/27/18	The Henry A. Wallace Center at the FDR Presidential Library and Home 4079 Albany Post Road Hyde Park, NY 12538	Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy Ned Sullivan, President Audrey Friedrichsen, Land Use and Environmental Advocacy Attorney Seth McKee, Land Conservation Director	Solar Smart Hudson Valley: Building Clean Energy While Preserving Important Lands  Description Join us for an in-depth discussion on solar project regional planning in the Hudson Valley. Through interactive panel discussions and presentations, attendees will gain knowledge about current state policy and programs, market forces driving solar energy development in the Hudson Valley, designing solar energy projects, helping communities maximize renewable energy development, and developing a regional renewable energy plan. With the tools and information provided, participants will be better prepared to take actions that will make the Valley a regional model for reaching state targets to mitigate climate change, while simultaneously preserving the natural and economic assets. For more information, visit the website below.	Hecate and Scenic Hudson to arrange in person meeting to further discuss Hecate's projects in the Hudson Valley.	
Greene Land Trust	03/27/18	The Henry A. Wallace Center at the FDR Presidential Library	Gabe Wapner, Hecate Energy	Gabe introduced himself and requested to arrange a meeting with Greene Land Trust	Hecate to arrange meeting with Greene Land Trust	



Stakeholder	Date	Location	Attendees	Purpose	Follow-Up Action Items	Comments
		and Home 4079 Albany Post Road Hyde Park, NY 12538	Richard Guthrie, Greene Land Trust			
Coxsackie & Athens: Say NO to Residential Solar Farms	03/27/18	The Henry A. Wallace Center at the FDR Presidential Library and Home 4079 Albany Post Road Hyde Park, NY 12538	Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy Kim Rose, Coxsackie & Athens: Say NO to Residential Solar Farms	Phil and Gabe reminded Kim that they were available to answer questions or concerns she may have.		
Calvin Blowers	03/28/18	245 Mansion St, Coxsackie, NY 12051	Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy Calvin Blowers, Local Resident and Solar Installer	Mr. Blowers expressed interest in working on the construction of the project		
Coxsackie Town Board	03/29/18	16 Reed Street, Coxsackie, NY 12051	Gabe Wapner, Hecate Energy Coxsackie Town Board	Coxsackie Town Board Workshop Meeting		
Greene Land Trust	03/30/18	Email		Greene Land Trust requested to meet with the Greene County Solar team and Hecate responded that they would welcome the opportunity to meet.		
Scenic Hudson	03/30/18	Email	Gabe Wapner, Hecate Energy Phil Mooney, Hecate Energy Ned Sullivan, President Audrey Friedrichsen, Land Use and Environmental Advocacy Attorney Seth McKee, Land Conservation Director	Hecate requested Scenic Hudson provide times in April when they could be available to meet.		
NYSDOS	04/06/18			Hecate will discuss the potential impacts to the coastal boundary located within the Facility Area		

## **APPENDIX B – UPDATED STAKEHOLDERS LIST**

# Master List of Stakeholders

## STATE AND FEDERAL AGENCIES

### New York State Department of Agriculture and Markets

Richard Ball, Commissioner  
10B Airline Drive, Albany, NY 12235  
(585) 457-8876  
[info@agriculture.ny.gov](mailto:info@agriculture.ny.gov)

### New York State Department of Agriculture and Markets

Matthew Brower, Environmental Analyst  
10B Airline Drive, Albany, NY 12235  
(585) 457-2851  
[matthew.brower@agriculture.ny.gov](mailto:matthew.brower@agriculture.ny.gov)

### NYSDEC

Basil Seggos, Commissioner  
625 Broadway, Albany, NY 12233-1011  
[basil.seggos@dec.ny.gov](mailto:basil.seggos@dec.ny.gov)

### NYSDEC, Central Office

Daniel Whitehead, Director  
Division of Environmental Permits, Major Project Management  
625 Broadway, Albany, NY 12233-1750  
(518) 402-9167  
[deppermitting@dec.ny.gov](mailto:deppermitting@dec.ny.gov)

### NYSDEC, Region 4

Keith Goertz, Regional Director  
1130 North Westcott Road, Schenectady, NY 12306-2014  
(518) 357-2068  
[R4Info@dec.ny.gov](mailto:R4Info@dec.ny.gov)

### NYS Energy Research and Development Authority

Alicia Barton, President  
17 Columbia Circle, Albany, NY 12203  
(518) 862-1090  
[info@nyserda.ny.gov](mailto:info@nyserda.ny.gov)

### NYS Energy Research and Development Authority

Richard Kaufmann, Chair  
17 Columbia Circle, Albany, NY 12203  
(518) 862-1090  
[info@nyserda.ny.gov](mailto:info@nyserda.ny.gov)

### NYS Office of General Services

RoAnn Destito, Commissioner  
41<sup>st</sup> Floor, Corning Tower, Empire State Plaza, Albany, NY 12242  
(518) 474-3899  
[RoAnn.Destito@ogs.ny.gov](mailto:RoAnn.Destito@ogs.ny.gov)

### Empire State Development

Howard Zemsky, Commissioner  
633 Third Avenue, Floor 37, New York, NY 10017  
*Telephone number not available*  
[nys-nyc@esd.ny.gov](mailto:nys-nyc@esd.ny.gov)

### NYS Division of Homeland Security and Emergency Services

Jerome Hauer, Commissioner  
1220 Washington Ave., State Office Campus, Building 7A, Suite 710, Albany, NY 12242  
(518) 242-5000  
[website@dhses.ny.gov](mailto:website@dhses.ny.gov)

### New York State Office of Parks, Recreation, and Historic Preservation

Regional Director  
19 Roosevelt Drive, Saratoga Springs, NY 12866  
(518) 584-2535  
*Email not available*

### NYS Department of Public Service

James Denn, Public Information Officer  
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### NYS Department of Public Service

Lorna Gillings, Outreach Contact  
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### NYS Department of Public Service

Heather Behnke, Assistant Council  
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### NYS Department of Public Service

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**NYS Department of Public Service – Office of Electric, Gas and Water**

Andrew Davis  
3 Empire State Plaza, Agency Building 3, Albany, NY 12223  
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**NYS Department of State Office of Planning – Coastal Consistency Bureau**

One Commerce Plaza, 99 Washington Ave  
Albany, NY 12231-0001  
(518) 474-6000  
[opd@dos.ny.gov](mailto:opd@dos.ny.gov)

**NYS Department of Transportation, Region 1**

Sam Zhou, P.E., Regional Director  
Executive Office  
50 Wolf Road, Suite 1s50, Albany, NY 12232  
(518) 457-3522  
*Email not available*

**NYS Thruway Authority**

Bill Finch, Executive Director  
Administrative Headquarters  
200 Southern Blvd., P.O. Box 189, Albany, NY 12201  
(518) 436-2700  
*Email not available*

**New York Independent System Operator**

Michael Bemis, Board Chair  
10 Krey Boulevard, Rensselaer, NY 12144  
(518) 356-6060  
[stakeholderservices@nyiso.com](mailto:stakeholderservices@nyiso.com)

**Empire State Development Corporation**

Kenneth Tompkins, Mohawk Valley  
Regional Director  
207 Genesee Street Utica, NY 13501  
(315) 793-2366  
[nys-mohawkval@esd.ny.gov](mailto:nys-mohawkval@esd.ny.gov)

**Stockbridge-Munsee Community Band of Mohican Nation**

Shannon Holsey, Tribal President  
N8476 MoHeConNuck Road, Bowler, WI 54416  
(715) 793-4387  
[Shannon.holsey@mohican-nsn.gov](mailto:Shannon.holsey@mohican-nsn.gov)

**Saint Regis Mohawk Tribe**

412 State Route 37  
Akwasasne, NY 13655  
*Telephone number not available*  
[communications@srmt-nsn.gov](mailto:communications@srmt-nsn.gov)

**New York State Hudson River Valley Greenway Greenway Conservancy for the Hudson River Valley**

Kevin M. Burke, Acting Chair  
625 Broadway, 4<sup>th</sup> Floor, Albany, NY 12207  
(518) 473-3835  
[hrv@hudsongreenway.ny.gov](mailto:hrv@hudsongreenway.ny.gov)

**US Senate**

Kirsten E. Gillibrand, US Senator  
Leo W. O'Brien Federal Office Building, 11A Clinton Avenue, Room 821, Albany, NY 12207  
(518) 431-0120  
[invite@gillibrand.senate.gov](mailto:invite@gillibrand.senate.gov)

**US Senate**

Charles E. Schumer, US Senator  
Leo O'Brien Building, Room 420, Albany, NY 12207  
(518) 431-4070  
*Email not available*

**US House of Representatives**

John J. Faso, Representative, 19<sup>th</sup> Congressional District  
1616 Longworth HOB, Washington, DC 20515  
(202) 225-5614  
*Email not available*

**NYS Department of State**

Rossana Rosado, Secretary of State  
One Commerce Plaza  
99 Washington Avenue Albany, NY 12231-0001  
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[info@dos.ny.gov](mailto:info@dos.ny.gov)

**NY State Senate**

George A. Amedore, Jr., NY State Senator, 46<sup>th</sup> District  
Albany Office  
Legislative Office Building, Room 802, Albany, NY 12247  
(518) 455-2350  
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**New York State Assembly**

Assembly Member, 102<sup>nd</sup> District  
Albany Office  
LOB 402, Albany, NY 12248  
(518) 455-5363  
*Email not available*

**NYSDEC, Division of Environmental Permits**

Kristy E. Primeau, Environmental Analyst  
625 Broadway, Albany, NY 12233-1750  
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**Greene County Solar Facility**

Master List of Stakeholders

**NYSDEC**

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**New York State Department of Health**

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---

**RELEVANT LOCAL AGENCIES, HOST MUNICIPALITIES AND SCHOOL DISTRICTS, ADDITIONAL STAKEHOLDERS, AND  
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**Adjacent Landowner**

Tina M. Blowers  
134 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Richard Petti  
13435 Cedarville Way, Colorado Springs, CO 80921

**Adjacent Landowner**

Preston Lambert  
1344 Farm To Market Rd, Cossackie, NY 12051

**Adjacent Landowner**

Jon P. Rondeau  
135 Day St, Newington, CT 06111

**Adjacent Landowner**

Timothy Burke  
136 Clinton Ave, East Patchogue, NY 11772

**Adjacent Landowner**

Donna Lynn Sawchuk  
137 Brown St, Mineola, NY 11501

**Adjacent Landowner**

Michael Barberi  
138 Main St, Germantown, NY 12526

**Adjacent Landowner**

US Bank Trust NA  
13801 Wireless Way, Oklahoma City, OK 73134

**Adjacent Landowner**

John Lopez  
139 Kentucky Way, Freehold, NJ 07728

**Adjacent Landowner**

Arthur D. Hunt  
14 Apple Blossom Ln, Cossackie, NY 12051

**Adjacent Landowner**

Arthur D. Hunt  
14 Apple Blossom Ln, Cossackie, NY 12051

**Adjacent Landowner**

John Flanagan  
14 Essex Pl, Commack, NY 11725

**Adjacent Landowner**

Elizabeth A. O'Connor  
14 Horatio St Apt 7b, New York, NY 10014

**Adjacent Landowner**

Richard T. Harris  
14 Lakeview Rd, Poughkeepsie, NY 12603

**Adjacent Landowner**

Denis St James  
14 Luke St, Cossackie, NY 12051

**Adjacent Landowner**

Eileen Becker  
14 Matthew Ln, Cossackie, NY 12051

**Adjacent Landowner**

Lawrence E. Moats  
14 N Washington St, Athens, NY 12015

**Adjacent Landowner**

Edward C. Zimmer  
142 Natures Ln, Miller Place, NY 11764

**Adjacent Landowner**

David Andrasz  
145 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Paul Craw  
145 South River St, Cossackie, NY 12051

**Adjacent Landowner**

Darrigh F. Coleman  
1450 Worchester Rd Apt 8307, Framingham, MA 01702

**Adjacent Landowner**

Kathy M. Ventura  
1452 Farm To Market Rd, Cossackie, NY 12051

**Adjacent Landowner**

Chrysta L. McHale  
146 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Henry Sarraga  
147 E 8th St, Brooklyn, NY 11218

**Adjacent Landowner**

Richard Tomecek  
1476 Apenzell Ln, Lewisville, TX 75067

**Adjacent Landowner**

Robert Mabey  
148 Stacey Rd, Cossackie, NY 12051

**Adjacent Landowner**

Stephen Ritter  
149 Potic Creek Rd, Earlton, NY 12058

**Adjacent Landowner**

Paul Dolan  
1490 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Andrea Lambertson  
15 Andre Ct 2130, Athens, NY 12015

**Adjacent Landowner**

Joseph Chast  
15 Apple Blossom Ln, W Cossackie, NY 12192



**Adjacent Landowner**

Occupations Inc.  
15 Fortune Rd, W Middletown, NY 10941

**Adjacent Landowner**

Mary E. Taylor  
15 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

William McGuigan  
15 Legend Ct 2052, Athens, NY 12015

**Adjacent Landowner**

Joanne Riley  
15 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

HSK Properties LLC  
15 Scenic Dr South, Salem, NY 10590

**Adjacent Landowner**

Stanley Conklin  
15 Utopian Pl, Airmont, NY 10901

**Adjacent Landowner**

Kenneth A. Gifford  
15 Van Houten Dr, Athens, NY 12015

**Adjacent Landowner**

Richard Schwartz  
15 W 72nd St Apt 23S, New York, NY 10023

**Adjacent Landowner**

Anne M. Maresca  
151 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark Minshell  
152 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Faile LLC  
153 Green St, Brooklyn, NY 11222

**Adjacent Landowner**

Patricia Spordone  
1536 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Richard Oringer  
1541 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Robert D. Daley  
1542 Rt 300, Newburgh, NY 12550

**Adjacent Landowner**

Joseph M. Anderson  
1581 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Hyla Lynn Reed  
16 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Robert E. Haight III  
16 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Edward J. Sr Mudge  
16 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Sound Capital LLC  
1601 Veterans Memorial Hwy, Islandia, NY 11749

**Adjacent Landowner**

Daniel M. Kohler  
1604 Noral Pl, Alexandria, VA 22308

**Adjacent Landowner**

Jack Urso  
161 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

K4K LLC  
16192 Coastal Hwy, Lewes, DE 19958

**Adjacent Landowner**

Thomas A. Kingsley  
165 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Carmen E. Roldan  
16573 Nw 21St St, Pembroke Pines, FL 33028

**Adjacent Landowner**

Kevin S. Jung  
166 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

BNY Mellon Trust Co  
1661 Worthington Rd, West Palm Beach, FL 33409

**Adjacent Landowner**

Richard Wilson  
169 Adams St East, East Islip, NY 11730

**Adjacent Landowner**

Christopher J Schlenker  
1692 Rt 385, Athens, NY 12015

**Adjacent Landowner**

Marianne Mitchell  
17 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Mizrachi Family Inv LLC  
17 Bow St, Forest Hills, NY 11375

**Adjacent Landowner**

Genesis Ind Prop Management  
17 Industrial Park, Cocksackie, NY 12051

**Adjacent Landowner**

Isaiah Rockefeller  
17 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Barbara Levy  
17 Minor Ct, West Nyack, NY 10994

**Adjacent Landowner**

Joseph Jr Ferrara  
17 Pleasant Pl, Kearny, NJ 07032

**Adjacent Landowner**

Sheri L. Roberts  
172 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bruce J. Whittaker  
173 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Evita M. Fedoryszyn-Whittaker  
173 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Alfred R. Wypler  
1736 K St, Wall Township, NJ 07719

**Adjacent Landowner**

Sean Tilley  
1743 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Walter McGarry  
1762 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Charles E. Ray  
177 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Michael Belycia  
18 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Thomas E. Jr Callan  
18 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

William C. IV Farrand  
18 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Bajrush Hysenaj  
18 Reservoir Rd #2, Highland, NY 12528

**Adjacent Landowner**

Lamar Ware  
1801 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Wayne Window Corp.  
181 Broad St, Hawthorne, NY 10632

**Adjacent Landowner**

Gilbert Saez  
183 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Edward W. Konow  
1832 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Thomas Forschner  
186 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Linda J. Nacey  
1883 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas Sterritt  
1884 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Bryan Francett  
1890 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Steven James Erdmann  
1892 Sleepy Hollow Rd 2099, Athens, NY 12015

**Adjacent Landowner**

Sue B. Legg  
19 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Frank Micalizzi  
19 Encampment Pl, Ridgefield, CT 06877

**Adjacent Landowner**

S H Lake Trustee  
19 Grissom Dr, Clifton Park, NY 12065

**Adjacent Landowner**

William Pigott  
19 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Timothy J. Shutter  
19 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Kevin G. Mc Kee  
19023 Harbor Cove Ln, Cornelius, NC 28031

**Adjacent Landowner**

Hope Kellerhouse  
193 Pine Ln, Saugerties, NY 12477

**Adjacent Landowner**

Walter Bigler  
194 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Carl T. Cary  
196 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Anthony Washington  
196 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Paul D. Mintz  
1971 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Brett Conlin  
1975 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Wendy Dederick  
1987 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

Stephen Ko  
199 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Sarah Jane Smith  
2 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Steven Starke  
2 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Helen Matson  
2 Howard Dr, W Cocksackie, NY 12192

**Adjacent Landowner**

Sharon VanAlstyne  
2 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Seth F. Kunz  
2 Legend Ct, Athens, NY 12015

**Adjacent Landowner**

David A. Pratt  
2 Luke St, Cocksackie, NY 12015

**Adjacent Landowner**

Edward W. McDonald  
2 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Matthew Braden  
2 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Dennis T. Heines  
2 N Montgomery St, Athens, NY 12015

**Adjacent Landowner**

Sandra M. Petralia  
2 Tree Toad Ct, Athens, NY 12015

**Adjacent Landowner**

Vernon Jr Miller  
2 West Lakeview Trl, Wharton, NJ 07885

**Adjacent Landowner**

Lucas Morales  
2 Woodstone Ln, Palm Coast, FL 32164-7903

**Adjacent Landowner**

Michael Tozzi  
20 Ellen Ave, Mahopac, NY 10541

**Adjacent Landowner**

Anthony Sr Vining  
20 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Dale Lezatte  
20 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Kirsten Faltings  
20 Old Baltus Ct, Athens, NY 12015

**Adjacent Landowner**

Savatree Toolsie  
200 Claremont Ave 53, New York, NY 10027

**Adjacent Landowner**

Louise Menna Deyo  
200 Farm To Market Rd, Athens, NY 12015

**Adjacent Landowner**

Peter Poulin  
200 Old Siek Rd, Troy, NY 12180

**Adjacent Landowner**

Kevin Beiter  
2013 Sleepy Hollow Rd Unit 2129, Athens, NY 12015

**Adjacent Landowner**

Thomas M. Hobart  
203 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

William Geiss  
2059 Sleepy Hollow Rd, Athens, NY 12015

**Adjacent Landowner**

David L. Fowlkes  
207 Kingsboro 2Walk Apt4c, Brooklyn, NY 11233

**Adjacent Landowner**

Claudia Labuda  
209 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard Martin  
209 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Beverly Walker  
2097 Farm To Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Curtis E. Halsted  
21 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Megan N. Kreplin  
21 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Maria Sherman  
21 Shoal Dr, Barnegat, NJ 08005

**Adjacent Landowner**

Amelia Perrone Martino  
212 Leigh Anne Ln, Horse Shoe, NC 28742

**Adjacent Landowner**

Harley R. Johnson  
212 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Michael J. Tighe  
2121 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard L. Gibbs  
2151 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Tyrone Coleman  
2163 Farm to Market Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark L. Favicchio  
219 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mary Agnes Cronce  
22 Broadway, Amsterdam, NY 12010-8315

**Adjacent Landowner**

Clarence C. Smith  
22 Harder Rd, Woodstock, NY 12498

**Adjacent Landowner**

Jeanne L. Cary  
22 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

William Van Alstyne  
22 Paddlewheel Ct, Waterford, NY 12188-5001

**Adjacent Landowner**

Robert Dennis  
220 Dover Pt Rd, Dover, NH 03820

**Adjacent Landowner**

Cynthia A. Costello  
223 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Rosemary H. Muller  
224 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Penobscot Realty Trust II  
225 Water St Ste 226A, Plymouth, MA 02360

**Adjacent Landowner**

Beth Ann Clark  
226 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Brian Dereamer  
23 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

William P. McKee  
23 Bridle Ln, Hicksville, NY 11801

**Adjacent Landowner**

Robert Fisher  
23 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Cologero Migliara  
230 Evans Ave, Elmont, NY 11003

**Adjacent Landowner**

R & W Green Structures LLC  
2315 Rt 81, Earlton, NY 12058

**Adjacent Landowner**

Day Ross Holdings LLC  
2315 State Route 81, Earlton, NY 12058

**Adjacent Landowner**

Joseph Adrian  
232 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Ducommun Aerostructures NY Inc  
23301 S Wilmington Ave, Carson, CA 90745

**Adjacent Landowner**

William A. Ferenczy  
234 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Ruth-Ann Clark  
235 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

April Reese  
24 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Ronald Plass  
24 Brom Bones Ln Unit 1243, Athens, NY 12015

**Adjacent Landowner**

Jennifer Rudolph  
24 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Alexander Jr Mathes  
24 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Scott Barbeau  
242 Dodge St, Beverly, MA 00415

**Adjacent Landowner**

Stephen Reilly  
245 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Sking Inc  
245 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Steven T. Dragon  
2455 State Rt 385, Cocksackie, NY 12051-3104

**Adjacent Landowner**

Paul Randazzo  
25 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Pina Altobelli  
25 Fulmar Rd, Mahopac, NY 10541

**Adjacent Landowner**

James A. Miele  
25 Glenwood Ave, Hiawatha, NJ 07034

**Adjacent Landowner**

Matthew C. Lampman  
25 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Shaun S. Groden  
25 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Gerard A. Landi  
25 Market Ln Unit 1186, Athens, NY 12015

**Adjacent Landowner**

Stuart Osborn  
25 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph G. Limbach  
25 Tree Toad Rd #2084, Athens, NY 12015

**Adjacent Landowner**

Joseph C. Jr. Failla  
253 Blacksmith Rd, Levittown, NY 11756

**Adjacent Landowner**

Joseph Ecker  
254 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Bruce F. Kaiser  
2551 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Weidman's Enterprises Inc  
257 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Bryan J. Frisbee  
258 Mansion St Apt 2, Coxsackie, NY 12051

**Adjacent Landowner**

Michael Sutherland  
26 Apple Blossom Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Frank Villanova  
26 Heather Dr, Clifton Park, NY 12065

**Adjacent Landowner**

Sharon Riley  
26 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Alice Agasan  
2607 Heron Landing Ct, Orlando, FL 32837

**Adjacent Landowner**

Schultz Farm & Properties LLC  
261 Swartekill Rd, Highland, NY 12528

**Adjacent Landowner**

Federico Marano  
2610 Crossland Hills Dr, Winston Salem, NC 27106-9823

**Adjacent Landowner**

Jean B. Mattice  
263 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

John Capaccio  
266 E 211Th St, Bronx, NY 10467

**Adjacent Landowner**

Robert Lucido  
266 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Donna M. Gianola  
27 Apple Blossom Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Haydee R S. Macera  
27 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Natural Resource Upper Hudson-Northern Catskill  
270 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Michelle Niosi  
272 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Kenneth Curik  
272 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Chelsea Streifeneder  
2755 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Reuben C. Jacobs  
2759 Nw 47Th Ter, Ft Lauderdale, FL 33313

**Adjacent Landowner**

Roland H. Ray  
28 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Eugene Millett  
28 Hollister St, Coxsackie, NY 12051

**Adjacent Landowner**

Rodney Levine  
28 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

First Reformed Church  
284 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

First Reformed Protestant  
284 Mansion St, West Coxsackie, NY 12192

**Adjacent Landowner**

Adam B. Cole  
289 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

Joseph T. Jr Serignese  
29 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Anthony Monitto  
2900 St. Theresa Ave, Bronx, NY 10461

**Adjacent Landowner**

Francis J. Sapone  
2931 Rt 385, Coxsackie, NY 12051

**Adjacent Landowner**

Edward D. Jr. Ferenczy  
295 Mansion St, Cossackie, NY 12051

**Adjacent Landowner**

Clifford Gross  
296 Mansion St, Cossackie, NY 12051

**Adjacent Landowner**

Timothy Meier  
296 Route 51, Cossackie, NY 12051

**Adjacent Landowner**

Charles Schaefer  
2964 Route 385, Cossackie, NY 12051

**Adjacent Landowner**

Thomas Wexler  
297 Riverview Rd, Irvington, NY 10533

**Adjacent Landowner**

William T. Steele  
3 Appleblossom Ln, W Cossackie, NY 12192

**Adjacent Landowner**

Michael St. Germain  
3 Beechwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Alex Betke  
3 Greenwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Peter Wettingfeld  
3 Howard Dr, W Cossackie, NY 12192

**Adjacent Landowner**

Jacob N. Rulison  
3 John St, Cossackie, NY 12051

**Adjacent Landowner**

Fred Schomaker  
3 Matthew Ln, Cossackie, NY 12051

**Adjacent Landowner**

Patricia M. Scott  
3 Molly White Dr, Cossackie, NY 12051

**Adjacent Landowner**

William Goodine  
3 School St, Cossackie, NY 12051

**Adjacent Landowner**

Sunset Vista Mobile Vill LLC  
3 Shale Ln, Campbell Hall, NY 10916

**Adjacent Landowner**

Eugene Pellegrino  
3 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Anthony Gatt  
30 Apple Blossom Ln, W Cossackie, NY 12192

**Adjacent Landowner**

Amber C. Clark  
30 Castlepoint, Athens, NY 12015

**Adjacent Landowner**

Steven Lee  
30 Dorchester Rd, Ronkonkoma, NY 11779

**Adjacent Landowner**

Joyce Reilly  
30 Needle Park Cir Apt 6, Queensbury, NY 12804

**Adjacent Landowner**

Ari Ilan  
300 North End Ave Apt 17A, New York, NY 10282

**Adjacent Landowner**

Mark H. Flagler  
3033 Rt 385, Cossackie, NY 12051

**Adjacent Landowner**

Deborah Carr  
309 Mansion St, W Cossackie, NY 12192

**Adjacent Landowner**

Raymond A. Donovan  
311 Mansion St, W Cossackie, NY 12192

**Adjacent Landowner**

Paul T. Klein  
312 Bender Ln, Glenmont, NY 12077-2819

**Adjacent Landowner**

Natale McAuley  
313 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Rose A. Esposito  
316 Sloan Ct, Matawan, NJ 07747-4718

**Adjacent Landowner**

Frederick Donovan  
318 Mansion St, West Cossackie, NY 12192

**Adjacent Landowner**

Kenneth O. DeRose  
32 Apple Blossom Ln, W Cossackie, NY 12192

**Adjacent Landowner**

Bradley S. Schwebler  
32 Matthew Ln, Coxsackie, NY 12051

**Adjacent Landowner**

James Grundman  
32 Watermelon Hill Rd, Mahopac, NY 10541

**Adjacent Landowner**

Barrie R. Baum  
320 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Margaret M. Jones  
323 Adams Rd, Athens, NY 12015

**Adjacent Landowner**

Raymond Peter Jr Cary  
323 Mansion St, West Coxsackie, NY 12192

**Adjacent Landowner**

Ausrine Byla  
324 21st St #2, Brooklyn, NY 11215

**Adjacent Landowner**

Lance Palmateer  
324 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Robin Pascuzzi  
325 Mansion St, Coxsackie, NY 12051

**Adjacent Landowner**

John E. Halsted  
325 Medway Earlton Rd, Earlton, NY 12058

**Adjacent Landowner**

Katherine G. Hotaling  
3290 Rt 81, Surprise, NY 12176

**Adjacent Landowner**

Martina Gallagher  
3295 County Rt 21, Kinderhook, NY 12106

**Adjacent Landowner**

Keith Matson  
33 Apple Blossom Ln, W Coxsackie, NY 12192

**Adjacent Landowner**

Kevin Miller  
33 Haggerty Hill Rd, Rhinebeck, NY 12572

**Adjacent Landowner**

Dan Rubino  
331 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Jean Sagendorph  
333 E 80th St Apt 2H, New York, NY 10075-0664

**Adjacent Landowner**

Harold A. Hotaling  
333 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Mark C. Sr Flach  
334 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Cedar Shade Farm LLC  
334 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Stewart Seaburg  
335 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Joseph O. Skilba  
337 Murders Kill Rd, Athens, NY 12015

**Adjacent Landowner**

Kathryn Mccoach  
339 Lake Dr Lake, Peekskill, NY 10537

**Adjacent Landowner**

Karl Kilts  
34 Apple Blossom Ln, West Coxsackie, NY 12192

**Adjacent Landowner**

Bonnie JeanAntonucci Cordaro  
34 Smith Crossing Rd, Wappinger Falls, NY 12590

**Adjacent Landowner**

Jill Marie Mcquade  
340 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

Michael D. Deering  
341 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Rocco Cristina  
345 Herricks Dr, New Hyde Park, NY 11040

**Adjacent Landowner**

Eva Rosato  
348 Mansion St, W Coxsackie, NY 12192

**Adjacent Landowner**

Jonathan Snowden  
349 Adams Rd, Coxsackie, NY 12051



**Adjacent Landowner**

Edward McDonald  
35 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Anthony J. Iannaccone  
35 Fresh Pond Ln, Southampton, NY 11968

**Adjacent Landowner**

Scott A. Sitzer  
35 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

John Manca  
35 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Michael B. Wilhelmsen  
350 Mansion St, West Cocksackie, NY 12192

**Adjacent Landowner**

Mark A. Andersen  
351 Potic Creek Rd, Earlton, NY 12058

**Adjacent Landowner**

Richard E. Brand  
352 Oldham Rd, Wayne, NJ 07470

**Adjacent Landowner**

Edwin Schultz  
355 Scheller Park Rd, W Cocksackie, NY 12192

**Adjacent Landowner**

Sean J. McCarthy  
357 West 55th St Apt 1J, New York, NY 10019

**Adjacent Landowner**

Donna J. Ames  
358 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Jennifer Candelaria  
36 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Judith M. Miller  
36 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Earlean Golson  
36 Edgecomb Ave, New York, NY 10030

**Adjacent Landowner**

Domenick J. Costanzo  
36 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

John Riley  
360 Kings Rd, Cocksackie, NY 12051-3621

**Adjacent Landowner**

Paula Stenzler  
3612 Matira Ct, Cleront, FL 34711

**Adjacent Landowner**

Darren Cordeau  
368 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Scott M. Bennett  
37 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Patrick G. West  
37 New St, Cocksackie, NY 12051

**Adjacent Landowner**

Aaron's Assets Inc  
370 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Shamsu Uddin Ahmed  
37-06 72nd St Apt 1C, Jackson Heights, NY 11372

**Adjacent Landowner**

Barbara Weinstein  
373 Murderskill Rd, Athens, NY 12015

**Adjacent Landowner**

Herbert Moore  
378 Mansion St, W Cocksackie, NY 12192

**Adjacent Landowner**

Charles A. Martinez  
38 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bradley Fay  
38 Haunted Cir, Athens, NY 12015

**Adjacent Landowner**

Navin Singh  
38 Ichabod Crane Cir, Athens, NY 12015

**Adjacent Landowner**

Linda Perry  
382 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

John Busch  
3833 Bailey Ave, Bronx, NY 10463

**Adjacent Landowner**

Danl Donovan  
384 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Daniel J. Bonge  
386 Massapequa Ave, Massapequa, NY 11758

**Adjacent Landowner**

Michelle L. Bonesteel  
387 County Rt 403, Greenville, NY 12083

**Adjacent Landowner**

Henry Palmer  
39 Apple Blossom Ln, Cosackie, NY 12051

**Adjacent Landowner**

George H. Jr Call  
39 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mark Horn  
39 Washington Ave, Cocksackie, NY 12015

**Adjacent Landowner**

Paksiu Chiu  
39-16 50th St, Woodside, NY 11377

**Adjacent Landowner**

Ronald F. Hotaling  
396 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Stephen Salluce  
396 Murderkill Rd, Athens, NY 12015

**Adjacent Landowner**

Derek J. Vasapollo  
398 B Turnpike St, South Easton, MA 02375

**Adjacent Landowner**

Derek J. Vasapolio  
398B Turnpike St, South Easton, NY 02375

**Adjacent Landowner**

Brenda Livingston  
4 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Guy W. Hazelton  
4 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Jonathan E. Kelly  
4 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

David Hynes  
4 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Ryan Burdick  
4 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Mary Patricia Leonard  
4 Lawrence Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Jonathan Meier  
4 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

India Fitzgerald  
4 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas E. Chewins  
4 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Erich A. Schubert  
4 Rt 42, Cocksackie, NY 12051

**Adjacent Landowner**

Catherine M. O'Keefe  
4 Washington Ave, Hampton Bays, NY 11946

**Adjacent Landowner**

Michele A. Bowman  
4 Wolf Ct Unit 1185, Athens, NY 12015

**Adjacent Landowner**

Edward Greenaway  
40 Church St, Cocksackie, NY 12051

**Adjacent Landowner**

Richard Jr Welch  
40 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Richard J. Bruno  
402 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Donna Heath  
41 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Stephen Wilson  
41 Morningside Rd, Verona, NJ 07044

**Adjacent Landowner**

Michael De Pietro  
41 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

County of Greene  
411 Main St, Catskill, NY 12142

**Adjacent Landowner**

State Of New York  
411 Main St, Catskill, NY 12414

**Adjacent Landowner**

County of Greene  
412 Main St, Catskill, NY 12414

**Adjacent Landowner**

Aleksander Myftarago  
415 92nd St Apt 1L, Brooklyn, NY 11209

**Adjacent Landowner**

Joseph Viggiani  
42 Revere Rd, Ardsley, NY 10502

**Adjacent Landowner**

Lawrence Conforti  
423 Stewart Ave, Bellmore, NY 11710

**Adjacent Landowner**

Nicholas P. LaFountain  
43 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Rachel LaFountain  
43 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Robert J. Sr Van Valkenburg  
43 Johnny Cake Ln, Coxsackie, NY 12051

**Adjacent Landowner**

David Nye  
43 Lockwood Pl, Clifton, NJ 07012

**Adjacent Landowner**

David Walsh  
43 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

James Cramer  
43 Van Brunt Dr, Athens, NY 12015

**Adjacent Landowner**

Francis Hefferin  
43 Wendover Dr, Huntington, NY 11743-2034

**Adjacent Landowner**

Ronald D. Vinson  
437 Pelham Rd, New Rochelle, NY 10805

**Adjacent Landowner**

Paul A. Sutton  
44 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

Jay F. Derby  
442 North Quaker Ln, Hyde Park, NY 12538

**Adjacent Landowner**

Jimmie Womack  
442 Plymouth Ave, Schnectady, NY 12308

**Adjacent Landowner**

Charles E. Irvis  
45 Bailey St, Coxsackie, NY 12051

**Adjacent Landowner**

Ronald M. Daoust  
45 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Robert J. Ihlenburg  
451 E Allen St, Hudson, NY 12534

**Adjacent Landowner**

Gerald P. Jr Griffin  
46 Lafayette Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Antonio C. Nepomuceno  
46-03 211th St, Bayside, NY 11361

**Adjacent Landowner**

Fernando Babbino  
47 Brenden Ct, Clifton Park, NY 12065

**Adjacent Landowner**

James Kennedy  
47 Sutton Pl, Coxsackie, NY 12051

**Adjacent Landowner**

Charles Maggio  
472 North Country Rd, St James, NY 11780

**Adjacent Landowner**

Dean Buchanan  
474 Schoharie Tpke, Athens, NY 12015

**Adjacent Landowner**

Charles A. Martinez  
48 Flint Mine Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Gordon W. Bennett  
48 Johns Jog #1156, Athens, NY 12015

**Adjacent Landowner**

Shelsamco Inc  
48 Maple St, Blue Point, NY 11715

**Adjacent Landowner**

Ann Benenati  
49 Henry St, Selden, NY 11784

**Adjacent Landowner**

Evangline Sofia Eddy  
49 Ichabod Crane Cir, Athens, NY 12015

**Adjacent Landowner**

Alice Maxstadt  
49 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Bruce Baxter  
49 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Shirley A. Eglen  
4905 Ashford Dr, Upper Marlboro, MD 20772

**Adjacent Landowner**

Brian Daggett  
499 Shady Ln, Coeymans Hollow, NY 12046

**Adjacent Landowner**

Chad Barrett  
5 Apple Blossom Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Linda Spano  
5 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Robert Cole  
5 Catskill Ct, Athens, NY 12015

**Adjacent Landowner**

Charles Herwick  
5 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Leighton Herron  
5 Grossman St, Melville, NY 11747

**Adjacent Landowner**

Goerge Link  
5 Harbor Ct, Copaigue, NY 11726

**Adjacent Landowner**

Oscar Valencia  
5 Howard Dr, W Cocksackie, NY 12192

**Adjacent Landowner**

Stephen Buhrke  
5 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Dominic J. Yannazzone  
5 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

Roger Burdick  
5 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Charles J. Van Alphen  
5 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Mary A. Williams  
5 Morningside Dr, Delmar, NY 12054

**Adjacent Landowner**

Letizia Cirino  
5 Munson Rd, Pleasantville, NY 10570

**Adjacent Landowner**

Aierle T. Dickson  
5 Railroad Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Dominic Konsul  
5 School St, Cocksackie, NY 12051

**Adjacent Landowner**

Marie Taylor  
50 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Vincent DiBenedetto  
50 Redwood Ave, Staten Island, NY 10303

**Adjacent Landowner**

James W. McKenney  
50 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Steven R. Muller  
500 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

James Chiudina  
51 Brom Bones Ln, Athens, NY 12015

**Adjacent Landowner**

Dean L. Hanson  
51 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Richard K. Hanse  
51 Sutton Pl, Cossackie, NY 12051

**Adjacent Landowner**

Camilo Alvarez  
514 East 9Th St, Brooklyn, NY 11218

**Adjacent Landowner**

Johnny Skalski  
52 Edgewood Ave, New Providence, NJ 07974

**Adjacent Landowner**

Sylvia J. Wendover  
52 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Jean Salisbury  
52 Salisbury Rd, Cossackie, NY 12051

**Adjacent Landowner**

Michael J. Jr. McHale  
52 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Victoria D. Connolly  
53 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Timothy E. Boakes  
531 Adams Rd, Cossackie, NY 12051

**Adjacent Landowner**

Richard Dambra  
54 Christine Ct, Stormville, NY 12582

**Adjacent Landowner**

Evelyn E. Diaz  
54 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Richard C. Bauer  
54 Van Houten Dr, Athens, NY 12015

**Adjacent Landowner**

Anthony Olivieri  
540 Kissam Rd, Peekskill, NY 10566

**Adjacent Landowner**

Sheila M. Ditchfield  
55 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

James Edge  
55 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

John Jr DeRuggiero  
55 Rte 66 East St, Kerhonkson, NY 12446

**Adjacent Landowner**

Darryl Proper  
55 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Alexander Ritter  
552 Adams Rd, Cossackie, NY 12051

**Adjacent Landowner**

Ralph Lento  
56 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Edward Tompkins  
56 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Jack Utano  
56 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

Thomas Meier  
56 Mile Square Rd, Yonkers, NY 10701

**Adjacent Landowner**

Eulalia Gonzales  
5650 Netherland Ave, Riverdale, NY 10471

**Adjacent Landowner**

John F. Benson  
57 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

John P. De Luca  
57 Fallen Tree Ln #1117, Athens, NY 12015

**Adjacent Landowner**

G Family Properties LLC  
57 Townsend Rd, Wanaque, NJ 07465

**Adjacent Landowner**

Daniel Meier  
576 Flint Mine Rd, Cossackie, NY 12051

**Adjacent Landowner**

Robert C. Desrosiers  
58 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Kenneth Donofrio  
58 Longdale St, Staten Island, NY 10314

**Adjacent Landowner**

Daniel F. Westfall  
58 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Roger Rice  
580 Adams Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Douglas Koch  
59 Flats Rd, Athens, NY 12015-4800

**Adjacent Landowner**

Jennifer E. Lindstrom  
59 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

Barton F. Wallace  
59 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Michelle A. Santos  
59 West Bridge St, Catskill, NY 12414

**Adjacent Landowner**

Donald S. Van Schaack  
6 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Colan Warden  
6 Aron Dr Apt 3, Cocksackie, NY 12051

**Adjacent Landowner**

Terence E. Lein  
6 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Maria Dusevic  
6 Gail Ln, Poughquag, NY 12570

**Adjacent Landowner**

Gregory Hajduk  
6 Genesee Ave, Lake Katrine, NY 12445

**Adjacent Landowner**

LKBD Company LLC  
6 Greenbrair Ln, Dix Hills, NY 11746

**Adjacent Landowner**

Wayne G. Parrow  
6 Greenwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

John V. Kusisto  
6 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Allan Ingram  
6 John St, Cocksackie, NY 12051

**Adjacent Landowner**

Alfred Williams  
6 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Kathleen P. VanFonda  
6 Luke St, Cocksackie, NY 12051

**Adjacent Landowner**

Gail Fredenburgh  
6 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Erik Marsilio  
6 Raymond St, Cocksackie, NY 12051

**Adjacent Landowner**

Jennifer Lento  
60 Church St, Cocksackie, NY 12051

**Adjacent Landowner**

James M. Peek  
60 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Janet A. Lyons  
60 Sparrow Ridge Rd, Carmel, NY 10512

**Adjacent Landowner**

Dale S. Palmer  
60 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Franco Marano  
60 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Donniel Schulman  
61 Deal St, Harrington Park, NJ 07640

**Adjacent Landowner**

Bruce A. Coscia  
61 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Pennymac Loan Services LLC  
6101 Condor Dr, Moor Park, CA 93021

**Adjacent Landowner**

Northeast Wind Projects LLC  
615 Vanderlyn Ln, Slingerlands, NY 12159

**Adjacent Landowner**

David L. Parella  
62 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Barry J. Brandow  
62 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

James J. Mcdermott  
62 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Vincent Pepe  
628 Empire Ave, North Babylon, NY 11703

**Adjacent Landowner**

Ann Curtis  
63 Dame Van Winkle Cir, Athens, NY 12015

**Adjacent Landowner**

Steven J. Hales  
63 Kings Rd, Cossackie, NY 12051

**Adjacent Landowner**

John E. Morrone  
63 Pembroke Dr, Mineola, NY 11501-2121

**Adjacent Landowner**

Alexandra N. Reuter  
63 Sutton Pl, Cossackie, NY 12051

**Adjacent Landowner**

Sheryl Ann Konsul  
64 Church St, Cossackie, NY 12051

**Adjacent Landowner**

JCJM Cossackie LLC  
64 Hinrichsen Hts, Cossackie, NY 12051

**Adjacent Landowner**

S Sadlon  
64 Lupine Way, Stirling, NJ 07980

**Adjacent Landowner**

Florette Barror  
65 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Kenn E. Dittmar  
65 Hamilton Rd, Athens, NY 12015

**Adjacent Landowner**

Michael Bernholz  
65 Red Maple Rd, Shokan, NY 12481

**Adjacent Landowner**

Kim VanAusdle  
66 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Robert T. De Luca  
66 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Stephen Nelson  
67 Washington Ave, Cossackie, NY 12051

**Adjacent Landowner**

Perry M. Lasher  
68 Church St, Cossackie, NY 12051

**Adjacent Landowner**

Wais Properties LLC  
683 Farm to Market Rd, Athens, NY 12015

**Adjacent Landowner**

Christopher R. Bourguignon  
69 Ely St, Cossackie, NY 12051

**Adjacent Landowner**

Michael Bland  
7 Apple Blossom Ln, Cossackie, NY 12051

**Adjacent Landowner**

Michael J. Kratochwill  
7 Beechwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Foursilli Dev Corp  
7 Brad St, Delmar, NY 12054

**Adjacent Landowner**

David Perilli  
7 Greenlawn Rd Cortland Manor, NY 10567

**Adjacent Landowner**

Joseph Marafioti  
7 Greenwood Dr, Cossackie, NY 12051

**Adjacent Landowner**

Karen L. Olthaus  
7 Howard Dr, W Cossackie, NY 12192

**Adjacent Landowner**

Thomas E. Jr Messick  
7 Luke St, Cossackie, NY 12051

**Adjacent Landowner**

Brent E. Bogardus  
7 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Garry J. Palmer  
7 Pheasant Ln, Catskill, NY 12414

**Adjacent Landowner**

Carla Picayo  
7 S Warren St, Athens, NY 12015

**Adjacent Landowner**

Ronald M. Daoust  
7 School St, Cocksackie, NY 12051

**Adjacent Landowner**

Louis A. Jr. Van Zutphen  
7 Sleepy Ct #1009, Athens, NY 12015

**Adjacent Landowner**

Edward S. Jr Tuttle  
7 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Mark Nadolne  
7 Tulip Ln, Port Washington, NY 11050

**Adjacent Landowner**

Eric R. Carlson  
7 Will Palmer Rd, Catskill, NY 12414

**Adjacent Landowner**

Andrew A. Berlin  
70 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas Friel  
70 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Edward A. Lee  
70 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph Jr Wikar  
71 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

David Dorpfeld  
71 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

Gary Hillicoss  
71 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Glisobel M. Gonzalez  
72 Thiells Rd, Stony Point, NY 10980

**Adjacent Landowner**

David F. Tyner  
72 Van Houten Dr 2161, Athens, NY 12015

**Adjacent Landowner**

Stephen E. Daniel  
723 Jerome St, Brooklyn, NY 11207

**Adjacent Landowner**

Angela F. Gagliardo  
730 Willow Rd, Lancaster, PA 17601

**Adjacent Landowner**

Gary A. Walkley  
745 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Carlos A. Rivera  
75 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

Jean Nadler  
75 Randy Rd Unit 1036, Athens, NY 12015

**Adjacent Landowner**

Randall W. Squier  
75 Sutton Pl, Cocksackie, NY 12051

**Adjacent Landowner**

George Anderson  
753 Durant Ave, Staten Island, NY 10308

**Adjacent Landowner**

Sal Van Gelder  
7569 Las Couces Ct, Boynton Beach, FL 33437

**Adjacent Landowner**

Roger R. Wood  
76 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

John Stumpf  
76 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph P. Sluszka  
77 Bailey St, Cocksackie, NY 12051

**Adjacent Landowner**

April D. Wildey  
77 Kings Rd, Cocksackie, NY 12051



**Adjacent Landowner**

Doris Horn  
77 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Bryan Sweeney  
77-17 250th St, Bellerose, NY 11428

**Adjacent Landowner**

Matthew Dorr  
78 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Colleen Ogilvie  
79 Gendron Dr, Wells, ME 04090

**Adjacent Landowner**

Frank V. Jr Hussey  
8 Apple Blossom Ln, West Cocksackie, NY 12192

**Adjacent Landowner**

Alan C. Mingo  
8 Bart Dr, Canton, CT 06019

**Adjacent Landowner**

Thomas J. Olivett  
8 Beechwood Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Jason A. Irwin  
8 Hollister St, Cocksackie, NY 12051

**Adjacent Landowner**

Paul Candelaria  
8 Howard Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Julie A. Silvestri  
8 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Shawn A. Clouthier  
8 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Catherine E. Sossei  
8 Orchard Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Jorge Luis Rivera  
8 Whitbeck St, W Cocksackie, NY 12192

**Adjacent Landowner**

Joseph J. Berlin  
80 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Bryan Riley  
80 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Rhonda Riley  
80 Johns Jog, Athens, NY 12015

**Adjacent Landowner**

Annette De Luccy  
80 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

St Mary's Catholic Church  
80 Mansion St, Cocksackie, NY 12051

**Adjacent Landowner**

Cocksackie Housing Dev Fund Co  
800 Bethany Village, West Cocksackie, NY 12192

**Adjacent Landowner**

Melvin O. Parker  
8000 Shore Front Pkwy, Rockaway Beach, NY 11693

**Adjacent Landowner**

Jose L. Carrera  
81 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Matthew J. Lonero  
81 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

William H. Schaefer  
81 New St, Cocksackie, NY 12051

**Adjacent Landowner**

Donald F. Jr Quinlivan  
819 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Lyden Enterprises LLC  
82 Farm Rd, Copake, NY 12516

**Adjacent Landowner**

Dorothy Smith  
82 Flint Mine Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Mid Me Re LLC  
82 Westview Rd, Damariscotta, ME 04543

**Adjacent Landowner**

Annette J. Kasenko  
84 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Stanley R. Whitbeck  
84 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Dale Sutton  
85 B G Partridge Rd, Windham, NY 12496

**Adjacent Landowner**

Howard J. D'arcangelis  
85 Ely St, Cocksackie, NY 12051

**Adjacent Landowner**

Brian J. Moore  
85 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Salisa Baraichi-Pinon  
85 Topland Rd, Mahopac, NY 10541

**Adjacent Landowner**

David Myer  
86 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Joseph Persichilli  
86 Superstitious Dr, Athens, NY 12015

**Adjacent Landowner**

Maria Chamoun  
8610 Bay 16th St Fl 2, Brooklyn, NY 11214

**Adjacent Landowner**

Neal J. Falgiano  
865 Farm To Market Rd, Athens, NY 12015

**Adjacent Landowner**

Mark P. Maraglio  
87 Kings Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Patricia Gransbury  
87 Washington Ave, Cocksackie, NY 12051

**Adjacent Landowner**

Gilbert A. Palmer  
875 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Richard Palmer  
875 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Edward A. Tozier  
88 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Rosa Clarke  
88-10 Whitney Ave #1G, Elmhurst, NY 11373

**Adjacent Landowner**

Cit Bank NA  
888 Walnut St, Pasadena, CA 91101

**Adjacent Landowner**

Max K. Rausch  
89 Johnny Cake Ln, Cocksackie, NY 12051

**Adjacent Landowner**

Lorraine A. Roberts  
892 Flats Rd, Athens, NY 12015

**Adjacent Landowner**

Mary Clark  
9 Apple Blossom Ln, W Cocksackie, NY 12192

**Adjacent Landowner**

Robert Rahn  
9 Boyd Pl, Monroe, NY 10950

**Adjacent Landowner**

Amedeo Matteo  
9 Charity Ct Unit 1181, Athens, NY 12015

**Adjacent Landowner**

Robert Taylor  
9 Hemlock Ln, Wingdale, NY 12594-9604

**Adjacent Landowner**

Ronald Armstrong  
9 Matthew Ln, Cocksackie, NY 12051

**Adjacent Landowner**

James H. Dowdle  
9 Molly White Dr, Cocksackie, NY 12051

**Adjacent Landowner**

Thomas J. Fori  
9 Sunset Blvd, Cocksackie, NY 12051

**Adjacent Landowner**

John Condy  
9 Supertitious Dr, Athens, NY 12015

**Adjacent Landowner**

Victor J. Woytowich  
9 Yost Ct #1208, Athens, NY 12015

**Adjacent Landowner**

James K. Meade  
90 Stacey Rd, Cocksackie, NY 12051

**Adjacent Landowner**

Karen A. Schubert  
90 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Julio Feijoo  
90-67 186th, St Hollis, NY 11423

**Adjacent Landowner**

Daniel R. Visconti  
907 Noxon Rd, Wappingers Falls, NY 12590

**Adjacent Landowner**

William Wells  
91 Overlook Dr, Sebastian, FL 32976

**Adjacent Landowner**

Vanessa Grecco  
92 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

SHL Sewerage Co Inc  
92 Randy Rd Unit 1095, Athens, NY 12015

**Adjacent Landowner**

Michael Balsano  
93 Petersville Rd, New Rochelle, NY 10801

**Adjacent Landowner**

Michael R. Veeder  
93 Veeder Rd, Earlton, NY 12058

**Adjacent Landowner**

Victor Sr Deleon  
939 Tunsbrook Dr, Toms River, NJ 08753

**Adjacent Landowner**

Ralph Laivins  
94 Weaver Ave, Ephrata, PA 17522-1377

**Adjacent Landowner**

James A. Fitzgerald  
95 S Washington Ave, Athens, NY 12015

**Adjacent Landowner**

Richard L. Sr Ritter  
957 Flats Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Wayne Speenburgh  
96 Washington Ave, Coxsackie, NY 12051

**Adjacent Landowner**

Philip A. Chiarella  
964 Flats Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Judee L. Brennan  
97 Kaydeross Park Rd, Saratoga Springs, NY 12866

**Adjacent Landowner**

Kenneth Roberts  
98 Kings Rd, Coxsackie, NY 12051

**Adjacent Landowner**

Virgin Land Inc  
P.O. Box 55, Stanfordville, NY 12581

**Adjacent Landowner**

21st Century Dev. Corp.  
P.O. Box 100, Athens, NY 12015

**Adjacent Landowner**

Karlsen Contracting LLC  
P.O. Box 397, Athens, NY 12015

**Adjacent Landowner**

Francis J. Casey  
P.O. Box 146, Athens, NY 12015

**Adjacent Landowner**

Maureen Ray  
P.O. Box 05253, Bergenfield, NJ 07621

**Adjacent Landowner**

J Muhammed A. Khan  
P.O. Box 1001, Bethpage, NY 11714

**Adjacent Landowner**

Michael E. Keicher  
P.O. Box 103, Leeds, NY 12451

**Adjacent Landowner**

Coxsackie Hose Co #3  
P.O. Box 303, Coxsackie, NY 12051

**Adjacent Landowner**

Robert J. Deily  
P.O. Box 489, Catskill, NY 12414

**Adjacent Landowner**

NYS Urban Dev. Corp.  
P.O. Box 191, Catskill, NY 12414

**Adjacent Landowner**

Columbia-Boulder LLC  
P.O. Box 69, Coeymans, NY 12045

**Adjacent Landowner**

Steven O. Bruno  
P.O. Box 70, Coeymans, NY 12045-0070

**Adjacent Landowner**

PA Wolfe Dev LLC  
P.O. Box 334, Coxsackie, NY 12051

**Adjacent Landowner**

Carolann Luccio  
P.O. Box 295, Coxsackie, NY 12051

**Adjacent Landowner**

C & S Properties LLC  
P.O. Box 226, Coxsackie, NY 12051

**Adjacent Landowner**

Leonard Stott  
P.O. Box 284, Coxsackie, NY 12051

**Adjacent Landowner**

Greene County Historical Soc.  
P.O. Box 44, Coxsackie, NY 12051

**Adjacent Landowner**

Robert Bedford  
P.O. Box 353, Coxsackie, NY 12051

**Adjacent Landowner**

Ruth E. Peters  
P.O. Box 263, Coxsackie, NY 12051

**Adjacent Landowner**

Gustave Schoenborn  
P.O. Box 333, Coxsackie, NY 12051

**Adjacent Landowner**

Marsan Properties Inc  
P.O. Box 250, Coxsackie, NY 12051

**Adjacent Landowner**

John Macari  
P.O. Box 307, Coxsackie, NY 12051

**Adjacent Landowner**

Eileen D. Abel  
P.O. Box 399, Coxsackie, NY 12051

**Adjacent Landowner**

Edward Fedoryszyn  
P.O. Box 73, Coxsackie, NY 12051

**Adjacent Landowner**

Robert Eskinazi  
P.O. Box 132, Coxsackie, NY 12051

**Adjacent Landowner**

William Bennett  
P.O. Box 56, Coxsackie, NY 12051

**Adjacent Landowner**

Louis P. Betke  
P.O. Box 203, Coxsackie, NY 12051

**Adjacent Landowner**

Chellie Lee Apa  
P.O. Box 283, Coxsackie, NY 12051

**Adjacent Landowner**

Traci Wildey  
P.O. Box 46, Coxsackie, NY 12051

**Adjacent Landowner**

Gary Erich Brauer  
P.O. Box 1048, Fairborn, OH 45324-1048

**Adjacent Landowner**

Flach Dev & Realty Inc  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

Aaron's Assets LLC  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

W A Properties LLC  
P.O. Box 274, Glenmont, NY 12077

**Adjacent Landowner**

Paul Pereira  
P.O. Box 051312, Indian Orchard, MA 1151

**Adjacent Landowner**

Garry Mendez  
P.O. Box 293, Millbrook, NY 12545

**Adjacent Landowner**

Mary Jo Pigott  
P.O. Box 512, New Baltimore, NY 12124

**Adjacent Landowner**

James R. Buchanan  
P.O. Box 183, Pallenville, NY 12463

**Adjacent Landowner**

Scott Ray Wayne  
P.O. Box 680666, Park City, UT 84068-0666

**Adjacent Landowner**

Summit Tech&Resources LLC  
P.O. Box 100, Ramsey, NJ 07446

**Adjacent Landowner**

Dorothy Reyngoudt  
RR 1 Box 6, West Coxsackie, NY 12192

**Adjacent Landowner**

Jon Tower  
P.O. Box 347, South Cairo, NY 12482

**Adjacent Landowner**

James V. Leo  
P.O. Box 938, Southbury, CT 05488

**Adjacent Landowner**

Archaeological Ass Inc LI Chap  
P.O. Box 268, Southold LI, NY 11971

**Adjacent Landowner**

Wenwei LLC  
43 Fifth Ave Apt 6W, New York, NY 10003

**Adjacent Landowner**

Kuxakee Prop. LLC  
80 Beecher Rd., Cossackie, NY 12051

**\*Adjacent Landowner**

Garden Club  
368 Johnny Cake Ln, Cossackie, NY 12051

**\*Adjacent Landowner**

Bethany Village Housing  
318 Mansion St, W Cossackie, NY 12192

**\*Adjacent Landowner**

William Matter  
11612 Rt 9W, Cossackie, NY 12051

**\*Adjacent Landowner**

William Matter  
11539 Rt 9W Cossackie, NY 12051

**\*\*Adjacent Landowner**

Spoor Cemetery  
Sleepy Hollow Rd, Cossackie, NY 12051

\*Hecate Greene does not have complete mailing addresses for these stakeholders. As explained in the PIP Plan, Hecate Greene expanded the definition of adjacent landowners to those within 2,500 feet of the Facility. To identify adjacent landowners, Hecate Greene requested and received from the Town of Cossackie a certified list of addresses within the 2,500 feet. Some addresses on the list, however, were incomplete. Therefore, the parcel address provided was used for these stakeholders.

\*\*Hecate Greene was not provided a complete mailing or parcel address for this stakeholder. Please see comment above. Therefore, no notice was provided.

Note: 15 adjacent parcels did not have owner information provided. Therefore, no notice was provided for these parcels.