

Draft Public Involvement Plan for Lighthouse Wind Farm

October 31, 2014

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Lighthouse Wind Farm Public Involvement Plan

Project Summary

The Lighthouse Wind farm (the "Project") is a proposed 201 MW wind energy project, located in the Town of Somerset, Niagara County, New York and the Town of Yates, Orleans County, New York, owned and developed by Apex Clean Energy Holdings, LLC ("Apex"). The Project's interconnection request has been submitted for the 345kV Kintigh Substation. Please see map of the Lighthouse Wind area of interest below.



Identification of Specific Stakeholders

Methodology for Identifying Stakeholders

Stakeholders have been identified by using geographic information systems to determine the regions, districts, and territories covered by agencies, as well as town, county, and state representatives who are expected to take part or have interest in the Article 10 proceedings for Lighthouse Wind. A one-mile buffer and a five-mile buffer of the project area were created to identify additional potential stakeholders. Throughout the permitting process, we expect to continue to build our stakeholder list as our community networks reveal additional parties with interest in Lighthouse Wind.

Our preliminary, general list of agency and community stakeholders is below. Please see Appendix A, Stakeholder and Consultation Register, for our complete list of community and agency stakeholders.

Affected Agencies

Agency stakeholders will include:

New York State Dept. of Environmental Conservation ("NYSDEC") New York State Dept. of Health ("NYSDOH") New York State energy Research and Development ("NYSERDA") Empire State Development NYS Department of Agriculture and Markets ("Ag and Markets") NYS Dept. of State ("NYSDOS") New York State Attorney General NYS Department of Transportation ("NYSDOT")" NYS Office of Parks, Recreation and Historic Preservation ("OPRHP") Department of Public Service NYS Division of Homeland Security and Emergency Services Department of Defense Federal Aviation Adminstration Federal Energy Regulatory Commission

United States Fish and Wildlife

Host Municipalities

The host municipalities for the Lighthouse Wind Farm are the Towns of Somerset in Niagara County and the Town of Yates in Orleans County. In addition to the towns, the Counties of Niagara and Orleans have also been identified as local government hosts for the Project.

Adjacent Municipalities

While not included in the project footprint, adjacent municipalities were identified by using a fivemile buffer of the project area. The adjacent municipalities that will be contacted regarding the Project are the Village of Barker, the Village of Lyndonville, and the Town of Newfane, which includes the hamlets of Newfane and Olcott.

Host Landowners

Host landowners are the landowners who have chosen to participate in the Project by means of a lease agreement, setback waiver, or other easements for the Project.

Adjacent Landowners

Adjacent landowners are parties owning parcels of land that fall within 500 feet of the permanent improvements associated with the Lighthouse Wind Farm. These landowners will be identified by use of GIS and parcel data available from Niagara and Orleans County.

Public Interest Groups

Lighthouse Wind will perform outreach to public interest groups in the Project's vicinity, including community groups, religious groups, business groups, and other such organizations, as they are identified or make themselves known.

Potential local groups initially identified for outreach are Local Emergency Services groups, Barker Lions Club, Barker Senior Citizens Group, Somerset Historical Society, the VFW Post, and the Lighthouse Optimists Club.

Environmental Justice Communities

Review of Environmental Justice community maps available via New York State DEC show no environmental justice communities in the area of the Project.

Preliminary Stakeholder List

Please see Appendix A, Stakeholder and Consultation Register.

Language Access

Languages Spoken Other than English

The Lighthouse Wind preliminary study area is within five miles of twelve five-digit ZIP code postal zones (14008, 14012, 14028, 14067, 14094, 14098, 14103, 14105, 14108, 14126, 14411, 14571). According to US Census data, languages other than English are not spoken by more than 5,000 people in any of these ZIP code postal zones. Please see Appendix B, U.S. Census Language Spoken at Home, for a complete list of each ZIP code postal zone and a breakdown of languages spoken there.

Translation and Communication

Due to the fact that English is spoken in the vast majority of households, all Project communication will be conducted in English. If an individual community member requires assistance understanding project documents or information, efforts will be made to ensure translation is provided as needed.

Identification of Goals & Methods for Specific Consultations with Specific Stakeholders

Plan for Consultations

For specific plans for outreach to stakeholders, please see Appendix A, Stakeholder and Consultation Register.

Methods of Outreach

Apex's New York development team will conduct semi-regular individual meetings with key local government and community leaders, as identified in our stakeholder list, to keep them informed and updated on Project progress.

These meetings will offer local stakeholders the opportunity to ask specific questions and advise Apex on emerging issues in the community. It will also give local leaders the chance to share feedback with Apex as the Project is developed. These meetings will be scheduled over phone or via email.

Apex staff will also be available to answer questions from key stakeholders at any time in the development process.

Schedule of Consultations (dates, times, locations)

The schedule of consultations will be set based upon the availability and interest of local stakeholders. Whenever possible, these consultations will take place at a location that is convenient to the stakeholder. Consultations will be scheduled in conjunction with the following Project milestones:

Goal	Proposed Schedule
Introduce the project to stakeholders.	October 2013 to present.
Inform all initially identified stakeholders about the project and	Concurrent with submittal of
where to find information regarding it.	Public Involvement Plan.
Invite all identified stakeholders and the general public to	Prior to submittal of Preliminary
introduce them to the project, the development process, and how	Scoping Statement
siting is done.	
Invite all identified stakeholders and the general public to explain	Prior to submittal of Preliminary
the Article 10 process, intervenor funding, and Siting Board	Scoping Statement
representation.	
Invite all identified stakeholders and the general public to explain	After Preliminary Scoping
the results of the scoping process, review the studies that will be	Statement is Accepted.
performed, the results that will be reported, and an approximate	
timeline for the studies.	
Invite all identified stakeholders and the general public to provide	Prior to submittal of
information on the interconnection process, how the NYS grid	Application.
operates, and how the power from the project will be delivered.	
Invite all identified stakeholders and the general public to provide	Prior to submittal of
information on the construction and operation of a wind farm.	Application.
Invite all identified stakeholders and the general public to update	Approximately one month prior
them on the project plans, review the Article 10 permitting	to submittal of Application.
process, and provide answers to questions.	
Invite all identified stakeholders and the general public to update	Approximately one month after
them on the project plans, review the Article 10 permitting	submittal of Application.
process, and provide answers to questions.	

Please see Appendix A, Stakeholder and Consultation Register, for more detail.

Outreach Contacts

Outreach to project stakeholders will be conducted by Dan Fitzgerald, Apex Project Manager and other Apex project team members. The phone number listed below will be answered during business hours and will accept messages after business hours.

Contact information:

Dan Fitzgerald <u>dan.fitzgerald@apexcleanenergy.com</u> (716) 562-4262 90 South Swan Street, Suite 306 Albany, NY 12210

Desired Goal of Consultations with Identified Stakeholders

Please see Appendix A, Stakeholder and Consultation Register.

Measuring Success

The goal of each consultation will be to make sure stakeholders are informed about the Project, to answer any questions they may have, and to gather information that may improve the Project. Consultation will be deemed successful if the written information described in our Consultation and Outreach plan below is provided to stakeholders, information is gathered to help advance the Public Involvement Plan ("PIP") process and preparation of the Application, and follow-up meetings or consultations are scheduled.

Addressing Environmental Justice Issues

No environmental justice issues have been identified in this Project.

Tracking Public Involvement Program Activities

Apex will work with a sophisticated online database tool to collect, monitor, and respond to public feedback. This database platform is called NationBuilder (www.nationbuilder.com), and it is integrated into the Lighthouse Wind website, making it possible to leverage the power of social media, text messaging, and email marketing to boost public involvement. Because not all stakeholders will be online, they will also be provided with opportunities to comment via mail, inperson surveys, and phone. In these cases, the written data will be entered into our online system manually by Apex staff.

Plan for Maintaining and Sharing Monthly Feedback Tracking Report

On a monthly or bi-monthly basis, we will share two kinds of updated tracking reports for posting in the Project case file and on our Project website.

The first report will list meetings and events that have taken place since the last tracking report was submitted, as well as an updated list of upcoming or planned meetings and events. A template for this report can be found in Appendix C, Project Meeting Log.

The second report will share all of the feedback we have received from stakeholders and the public since the previous tracking report was submitted. NationBuilder makes it possible to collect public feedback in a variety of ways, and to export reports that capture the names, contact information, dates, and feedback of those who wish to participate. This tool also allows

monitoring of any responses that commenters receive, and how their suggestions are being addressed. Public feedback will receive a response within ten business days, or, if a full response is not possible at that time, they will receive a message to let them know when they can expect a full response.

In addition to internally tracking this feedback, a spreadsheet-style tracking report will be submitted on a monthly basis for posting in the Project case file and will be posted our Project website.

Website

Description

Apex has purchased the domain lighthousewind.com for the Project. This website has been built on the NationBuilder platform. The website is currently live.

Schedule of Updates

Lighthousewind.com will be updated on a regular basis. The website will maintain a blog featuring updated information about wind energy, as well as updates on Project developments. Website content will be updated to maintain accuracy as additional Project details become available.

Statement of Lead Time for Posting Notices of Events

Lighthousewind.com will also feature an up-to-date events calendar. Every effort will be made to post events according to statutory requirements and as learned to be most effective throughout our public involvement process. In the unusual case that an event is organized on a last-minute basis, the event will be posted immediately upon selection of a date and time.

Identification of Content

The website will be written in plain language and easily navigated. It will contain Apex contact information (including email, phone number, and mailing address), and provide links to the DPS Article 10 Public Information Coordinator, the Siting Board home page, and case-specific documents. The site will include information about the Article 10 process, explain the Intervenor Funding process, contain Project-specific information, contain a map of the proposed facility and interconnections once proposed, and provide a schedule that lists dates, times, and locations (with maps) for in-person outreach events, and key Project milestone dates. The event list will also include event descriptions and the opportunity to RSVP or volunteer.

The following additional content may be included on the site: wind energy blog, opportunities to share feedback, opportunities to volunteer or participate in other ways, opportunities to share information through Facebook and Twitter, and opportunities to sign up for an email newsletter to be sent out at least twice per year.

Public Consultations, Outreach, and Activities to Encourage Participation

General Outreach Activities Scheduled to Take Place Prior to Submittal of Application

The following outreach activities, or similar activities, may be implemented prior to submittal of application:

- Phone poll of community to understand community sentiment.
- Economic Impact Report Third-party economic impact analysis to inform community of Project benefits.
- Local Office/ Office Hours
 - Regularly-scheduled office hours, during which an Apex staff member is present to respond to questions about the Project, accept feedback, and share information with the public. Office-hours will be located near the Project site.
 - Project informational materials and video will be available at the office during staffed hours.
 - Feedback forms and a computer terminal to be made available during office hours to help those without access to a computer explore the Projects' website.
- Dissemination of Preliminary Scoping Statement
 - Will be provided to state and municipal agencies, state and local officials, and local libraries
 - o Will be posted on website so that public has opportunity to comment.
 - Notice containing summary will be placed in newspapers.
 - Paper copies of statement will be available with feedback cards at local office/ convenient locations around town
- Intervenor Fee
 - Information about the intervenor process will be included on lighhousewind.com. (Fee will be available when Preliminary Scoping Statement is submitted, and awarded prior to consultations.)
- Additional Public Events
 - Office open house A kick-off event to invite people to the Apex office space in town and introduce local contact.
 - Local workshops offering an introduction to the lighthousewind.com website and instructions on how to give online feedback.
 - Information booths at local farmer's market (monthly in season) and participation in a few additional events.
 - Public information sessions to educate the community on wind energy and the Project. Topics may include:
 - Turbine Technology: This session would include the basics of how a wind turbine works, a synopsis of changes over the last 15 years, a list of some projects and turbine types, and then a review of the specifications of selected current models.
 - The Grid: How the grid works and how power is purchased.
 - Wind/meteorology: How we measure the wind, why some locations are better than others, and how this information contributes to siting?

- Studies, Impacts, and Mitigation: This session would explain the studies that we will be performing, what they will show us and how we will make modifications to accommodate the results.
- Siting: An interactive session that informs the public on what considerations go into siting wind turbines.
- Construction and Operations: A presentation about what the community will see during construction and after construction is complete. This session will feature pictures and visual aids to help the public understand what to expect from construction and operations.
- Sponsorship or attendance at local public events, identified during the outreach and permitting process.

General Calendar of Outreach Activities

20)13		20	14			20)15			20)16	
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	Landowne	r Participar	nt Outreach	I									
		Intro	oduction to	Local Offi	cials								
							Pul	blic Outrea	ich at Comi	munity Eve	ents		
					File PIP								
					Public E	ducation S	Sessions						
						Colle	ect and Res	pond to St	akeholder	Questions	and Comn	nents	

The following additional outreach activities will be implemented to specifically engage participating landowners:

- Annual landowner dinners Opportunities for Project participants to join the Apex development team for Project updates, new information, and an opportunity to ask questions. These events also offer Project landowners a chance to celebrate the Project's progress and congregate with each other.
- Annual or Semi-Annual Project update newsletters Paper newsletters that will be written and distributed to Project participants once or twice per year. This newsletter offers general updates about the Project and a special message from the Project's developer.

Activities to Promote Participation in Certification

Goals

- Ensure that interested stakeholders and members of the public are aware of certification process and how they can participate.
- Ensure that interested stakeholders and members of the public are informed of all relevant dates and deadlines for participation in the certification process.

Methodology for Disseminating This Information

Information about the certification process, participation opportunities, and dates and deadlines for participation will be disseminated according to the Dissemination Plan for Event Information described below.

Measuring Success

This effort will be successful if all interested parties have access to information about the certification process, participation opportunities, and dates and deadlines for participation.

Schedule

Notifications of opportunities to participate in the certification process will be posted as required by statute.

Activities to Promote Participation in Compliance

Goals

- Ensure that interested stakeholders and members of the public are aware of compliance process and how they can participate.
- Ensure that interested stakeholders and members of the public are informed of all relevant dates and deadlines for participation in the compliance process.

Methodology for Disseminating This Information

Information about the compliance process, participation opportunities, and dates and deadlines for participation will be disseminated according to the Dissemination Plan for Event Information described below.

Measuring Success

This effort will be successful if all interested parties have access to information about the compliance process, participation opportunities, and dates and deadlines for participation.

Schedule

Notifications of opportunities to participate in the compliance process will be posted as required by statute.

Dissemination Plan for Event Information

All public events, meetings, and Apex appearances will be posted on lighthousewind.com. We will also strive to get our events included in the following local newspaper event calendars. In many cases, we may also advertise upcoming meetings in these local newspapers.

Additionally, such announcements will be provided to the towns and counties should they choose to include them on their event calendars.

Somerset		
	Union Sun and Journal	http://www.lockportjournal.com/
	Buffalo News	http://www.buffalonews.com/
Yates		
	Batavia Daily News	http://www.thedailynewsonline.com/

Educational Materials to Educate the Public about the Project

Public information about the project will be provided in many formats. These will include:

- One-page informational sheets about Apex, common wind energy topics, wind energy in NY, and the Lighthouse Wind Farm Please see Appendix D, Project Information Sheets, for samples.
- Apex Corporate brochures. Please see Appendix E, Apex Corporate Brochure, for a sample.
- Regularly updated website, featuring news and blogs (www.lighthousewind.com).
- DVDs of a short video about Apex and our work with landowners on a project in Oklahoma (also available online at www.lighthousewind.com).
- Large-format informational boards to be displayed at community events and Project open houses.

Educational Materials for Article 10, the Public Involvement Plan, and Intervenor Funding

Apex will also provide materials describing the Article 10 process, the Public Involvement Plan, and the Intervenor Funding Process. These materials will include:

- Informational sheets describing each of the items above and specifying how the public can get involved with these processes. Please see Appendix F, Article 10 Educational Materials, for a sample.
- A dedicated web page on lighthousewind.com (http://www.lighthousewind.com/article_10) describing each of the items above and specifying how the public can get involved with these processes.
- Descriptions of each of the items above, including how the public can get involved with these processes, presented at public meetings.

Notifications

Notifications will be provided for upcoming meetings and forthcoming opportunities to comment or present feedback. Notices will be issued:

- According to statute and guidelines of the Article 10 process.
- Via email to all individuals who have provided an email address to us for this purpose.
- Via text to all individuals who have provided a mobile phone number to us for this purpose.
- In the local newspapers.
- On our website in the blog or events section, or on the home page.
- Occasionally, via direct mail to those who have given us their mailing addresses for this purpose.

Schedule for Issuing Notices

Every effort will be made to issue notices according to statutory requirements and no later than two weeks before the date of the event or deadline they notice. In the unusual case that an event or deadline is scheduled on a last-minute basis, the notice will be posted immediately upon selection of a date and time.

Content of Notices

Notices will vary, depending on their purpose and medium (for example, text messages have a 140 character limit that severely limit ability to provide detailed descriptions). However, the following items will be included in every notice issued:

- Purpose of event or deadline
- Relevant date or deadline
- Location (if applicable)
- Time (if applicable)
- Phone number for more information
- Brief description (if possible to include)
- Website where additional information will be available (if possible to include)

Who Will Receive Notices

Notices will be sent to anyone who opts in to the Project's email or text alert program. Notices will also be available in local newspapers and on the website.

Draft Form Letters and Notices

Please see Appendix G, Draft Form Letters and Notices for examples of the notices.

Publications and Media Outlets for Notifications

Somerset		
	Union Sun and Journal	http://www.lockportjournal.com/
	Buffalo News	http://www.buffalonews.com/
Yates		
	Batavia Daily News	http://www.thedailynewsonline.com/

Languages of Notifications

Notifications will be posted in English, because there are few non-English speakers in the Project area.

Required Agency/Municipal Pre-Application Consultations

Schedule of Consultations

Please see Appendix A, Stakeholder and Consultation Register for a detailed listing of stakeholders and scheduled consultations.

Appendix A

Stakeholder and Consultation Register

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
Niagara County	County Manager Niagara County	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Niagara County	Niagara County Highways, Bridges & Structures Division	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	0. interested parties informed. way of best format for stakeholde	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Meet with County officials.		No later than two months after submittal of PSS - In-person meeting or via telephone.
		stakeholders.	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
			Review County Building Department requirements regarding building permits.	Meeting during project planning and prior to
		Meet with County officials.	Review County Highway Department requirements for temporary radius improvements, transportation routes, and use of right-of-way.	Meeting during project planning and prior to construction.
Niagara County	Niagara County Legislator for District 14		Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
			Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
			Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Niagara Industrial Development Agency	Executive Director	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Contact additional stakeholders.	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Niagara County	Chairman, Niagara County Legislature	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
			Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Town of Somerset	Town Supervisor	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL -
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with local emergency responders	Inform local emergency responders of the project, and make arrangements for meetings regarding development, construction and operations phases of the project.	During development, prior to construction - In-person meeting or via telephone

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
Town of Somerset	Councilmen	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with local emergency responders	Inform local emergency responders of the project, and make arrangements for meetings regarding development, construction and operations phases of the project.	During development, prior to construction - In-person meeting or via telephone
Town of Somerset	Highway Superintendent	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Understand local transportation needs.	Discuss transportation routes, radius improvements, and use of right-of-way with Town Highway Superintendent.	During development prior to construction - In- person meeting or via telephone
Somerset Town Planning Board	Planning Board Chairman	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).

		Meet with Town officials.		No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.		Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Town of Somerset Zoning Board of Appeals	Chairman	Send letter of introduction to the project.	Article 10 process, intervenor funding,	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with Town officials.		No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.		Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
Member of NYS Assembly for District 144	Assemblywoman	Send letter of introduction to the project.	Article 10 process, intervenor funding,	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
NYS Senator for District 62	Senator	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
Orleans County	Orleans County Chief Administrative Officer	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.					
			Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.					
		Contact additional stakeholders	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
Orleans County	Orleans County Legislator for District 2	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.					
			Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.					
		Contact additional stakeholders	Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
Orleans County	Orleans County Highways Superintendent	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
		Provide notice to County regarding submittal of PSS.	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.					
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.					
			Employ County expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
			Review County Highway Department requirements for temporary radius improvements, transportation routes, and use of right-of-way.	Meeting during project planning and prior to construction.					
Orleans Industrial Development Agency	CEO/CFO	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
Orleans County	Chairman, Orleans County Legislature	Send letter of introduction to the	Provide general information on Project, Article 10 process, intervenor funding,	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up					
		project.	and project contact information.	letter prior to submittal of PSS.					
		Provide notice to County regarding	Inform County leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.					
		submittal of PSS.							
		Notifications as	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per					
				regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email,					
				in-person, or mail).					
		Meet with County officials.	Determine whether all local laws potentially applicable to the Project have	No later than two months after submittal of PSS - In-person meeting or via telephone.					
			been identified and determine whether						
			any potential request by the Applicant that such local requirement not be						
			applied can be obviated.						
		Contact additional	Employ County expertise to identify	Throughout permitting process - By way of					
		stakeholders	additional stakeholders and inform them about the project.	best format for stakeholder (telephone, email, in-person, or mail).					
Town of Yates	Town Supervisor	Send letter of	Provide general information on Project,	OCTOBER 2014 - Sent by mail. Additional					
		introduction to the project.	Article 10 process, intervenor funding, and project contact information.	follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Provide notice to	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL -					
		County regarding submittal of PSS.		Send via mail.					
		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by					
		required by Article 10.	interested parties informed.	way of best format for stakeholder or per regulation.					
		Respond to all	Provide answers to specific questions or	Throughout permitting process - By way of					
		inquiries.	concerns.	best format for stakeholder (telephone, email, in-person, or mail).					

Agency/ Municipality/ Assoc.	Agency/ Municipality/ Assoc. Title		Goals of Consultation	Consultation Method and Schedule					
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.					
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Meet with local emergency responders	Inform local emergency responders of the project, and make arrangements for meetings regarding development, construction and operations phases of the project.	During development, prior to construction - In-person meeting or via telephone					
Town of Yates	Councilmen	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.					
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).					
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.					

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Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
Yates Town Planning Board	Planning Board Chairman	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.
		Respond to all inquiries.	Provide answers to specific questions or concerns.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Meet with Town officials.	Determine whether all local laws potentially applicable to the Project have been identified and determine whether any potential request by the Applicant that such local requirement not be applied can be obviated.	No later than two months after submittal of PSS - In-person meeting or via telephone.
		Contact additional stakeholders.	Employ Town expertise to identify additional stakeholders and inform them about the project.	Throughout permitting process - By way of best format for stakeholder (telephone, email, in-person, or mail).
		Understand local transportation needs.	Discuss transportation routes, radius improvements, and use of right-of-way.	During development prior to construction - In- person meeting or via telephone
Town of Yates Zoning Board of Appeals	Chairman	Send letter of introduction to the project.	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.
		Provide notice to County regarding submittal of PSS.	Inform Town leaders on progress.	TWO WEEKS PRIOR TO PSS SUBMITTAL - Send via mail.
		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Respond to all	Provide answers to specific questions or	Throughout permitting process - By way of
		inquiries.	concerns.	best format for stakeholder (telephone, email,
				in-person, or mail).
		Meet with Town	Determine whether all local laws	No later than two months after submittal of
		officials.		PSS - In-person meeting or via telephone.
			been identified and determine whether	
			any potential request by the Applicant	
			that such local requirement not be	
			applied can be obviated.	
		Contact additional	Employ Town expertise to identify	Throughout permitting process - By way of
		stakeholders.	additional stakeholders and inform them	best format for stakeholder (telephone, email,
			about the project.	in-person, or mail).
		Understand local	Discuss transportation routes, radius	During development prior to construction - In-
		transportation needs.	improvements, and use of right-of-way.	person meeting or via telephone
Iember of NYS Assembly for District	Assemblyman	Send letter of	Provide general information on Project,	OCTOBER 2014 - Sent by mail. Additional
139		introduction to the	Article 10 process, intervenor funding,	follow-up by phone or in person. Follow-up
		project.	and project contact information.	letter prior to submittal of PSS.
		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
		required by Article 10.	interested parties informed.	way of best format for stakeholder or per
				regulation.
		Respond to all	Provide answers to specific questions or	Throughout permitting process - By way of
		inquiries.	concerns.	best format for stakeholder (telephone, email,
				in-person, or mail).
		Contact additional	Employ Town expertise to identify	Throughout permitting process - By way of
		stakeholders.	additional stakeholders and inform them	best format for stakeholder (telephone, email,
			about the project.	in-person, or mail).
New York State Dept. of		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
Environmental Conservation		required by Article 10.	interested parties informed.	way of best format for stakeholder or per
("NYSDEC") and NYSDEC Region 9				regulation.
		Collect NYSDEC	Identify concerns to incorporate	During planning phase - In-person and
		feedback.	feedback into Project layout.	telephone meetings to discuss Project study
				work plans.

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule
		Understand NYSDEC	Determine whether all NYSDEC	No later than one month prior to submittal of
		regulations.	regulations potentially applicable to the	PSS - correspondance by phone, email, or
		-	Project have been identified.	mail.
		Determine necessary		Prior to submittal of PSS - Meeting or
		bird and bat studies.	and determine if additional studies are recommended.	telephone conference.
New York State Dept. of Health		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
("NYSDOH")		required by Article 10.	interested parties informed.	way of best format for stakeholder or per regulation.
		Understand NYSDOH	Determine whether all NYSDOH	No later than one month prior to submittal of
		regulations.	regulations applicable to the Project have been identified.	PSS - correspondance by phone, email, or mail.
New York State energy Research and		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
Development ("NYSERDA")		required by Article 10.	interested parties informed.	way of best format for stakeholder or per regulation.
Empire State Development		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
		required by Article 10.	interested parties informed.	way of best format for stakeholder or per
				regulation.
NYS		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
Department of Agriculture and Markets ("Ag and Markets")		required by Article 10.	interested parties informed.	way of best format for stakeholder or per regulation.
		Understand Ag. and	Determine whether all Ag and Markets	No later than one month prior to submittal of
		Markets regulations.	regulations applicable to the Project	PSS - correspondance by phone, email, or
			have been identified. Also discussion of	mail.
			agricultural lands in the Project area,	
			impact avoidance and mitigation measures.	
NYS Dept. of State ("NYSDOS")		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
		required by Article 10.	interested parties informed.	way of best format for stakeholder or per
				regulation.
		Understand all	Determine whether all NYSDOS	No later than one month prior to submittal of
		NYSDOS regulations.	regulations applicable to the Project	PSS - correspondance by phone, email, or
			have been identified.	mail.
New York State Attorney General		Notifications as	Keep all community stakeholders and	According to schedule in regulations -Send by
		required by Article 10.	interested parties informed.	way of best format for stakeholder or per
				regulation.

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
NYS Department of Transportation ("NYSDOT")		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Understand all NYSDOT regulations.	Determine whether all NYSDOT regulations applicable to the Project have been identified.	Within two months after submittal of PSS - telephone call or in-person meeting.					
		Plan transportation for project.	Inform agency of expected transportation routes and learn of any concerns and requirements for overweight/oversize permits.	At least one month prior to expected transport activities - Telephone call or in-person meeting.					
NYS Office of Parks, Recreation and Historic Preservation ("OPRHP")		Notifications as required by Article 10.	Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
		Consult on cultural resources study.	Determine need and scope for any Phase IB or Phase II cultural resources study.	Prior to submission of Application - Consultation in coordination with the Department of Public Service ("DPS") regarding necessity and scope of cultural resources study.					
		Consult on State or National Register of Historic Places.	Identify possible sites or structures eligible for listing on State or National Register of Historic Places within the Project area or viewshed.	Prior to submission of Application - Consultation in coordination with the Department of Public Service ("DPS") to include identification of possible sites eligible for registration.					
		Identify desired visual simulation viewpoints.	Discussion of appropriate representative viewpoints for visual simulations.	Prior to submission of Application - Consultation in coordination with the Department of Public Service ("DPS") to include review of viewpoints selected for visual impact assessment.					
		Understand OPRHP regulations.	•	No later than two months after submittal of PSS - Correspondence by email, phone, or mail.					
Department of Public Service		Submissions.	Submittal of application documents as required by Article 10 regulations.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					

Agency/ Municipality/ Assoc.	Title	Consultation Task	Goals of Consultation	Consultation Method and Schedule					
			Keep all community stakeholders and interested parties informed.	According to schedule in regulations -Send by way of best format for stakeholder or per regulation.					
NYS Division of Homeland Security and Emergency Services		introduction to the	Provide general information on Project, Article 10 process, intervenor funding, and project contact information.	OCTOBER 2014 - Sent by mail. Additional follow-up by phone or in person. Follow-up letter prior to submittal of PSS.					
Department of Defense			Identify any areas for further study. incorporate feedback into layout.	Prior to submission of Application - Contact agency through Aviation and Communications Consultant.					
			Ensure ability to comply with Article 10 regulations.	Prior to submission of Application - Agency consultation through Aviation and Communications Consultant.					

Appendix B

U.S. Census Language Spoken at Home

B16001: LANGUAGE SPOKEN AT HOME 2008-2012 American Community Survey 5-

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section. Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit stimates of the population Estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

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Total:	1,271	+/-210				1	+/-303	4,603	+/-416	48,073	+/-757	2,973	+/-249	10,359	+/-315	4,278	+/-394	5,183	+/-469	726	+/-254	13,751	+/-347	1,182	+/-236
Speak only English	1,263	+/-206 +/-13	2,0		+/-218 +/-52		+/-294 +/-7	4,400 155	+/-428 +/-135	45,821 1.140	+/-870 +/-317	2,844	+/-258 +/-11	9,618 390	+/-394 +/-146	4,108 81	+/-370 +/-81	5,086	+/-469 +/-22	726	+/-254 +/-12	12,409 877	+/-363 +/-170	1,160 16	+/-236 +/-25
Spanish or Spanish Creole: Speak English "very well"	0	+/-13	45		+/-32	-	+/-12	138	+/-130	831	+/-280	6	+/-10	282	+/-130	81	+/-81	12	+/-22	0	+/-12	681	+/-158	8	+/-13
Speak English less than "very well"	8	+/-13	9		+/-13		+/-7	17	+/-22	309	+/-132	2	+/-4	108	+/-68	0	+/-12	6	+/-11	0	+/-12	196	+/-96	8	+/-13
French (incl. Patois, Cajun):	0	+/-12	9		+/-11		+/-30	23	+/-26	202	+/-122	7	+/-11	15	+/-20	7	+/-7	14	+/-23	0	+/-12	89	+/-90	0	+/-12
Speak English "very well"	0	+/-12	9		.,	-	+/-30	23	+/-26	202	+/-122	7	+/-11	15	+/-20	4	+/-6	14	+/-23	0	+/-12	38	+/-55	0	+/-12
Speak English less than "very well" French Creole:	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	0	+/-28 +/-28	0	+/-12 +/-12	0	+/-19 +/-19	3	+/-4 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	51	+/-72 +/-12	0	+/-12 +/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	10	+/-12	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Italian:	0	+/-12	9		+/-17		+/-12	0	+/-17	148	+/-67	0	+/-12	56	+/-45	0	+/-12	0	+/-17	0	+/-12	38	+/-34	0	+/-12
Speak English "very well"	0	+/-12	9		+/-17		+/-12	0	+/-17	140	+/-65	0	+/-12	48	+/-39	0	+/-12	0	+/-17	0	+/-12	38	+/-34	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	8	+/-12 +/-24	0	+/-12 +/-12	8	+/-12 +/-19	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	0	+/-19 +/-19	0	+/-12 +/-12
Portuguese or Portuguese Creole: Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	16	+/-24	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
German:	0	+/-12	0		+/-12		+/-12	0	+/-17	92	+/-59	31	+/-47	25	+/-39	11	+/-10	53	+/-54	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	78	+/-53	12	+/-19	25	+/-39	8	+/-9	22	+/-27	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well" Yiddish:	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17	14	+/-24	19	+/-29 +/-12	0	+/-19 +/-35	3	+/-4 +/-15	31	+/-47	0	+/-12 +/-12	0	+/-19 +/-26	0	+/-12 +/-12
Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12	0	+/-17	2	+/-5	0	+/-12	18	+/-35	10	+/-15	6	+/-11	0	+/-12	20	+/-26	0	+/-12
Speak English less than "very well"	Ő	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	19	+/-27	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Other West Germanic languages:	0	+/-12	0		+/-12		+/-12	0	+/-17	33	+/-40	48	+/-43	5	+/-9	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	12	+/-20	19	+/-21	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	21 24	+/-33	29	+/-31	5	+/-9 +/-19	0	+/-12	0	+/-17 +/-17	0	+/-12	0	+/-19	0	+/-12
Scandinavian languages: Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	24	+/-31 +/-31	0	+/-12 +/-12	0	+/-19	0	+/-12 +/-12	0	+/-17	0	+/-12 +/-12	0	+/-19 +/-19	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Greek:	0	+/-12	0		+/-12	0	+/-12	0	+/-17	19	+/-30	0	+/-12	0	+/-19	4	+/-5	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	9	+/-14	0	+/-12	0	+/-19	4	+/-5	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	10 141	+/-16 +/-141	0	+/-12 +/-12	0	+/-19 +/-4	0 50	+/-12 +/-79	0	+/-17 +/-17	0	+/-12	0	+/-19 +/-29	0	+/-12
Russian: Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12	0	+/-17	141	+/-141	0	+/-12	0	+/-4	33	+/-79	0	+/-17	0	+/-12 +/-12	34	+/-29	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	25	+/-29	0	+/-12	1	+/-4	17	+/-27	0	+/-17	0	+/-12	4	+/-9	0	+/-12
Polish:	0	+/-12	0		+/-12	11	+/-18	10	+/-19	63	+/-55	0	+/-12	6	+/-11	0	+/-12	6	+/-11	0	+/-12	20	+/-26	0	+/-12
Speak English "very well"	0	+/-12	0		1/ 12		+/-18	10	+/-19	44	+/-49	0	+/-12	6	+/-11	0	+/-12	6	+/-11	0	+/-12	20	+/-26	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	19	+/-26	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Serbo-Croatian: Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	0	+/-28	6	+/-9 +/-9	0	+/-19 +/-19	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	0	+/-19 +/-19	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Other Slavic languages:	0	+/-12	0		+/-12	2	+/-4	0	+/-17	32	+/-45	20	+/-19	19	+/-24	0	+/-12	0	+/-17	0	+/-12	13	+/-24	6	+/-11
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	7	+/-10	20	+/-19	14	+/-22	0	+/-12	0	+/-17	0	+/-12	13	+/-24	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-4	0	+/-17	25	+/-43	0	+/-12	5	+/-11	0	+/-12	0	+/-17	0	+/-12	0	+/-19	6	+/-11
Armenian: Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17	0	+/-28 +/-28	0	+/-12 +/-12	0	+/-19	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	0	+/-19 +/-19	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Persian:	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12	-	+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Gujarati: Speak English "very well"	0	+/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	115 51	+/-135 +/-48	0	+/-12 +/-12	0	+/-19	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	0	+/-19 +/-19	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	64	+/-40	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Hindi:	0	+/-12	0		+/-12	0	+/-12	0	+/-17	0	+/-28	5	+/-7	14	+/-31	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12	-	+/-12	0	+/-17	0	+/-28	0	+/-12	14	+/-31	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0	•	+/-12	0	+/-12	0	+/-17 +/-17	U	+/-28	5	+/-7	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12 +/-12	0		+/-12 +/-12	0	+/-12 +/-12	0	+/-17	0	+/-28 +/-28	0	+/-12	0	+/-19	0	+/-12 +/-12	0	+/-17	0	+/-12 +/-12	18	+/-26	0	+/-12 +/-12
Speak English less than "very well"	Ŏ	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	Ŏ	+/-12	0	+/-19	0	+/-12	0	+/-17	Ő	+/-12	0	+/-20	Ő	+/-12
Other Indic languages:	0	+/-12	0		+/-12	0	+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	2	+/-4	0	+/-17	0	+/-12	66	+/-75	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	48	+/-52	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	2	+/-4	0	+/-17	0	+/-12	18	+/-25	0	+/-12
Other Indo-European languages: Speak English "very well"	0	+/-12 +/-12	0		+/-12 +/-12		+/-12 +/-12	0	+/-17 +/-17	0	+/-28 +/-28	0	+/-12 +/-12	82 67	+/-136 +/-111	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	13	+/-24 +/-24	0	+/-12 +/-12
Speak English less than "very well"	0	+/-12	0		+/-12 +/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	15	+/-25	0	+/-12	0	+/-17	0	+/-12	0	+/-24	0	+/-12
Chinese:	0	+/-12	Ŏ		+/-12	0	+/-12	0	+/-17	189	+/-181	0	+/-12	5	+/-12	3	+/-4	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12	0	+/-12	0	+/-17	111	+/-103	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	78	+/-97	0	+/-12	5	+/-12	3	+/-4	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Japanese:	0	+/-12	0		+/-12		+/-12	0	+/-17 +/-17	0	+/-28	0	+/-12	0	+/-19 +/-19	0	+/-12	0	+/-17	0	+/-12	6	+/-12	0	+/-12
Speak English "very well" Speak English less than "very well"	0	+/-12 +/-12	0		+/-12 +/-12		+/-12 +/-12		+/-17	0	+/-28 +/-28	0	+/-12 +/-12	0	+/-19	0	+/-12 +/-12	0	+/-17 +/-17	0	+/-12 +/-12	6	+/-19 +/-12	0	+/-12 +/-12
Korean:	0	+/-12	0		+/-12		+/-12		+/-17	0	+/-28	0	+/-12	0	+/-19	ŏ	+/-12	0	+/-17	0	+/-12	18	+/-12	0	+/-12
Speak English "very well"	0	+/-12	Ŏ		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	14	+/-21	0	+/-12
Speak English less than "very well"	0	+/-12	0		+/-12	0	+/-12		+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	4	+/-9	0	+/-12
Mon-Khmer, Cambodian:	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English "very well"	0	+/-12	0		+/-12		+/-12	0	+/-17	0	+/-28	0	+/-12	0	+/-19	0	+/-12	0	+/-17	0	+/-12	0	+/-19	0	+/-12
Speak English less than "very well"	U	+/-12	0	·	+/-12	U	+/-12	U	+/-17	U	+/-28	U	+/-12	U	+/-19	U	+/-12	U	+/-17	U	+/-12	U	+/-19	U	+/-12
APPENDIX B - U.S. Census Language Spoken at Home Zip Codes: 14008, 14012, 14028, 14067, 14094, 14098, 14103, 14105, 14108, 14126, 14411, 14571

11		0		0		. / 00				0	. / 10	0	0		. / 40	
Hmong: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Thai: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	39	+/-72	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	28	+/-53	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	11	+/-19	0 +/-12
Laotian: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Vietnamese: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Other Asian languages: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	30	+/-34	0	+/-12	27 +/-31	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	30	+/-34	0	+/-12	27 +/-31	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Tagalog: 0	+/-12	0 +/-12 0	+/-12	15 +/-25	1	+/-2	4	+/-7	0 +/-19	0	+/-12	0 +/-17	0 +/-12	61	+/-81	0 +/-12
Speak English "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	1	+/-2	4	+/-7	0 +/-19	0	+/-12	0 +/-17	0 +/-12	61	+/-81	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	15 +/-25	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Other Pacific Island languages: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	2	+/-2	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	2	+/-2	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Navaio: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Other Native North American languages: 0	+/-12	0 +/-12 3	+/-6	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 3	+/-6	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Hungarian: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Arabic: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	5	+/-8	0	+/-12	12 +/-18	0	+/-12	0 +/-17	0 +/-12	10	+/-13	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	5	+/-8	0	+/-12	12 +/-18	0	+/-12	0 +/-17	0 +/-12	10	+/-13	0 +/-12
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
Hebrew: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	5	+/-9	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	ŏ	+/-28	ŏ	+/-12	0 +/-19	Ő	+/-12	0 +/-17	0 +/-12	5	+/-9	0 +/-12
Speak English less than "very well" 0	+/-12	$0 + \frac{1}{12} 0$	+/-12	0 +/-17	ő	+/-28	0	+/-12	0 +/-19	ŏ	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
African languages: 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	47 +/-64	ŏ	+/-12	0 +/-17	0 +/-12	5	+/-13	0 +/-12
Speak English "verv well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	0	+/-28	0	+/-12	47 +/-64	0	+/-12	0 +/-17	0 +/-12	5	+/-0	0 +/-12
Speak English less than "very well" 0	+/-12	$0 + \frac{1}{12} 0$	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-0	0 +/-12
Other and unspecified languages: 0	+/-12	$0 + \frac{1}{12} 0$	+/-12	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0	+/-12	0 +/-17	0 +/-12	0	+/-19	0 +/-12
	+/-12	$0 + \frac{12}{12} 0$.,	0 +/-17	0	+/-28	0	+/-12	0 +/-19	0		0 +/-17	0 +/-12	0	+/-19	0 +/-12
Speak English "very well" 0		• • • •	+/-12	•	0		0	., .=	0 17 10	U	+/-12	•		0	17 10	*
Speak English less than "very well" 0	+/-12	0 +/-12 0	+/-12	0 +/-17	U	+/-28	U	+/-12	0 +/-19	U	+/-12	0 +/-17	0 +/-12	U	+/-19	0 +/-12

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables. While the 2008-2012 American Community Survey (ACS) data generally reflect the December 2009 Office of Management and Budget (OMB) definitions of metropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definit

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2000 data. Boundaries for urban areas have not been updated since Census 2000. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2008-2012 American Community Survey

Explanation of Symbols:

1. An '**' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution. 3. An '- following a median estimate means the median falls in the lowest interval of an open-ended distribution.

4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.

5. An "*** entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

6. An '****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

8. An '(X)' means that the estimate is not applicable or not available.

Appendix C Project Meeting Log

Date of Meeting/	Location of Meeting/									
Event	Event	Meeting/ Event Attendees	Purpose of Meeting/ Event	Follow-up Action Items	Comments					
Completed Activities										
		l	Jpcoming or Planned Activities	S						

Appendix D

Project Information Sheets



Lighthouse Wind Project Profile

Apex Clean Energy is exploring the feasibility of constructing Lighthouse Wind, a wind energy project expected to generate 200 megawatts of clean, homegrown energy. Local wind data confirms that the area under consideration is ideal for a project of this size, which will produce enough safe, pollutionfree energy to power up to 59,000 U.S. homes.

Located in rural Niagara and Orleans Counties on the shores of Lake Ontario in the Town of Somerset, we expect to begin working with the community on permitting activities in the summer of 2014.

AN ECONOMIC OPPORTUNITY FOR NIAGARA AND ORLEANS COUNTIES

Lighthouse Wind will create jobs and generate an entirely new source of long-term revenue for schools, governments, and landowners. The total direct financial impact to the region is likely to be in the millions of dollars over about 30 years, with additional indirect economic benefits greatly exceeding that number.

Developed and constructed with private capital, the project is expected to enter a Payment in Lieu of Taxes (PILOT) agreement with the local tax jurisdictions and a Host Community Agreement (HCA) with the town.

Landowners with wind facilities on their property will receive annual lease payments. These payments will continue over the projected 30-year lifespan of the wind farm, injecting millions of dollars into the economies of Niagara and Orleans Counties to support local merchants, contractors, equipment suppliers, auto dealers, etc.

The power from Lighthouse Wind will be delivered



into the New York electrical grid, which is managed by the New York ISO (NYISO).

PROJECT FACTS

- Located in Somerset, Niagara County and Yates, Orelans County, New York
- Enough power for up to 59,000 U.S. homes (100 200 MW)
- Power will be delivered into the New York electrical grid
- Hundreds of jobs and significant local spending during construction
- Up to 10 full-time local jobs for operations and maintenance
- Taxpayers protected against decommissioning costs
- 30 years of annual revenue for county and local landowners, totaling millions of dollars
- Existing high-voltage power lines and highways would limit the need for new infrastructure
- Would represent a significant investment in local economy with revenues for farmers, local government and schools





Five Things to Know About Apex Clean Energy

1) WE HARNESS THE POWER OF THE WIND AND SUN

Our business is to responsibly develop clean, reliable energy from the abundant wind and solar resources found throughout the U.S. We bring renewable energy to the market responsibly, by carefully siting projects in suitable locations around the nation.

2) APEX CLEAN ENERGY IS A PROVEN INDUSTRY LEADER

Founded in 2009, Apex has become one of the fastest-growing companies in the clean energy industry. Apex is an independent, privately-held renewable energy company based in Charlottesville, Virginia. Learn more at www.apexcleanenergy.com.

3) APEX MANAGEMENT IS EXPERIENCED

A growing company of over 90 people, Apex is led by a team of wind energy veterans with collective experience of over \$10 billion in the development, financing, construction, and operation of wind and solar energy facilities now operating in the United States. The Apex team offers in-house expertise in wind resource assessment, development, permitting, wildlife biology, engineering, information technology, construction, and finance.

4) CAREFUL SITE SELECTION BROUGHT US TO NIAGARA AND ORLEANS COUNTIES

Lighthouse Wind is typical of our careful approach to project development. Apex chooses locations with supportive landowners, a proven wind resource, access to high-capacity transmission lines, low risk for wildlife impacts, and compatibility with existing land uses. We work to become community partners and establish longterm relationships in the areas where we work.

5) WE WANT TO MEET YOU

Dan Fitgerald is the primary contact for Lighthouse Wind. Dan joined Apex in 2013 and leads our projects in New York and throughout New England, where he has been developing wind energy projects since 2007. In 2012, Dan completed development and construction of the 215 MW Marble River Wind Farm in the towns of Clinton and Ellenburg in New York's North Country. He has advanced the development of numerous projects in New York and Maine.

Dan is originally from Rensselaer County, but now calls Albany home. From this central location, he is able to travel to all areas of New York state.

CONTACT INFORMATION:

Dan Fitzgerald, Apex Clean Energy 90 South Swan Street, Suite 306, Third Floor Albany, NY 12210 (716) 562-4262 | dan.fitzgerald@apexcleanenergy.com

Taylor Quarles is an Apex contact for Lighthouse Wind. Taylor



joined Apex in 2014 and is excited to work with the residents of Niagara and Orleans counties in the completion of Lighthouse Wind. Previous to Apex, Taylor worked for a nonprofit developing organizational capacity and managing construction projects in Haiti. Taylor lives in Charlottesville, Virginia, where Apex is based.

CONTACT INFORMATION:

Taylor Quarles, Apex Clean Energy 310 4th St NE, Suite 200 Charlottesville, VA 22902 (434) 328-2293 taylor.quarles@apexcleanenergy.com





Energy, Wildlife, and the Environment

Wind energy is one of the most environmentally-friendly forms of electrical generation on the planet. That is because wind energy emits no air or water pollution, requires no mining or drilling for fuel, uses virtually no water, and creates no hazardous or radioactive waste. Clean, renewable wind energy also displaces harmful emissions from fossil fuel power plants and offsets carbon emissions, making it a safer generation option for people, wildlife, and natural ecosystems.

NATIONAL WILDLIFE ORGANIZATIONS SUPPORT WIND ENERGY

Properly sited wind energy projects protect birds and wildlife by producing no dangerous pollutants or carbon emissions. That's why the Audubon Society agrees that responsibly planned and located wind turbines benefit wildlife. Audubon knows that air and water pollution represent a far greater threat to wildlife than wind turbines.

Audubon is not alone. In 2012, the National Wildlife Federation, ConservAmerica, and 116 other sportsmen, business, and conservation groups signed a letter asking Congress to support renewable energy projects around the country.

"Sportsmen/women, wildlife advocates, and outdoor enthusiasts are supportive of the development of clean, renewable energy resources as long as it is done in the right places..."

> - Letter to Congress from 118 Sportsmen and Conservation Groups, 2012*

While birds do occasionally collide with turbine blades, modern wind farms are far less harmful to birds than buildings, communication towers, power lines, and vehicles. In fact, turbines account for only a small fraction, about .0003%, of all human-related bird deaths.

To ensure that our projects are responsibly sited for wildlife, Apex conducts environmental impact studies for every project. We coordinate with federal and state wildlife agencies to make sure that



our projects are sited in areas where they are unlikely to affect bird or bat populations.

WIND ENERGY HAS NO KNOWN IMPACT ON DEER POPULATION OR HUNTING

Just as the deer population adapts to construction of new homes, buildings, and other new sights and sounds near their habitats, deer also become accustomed to wind farms. It is not uncommon to find deer and other wildlife feeding or resting near the bases of turbines. Cattle, horses, goats and other livestock are also 100% compatible with wind energy technology.

WIND ENERGY REDUCES AIR POLLUTION

In 2012, wind energy offset 87,000 metric tons of SO₂ and 61,000 metric tons of NOx, dangerous particulate air pollutants that are associated with conventional electric generation.* In addition, wind turbines installed in the U.S. through 2012 will displace nearly 100 million metric tons of carbon dioxide annually*. That's the equivalent of removing over 17 million cars from the road. This carbon savings helps birds and wildlife by minimizing the worst impacts of climate change, which according to scientists, could threaten between a quarter and half of all bird species.

*American Wind Energy Association





Wind Energy Helps Control Your Electricity Bill

In order for a wind energy project to be successful, there must be a buyer for the power it will produce. Generally, this electricity is purchased by utilities, manufacturers, universities, or municipalities that demand large amounts of energy.

These large-scale customers buy wind power because:

- Unlike coal, gas and other fuels, the cost of wind doesn't change.
 The fuel for wind energy is free.
- Once a project is built, the cost of producing energy remains constant, so power purchase contracts "lock-in" a predictable, steady rate for 20-25 years.
- Wind energy is clean, reducing pollution and helping the State of New York reach its goal to get 29% of its energy from renewable sources by 2015.

WIND IS PRICE COMPETITIVE

In many locations, the cost of wind power is already competitive with other energy sources. In fact, in some parts of the country, consumers are saving significant sums of money because utilities are buying power from wind energy projects.

WIND ENERGY AND TAX INCENTIVES

Tax incentives to encourage domestic energy production are nothing new. Some oil industry tax incentives are over 100 years old. Incentives have played a major role in developing new technologies that have reduced natural gas prices and commercialized shale-oil production, helping to drive America's current energy boom.

The Renewable Electricity Production Tax Credit (PTC) is an income tax credit of 2.2 cents per kWh for electricity from wind turbines. Unlike a grant or direct payment to wind energy companies, the PTC reduces income tax for wind project owners based on the amount of energy produced in the first 10 years of operation. This savings

"We want to be on the frontier of new markets, providing the necessary support to get the private sector fully engaged."

Richard Kauffman, New York State's Energy Czar

allows a project to charge lower rates for its energy. Thus, like all energy incentives, the PTC helps save money for consumers, while creating American jobs in construction, turbine component manufacturing, supply industries, trucking companies, and more.

"Clean technology is no longer on the periphery... but something that's actually the core."

Audrey Zibelman, Chair of NY Public Service Commission

WIND IS REDUCING CONSUMER COSTS

Studies have shown an increase in wind energy in the Midwest could save consumers between \$65 and \$200 per year. Prices of wind power in 2012 averaged 4 cents per kilowatt hour, a 50% decrease from 2009*. As the wind industry grows, prices will continue to drop.





* U.S. Department of Energy, 2012 Wind Technologies Report



What to Expect: Developing a Wind Farm



DEVELOPMENT AND PERMITTING (AVERAGE 1-3 YEARS)

1. SITE IDENTIFICATION

Average wind speed, proximity to transmission lines and electrical demand are key factors in where to build a wind farm. We can only build projects where local landowners are interested in hosting wind facilities on their property in exchange for long-term lease payments.

2. COMMUNITY OUTREACH

Apex works hard to make sure information about wind energy and our proposed projects are available to landowners and the public. We strive to answer all questions, and we engage with local governments to ensure full compliance with local codes and ordinances.

3. SITING TURBINES

One of the last steps before construction is pinpointing turbine placement. Final locations are dependent upon turbine selection and wind resource, soils and geotechnical conditions, final cultural surveys, and setbacks from buildings, roads, waterways, and wetlands. Because turbine procurement occurs immediately before construction, turbine arrays are generally not finalized until the very end of the development process. To the greatest extent possible, we strive to incorporate landowner requests in the final siting of the turbines.









CONSTRUCTION (AVERAGE 9 MONTHS)

4. CONSTRUCTION BEGINS

Building a wind farm typically takes 6-9 months and employs many workers. Construction requires large machinery, and it can temporarily increase local traffic. Apex always ensures roads are suitable for heavy loads prior to construction, upgrading those that need it, and building access roads to each turbine site. Over several months, crews bury electric lines, build transmission lines, and erect turbines. One-by-one turbines will start spinning.

5. COMPLETING CONSTRUCTION

Apex takes great care to ensure construction sites are returned to their original state. Roads, field tiles, vegetation and land are all restored to their original condition in strict compliance with landowner and local agreements.







OPERATION (20-25 YEARS +)

6. WIND FARM OPERATION

Turbines are maintained by full-time, local employees who live and work in the community. At the end of the wind farm's serviceable life, turbines will be either upgraded or decommissioned. If removed, foundations are excavated to a depth of four feet, and land is restored for agricultural production. Decommissioning agreements are signed with the county to ensure that taxpayers are protected and do not bear this cost.







Wind Energy and Your Health

More than 45,000 wind turbines are in operation in the United States today, safely generating electricity for our nation. Wind energy is one of the healthiest forms of energy generation in the world, because it releases no greenhouse gases, soot or carbon into the atmosphere, nor does it consume valuable fresh water or produce water pollution. Apex wind projects are built in full compliance with local, state and federal safety regulations to protect the health and welfare of landowners, maintenance teams, and others.

KEY FINDINGS FROM MAJOR HEALTH IMPACT STUDIES

Government and university sponsored studies around the world have repeatedly confirmed that modern wind turbines pose no threat to public health. Over 17 independent reviews of the existing science on wind energy and health have reached the same conclusion.

"There is no evidence for a set of health effects, from exposure to wind turbines that could be characterized as a 'Wind Turbine Syndrome."" - Massachusetts Department of Health*

WIND TURBINE SOUND

The sound of wind turbine blades passing through the air is often described as a "whoosh." Measurements show this

sound is no louder than a kitchen refrigerator or air conditioning unit at a distance of 1,000 feet. Scientific evidence confirms this sound is not dangerous and that any low-frequency waves produced are not harmful to those nearby.

Infrasound from Lighthouse Wind will be no different than waves on a beach and weaker than highway traffic, air conditioners and other daily exposures.

✓ "To date, no peer reviewed scientific

journal articles demonstrate a causal link between people living in proximity to modern wind turbines, the noise (audible, low frequency noise, or infrasound) they emit and resulting physiological health effects."** "… low level frequency noise or infrasound emitted by wind turbines is minimal and of no consequence… Further, numerous reports have concluded that there is no evidence of health effects arising from infrasound or low frequency noise generated by wind turbines."***

SHADOW FLICKER

This term refers to the shadows cast by wind turbine blades as they rotate in front of the sun, similar to the shadow cast by a tree blowing in the wind. By positioning wind turbines at a Apex uses sophisticated software to place turbines so that shadow is minimized.

carefully calculated angle and distance from dwellings, Apex ensures that most homes in a project experience no shadowing at all. For those that do, shadowing will occur for no more than a few minutes per day, on average. Shadowing does not occur on cloudy or foggy days.

Furthermore, while some have claimed that shadow flicker can create risk of seizures in photo-sensitive individuals,

"Scientific evidence suggests that shadow flicker [from the rotating blades of wind turbines] does not pose a risk for eliciting seizures as a result of photic stimulation."*

ICE THROW

In some wintry conditions, ice can accumulate on turbine blades.

Sophisticated vibration sensors on the turbine blade automatically shut the turbine down when this occurs.

In almost all cases, ice drops straight to the ground, just like icicles or snow sliding off a roof. Apex maintains

minimum setback requirements to ensure that ice is not a risk to neighboring structures.

* Source: Massachusetts Dept of Public Health, "Wind Turbine Health Impact Study: Report of Independent Expert Panel", January 2012.
** Source: Knopper and Ollson, "Health Effects and Wind Turbines: A Review of the Literature." Environmental Health 2011, 10:78.
*** Source: Australian Government National Health and Medical Research Council. "Wind Turbines and Health". July 2010.



The risk of ice striking

a home 984 feet from a

turbine is extremely low -

researchers estimate that

if it happens at all, it is

only likely to occur once

every 625 years.



Wind Energy Does Not Impact Residential Property Values

As the development of utility-scale wind energy projects has become more prevalent in this country, concerned communities have asked how these projects would affect their property values. Researchers have been working hard to scientifically answer this question. In 2013 the Lawrence Berkeley National Laboratory (LBNL) completed the most extensive study to date on property transactions near wind farms. Their conclusion?

"...the core results of our analysis consistently show no sizable statistically significant impact of wind turbines on nearby property values."

2013 Study by Lawrence Berkley National Laboratory

ABOUT THE STUDY:

Researchers analyzed 51,276 home sales near 67 wind farms in 27 counties across nine U.S. states.

- All homes were within 10 miles of wind facilities
- 1,198 sales were within 1 mile of a turbine
- 331 sales were within 1/2 mile of a turbine
- Data was collected before, during and after wind farm construction

GOOD NEWS FOR WIND FARMERS

Regardless of the type or size of wind turbine studied, researchers find no statistical evidence that home values near turbines are



affected before, during or after construction.

The study data shows that statistically, even homes within $\frac{1}{2}$ mile of a wind turbine are not affected by its presence.

According to rural appraisers, farm acreage upon which turbines are sited often increases in value to account for the new stream of steady, long-term income the property generates through the harvesting of the wind.



Appendix E

Apex Corporate Brochure



Further information about renewable energy is available from the following organizations:

American Wind Energy Association

1501 M Street NW Suite 1000 Washington, DC 20005 (202) 383-2500 www.awea.org

United States Department of Energy Office of Energy Efficiency and Renewable Energy 1000 Independence Ave. SW Washington, DC 20585 (877) 337-3463 http://www.eere.energy.gov/topics/wind.html

National Renewable Energy Laboratory

901 D Street, SW Suite 930 Washington, DC 20024 (202) 488-2200 www.nrel.gov/wind/



Printed on recycled paper made entirely with energy from renewable sources.

ENERGY FOR YOUR FUTURE



310 4th Street, NE Suite 200 Charlottesville, VA 22902 (434) 220-7595 www.apexcleanenergy.com





WHO WE ARE

Apex Clean Energy, Inc. is a leading developer of utility-scale renewable energy facilities in North America. With a team of some of the most experienced renewable energy professionals in the industry, Apex has built a strong reputation for responsible development and quality projects constructed to the highest industry standards. The company has a proven track record of working with communities and landowners to develop first-class facilities that produce jobs, income to landowners, revenue for local government, and a clean source of home-grown energy. Apex is investing today to provide energy for tomorrow.





THE EVOLUTION OF APEX CLEAN ENERGY

Apex was formed in 2009 by a management team that has been in the wind business for more than a decade. As pioneers in renewable energy, the management team established its presence in the wind industry with the creation of Greenlight Energy, Inc. in 2000. Ranked among the largest independent wind companies in the nation, Greenlight Energy created a development pipeline of 30 projects in 15 states with a potential generating capacity of 4,500 MW. Over a span of just six years, Greenlight Energy successfully developed over \$750 million of wind facilities that are now in commercial operations, with a combined generating capacity of 450 MW.

In 2006, BP Alternative Energy acquired Greenlight Energy for \$125 million. Shortly after the acquisition, members of the original Greenlight Energy management team started Greenlight Energy Resources, Inc. Since its inception, Greenlight Energy Resources has launched a number of alternative energy companies in the wind, solar and biodiesel industries. Founded by Greenlight Energy Resources, Apex Clean Energy has the necessary financial backing and experience to remain a long-term leader in the North American wind industry.

AN EXPERIENCED TEAM

The management team of Apex Clean Energy leads one of the most experienced groups of renewable energy professionals working in North America today. With over 100 years of combined experience in the renewables industry, this group of professionals brings strong capabilities in the areas of energy development, resource assessment, permitting, project financing, transmission engineering, and power marketing. The relationships we've built over the past decade within the banking, construction and energy sectors will continue to play a critical role in the future as

projects are developed and constructed.

The Apex team has been directly involved in the development of over \$10 billion in operating wind facilities comprising over The Apex management team has developed over \$10 billion in operating wind facilities comprising over 5,133 megawatts of capacity.

5,133 MW of capacity. Additionally, Apex's finance team has extensive experience in raising capital for energy projects, having obtained over \$22 billion of financing for both conventional and renewable energy projects.



The principals of Apex Clean Energy have developed over \$10 billion of operating renewable energy facilities in the United States. These facilities are located throughout the nation, ranging in size from the 20 MW Steel Winds project in New York to the 300 MW Canadian Hills Wind project in Oklahoma. Our track record highlights our diverse capabilities, and we continue to develop an array of sites ranging in scale from large greenfield sites on vast stretches of agricultural land to projects with tighter footprints, often co-located with current or former industrial uses. The Apex team has been directly involved in the development, procurement, or financing of the following projects:



Canadian Hills Wind Oklahoma, 2012 Capacity: 300 MW Cost: Over \$400 Million Purchased by Atlantic Power









Valero Energy Wind Farm Texas, 2009

Capacity: 50 MW

Cost: \$100 Million

Purchased by Valero Energy

Supplies approximately 45% of the Valero refinery's electricity needs

Cedar Creek Wind Farm Colorado, 2007 Capacity: 300 MW Cost: \$500 Million Purchased by Babcock & Brown and BP Alternative Energy Largest operating renewable energy facility in Colorado at time of construction

Steel Winds Wind Farm New York, 2007

Capacity: 20 MW

Cost: \$34 Million

Purchased by First Wind

Voted "2007 Best Renewable Project of the Year" by Power Engineering Magazine

Elk River Wind Farm Kansas, 2005 Capacity: 150 MW

Cost: \$200 Million

Purchased by PPM Energy

Largest operating renewable energy facility in Kansas at the time of construction





Meadow Lake Wind Farm I and II Indiana, 2009 Capacity: 300 MW Cost: \$600 Million







Wind is a clean, inexhaustible, domestic energy source that can generate enough electricity to power millions of homes and businesses. One of the fastest growing forms of electrical generation in the world, wind energy could provide as much as 30% of our nation's energy needs, thereby reducing our dependence on foreign oil and fossil fuels.

Wind power offers both economic and environmental benefits on the local and national level. On a local level, wind farms generate a steady stream of income for landowners without restricting farming and grazing practices. On average, the footprint of the wind



facilities occupies less than 2% of the total land leased. Local benefits also include increased tax revenues and employment opportunities during wind farm construction and throughout the project's operational life.

In addition to the many economic benefits, wind energy is renewable and does not pollute the environment. Wind energy produces no emissions, which means it does not contribute to acid rain, greenhouse gasses, or smog. In addition, wind energy consumes no water, making it a great choice for arid climates where water resources are limited.

Wind energy is economically competitive as well, with today's new wind plants competing favorably against any new electricity generation source. Best of all, the cost of wind energy is stable over time. Unlike fossil fuels that fluctuate along with fuel prices, the cost of wind energy is reliable and steady. That's one reason why more utility companies are investing in renewable energy.



WIND FARM PROJECT LIFE CYCLE

Developing a utility-scale wind farm is an involved process that takes time and active collaboration among many parties, including landowners, developers, utilities, manufacturers, and other infrastructure providers. The process from initial site selection to project completion typically ranges from three to five years, but can take longer depending on the complexity of the project and market conditions.

CONSTRUCTION PHASE Typically 6 – 12 Months in Duration Access Roads Electrical Collection and Transmission Turbine Construction

Site Restoration





DEVELOPMENT PHASE

Wind Resource Assessment Land Leasing Transmission Studies Environmental Studies Permitting – Local, State and Federal Engineering and Design of Facilities Power Purchase Agreements Project Financing Construction Contracting OPERATION PHASE Typically 25+ Years in Duration Electricity Production Maintenance of Facilities

Decommissioning – At the end of the project, facilities are removed and land is restored to its original state.





Appendix F

Article 10 Educational Materials



Getting Involved

PERMITTING WIND ENERGY IN NEW YORK

New York has a very rigorous state permitting system for major electric generating facilities called Article 10. The Article 10 process will offer members of the public many opportunities to share their opinions and suggestions about Lighthouse Wind with both Apex and the NY State Board of Electric Generation Siting and the Environment (www.dps.ny.gov/SitingBoard).

WHAT IS ARTICLE 10?

Article 10 defines a clear process for public engagement in permitting large electric generating facilities.

- Applies to electric generating facilities with 25 MW generating capacity or more, including renewable energy projects.
- Includes environmental justice and environmental and health requirements.
- Ensures broad public involvement opportunities throughout the process.
- Makes funds available to local parties and municipalities through an *Intervenor Fund* so they can make an effective contribution to the proceedings.

There are five stages of the Article 10 process:

- Pre-Application: Applicants must file a Public Involvement Program Plan summarizing activities to educate, inform and involve the public in the process 150 days before filing Preliminary Scoping Statement. Ninety days before filing an application, the applicant files a Preliminary Scoping Statement. This statement must also be provided to state and municipal agencies, state and local officials, and local libraries. A notice summarizing the Scoping Statement must also be placed in newspapers. The Scoping Statement must include:
 - Proposed facility and environmental setting
 - Potential significant, adverse environmental/health impacts
 - Proposed studies to evaluate potential impacts
 - Measures to avoid or mitigate adverse impacts

- Reasonable alternatives
- State and Federal requirements

After the Preliminary Scoping Document is submitted, circulated, publicly noticed, and at least half of the Intervenor Funds have been awarded, consultation begins with interested parties on the methodology and scope of impact studies. The public has an opportunity to comment on the Preliminary Scoping Statement, and the applicant (Apex, in this case) is required to respond to the written public comments.

- 2. Application: The project application will be filed with the Siting Board and made available for public inspection at libraries. Copies of the application will also be provided to interested parties, and a notice summarizing the application will be published in local newspapers. State legislators in impacted districts will also be notified. The application must include:
 - Project description
 - Public involvement activity
 - Facility and community security and safety plans
 - Evaluation of expected environmental/health impacts, environmental justice issues, and reasonable alternative locations
- 3. Administrative Hearings: Within 60 days of receiving a project application, the Chair of the Siting Board determines if it complies with all filing requirements. If so, a date for the public hearing is set. The hearing examiner also holds a pre-hearing conference to identify intervenors, award intervenor funds, identify issues for the hearing, and establish a case schedule.
- 4. Siting Board Decision: The Siting Board must make explicit findings about the nature of the environmental impacts related to construction and operation of the facility and related facilities. Specifically, the Board will consider impacts to:
 - Statewide electrical capacity
 - Ecology, air, ground and surface water, wildlife, and habitat





- Public health and safety
- Cultural, historical, and recreational resources
- Transportation, communication, utilities, etc.
- Cumulative emissions on the local community according to environmental justice regulations

The Board must also determine that the facility is a "beneficial addition or substitute for" generation capacity, that construction and operation are in the public interest, that adverse environmental effects will be minimized or avoided, and that the project is in compliance with state laws and regulations.

- 5. **Compliance:** Once the project is certified, there are three elements of post-certification compliance:
 - Pre-Construction: Includes the filing of engineering and design documents, permits or approvals.
 - DPS On-Site Compliance: Staff from the Department of Public Service will be on-hand to ensure that compliance requirements are met at the facility after construction begins.
 - Long-Term Compliance: After construction, a facility's certificate may require long-term compliance regarding the operation of the facility over its lifetime.

THE INTERVENOR FUND

The Intervenor Fund exists to ensure that it is possible for any interested local parties or municipalities to contribute to the proceedings. All projects must pay \$350 per MW of generating capacity into the fund, up to \$200,000, during the Pre-Application Stage.

In addition, each project application must be accompanied by a fee of \$1,000 per MW of capacity into the fund, up to \$400,000, during the Application Stage. The Presiding Examiner or Secretary will issue a notice when funds are available, informing the public on how they may apply for a portion of these funds. Requests for funds must be submitted to the Presiding Examiner no later than 30 days after the issuance of the notice of availability. Eligible municipal and local parties may request funds by filing the requests with the Secretary of the Siting Board and submitting a copy to the Presiding Examiner and to the other parties to the proceeding.

Funds will be awarded to municipalities and local parties on an

equitable basis, when it is determined that the funds will to be used to contribute to a complete record leading to an informed decision as to the appropriateness of the site and the facility, and will facilitate broad participation in the proceeding.

Half of the Intervenor Funds must be available for municipal parties and half to local parties to hire expert witnesses, consultants, or lawyers.

FOR MORE INFORMATION ABOUT THE ARTICLE 10 PROCESS...

The State of New York has an office within the Department of Public Service, called the "Public Information Coordinator" to assist and advise interested parties and members of the public on participation in the siting and certification of major electric generating facilities. To learn more about the Public Information Coordinator or to find their contact information, visit:

http://tinyurl.com/NYDPS

To provide comments on a case, contact the Secretary of the Siting Board:

Kathleen H. Burgess

Email: secretary@dps.ny.gov

Mail: Siting Board 3 Empire State Plaza Albany, NY 12223-1350

Phone the Opinion Line to leave a comment: (800) 355-2120

To contact Apex:

Dan Fitzgerald

Email: dan.fitzgerald@apexcleanenergy.com

Mail: Apex Clean Energy, New York 90 South Swan Street, Suite 306 Albany, NY 12210 Phone: (716) 562-4262

To learn more about Lighthouse Wind or share comments with Apex: www.lighthousewind.com



Appendix G

Draft Form Letters and Notices



Court Square Building 310 4th St. NE, Suite 200 Charlottesville, VA 22902 T 434.220.7595 / F 434.220.3712 apexcleanenergy.com

Stakeholder Name Stakeholder Addr 1 Stakeholder Addr 2 City, State ZIP

Dear <Stakeholder Name>,

I am writing to introduce myself, Apex Clean Energy, and Lighthouse Wind, a proposed wind energy project in your area. Apex Clean Energy is exploring the feasibility of constructing Lighthouse Wind, in the Town of Somerset, Niagara County, NY and the Town of Yates, Orleans County, NY.

Lighthouse Wind is expected to generate up to 201 megawatts of clean, renewable energy. Local wind data confirms that the area under consideration is ideal for a project of this size, which will produce enough safe, pollution-free energy to power up to 59,000 U.S. homes.

Lighthouse Wind will create jobs and generate an entirely new source of long-term revenue for schools, governments, and landowners. The total direct financial impact to the region is likely to be in the millions of dollars over about 30 years, with additional indirect economic benefits greatly exceeding that number.

Developed and constructed with private capital, the project is expected to enter a Payment in Lieu of Taxes (PILOT) agreement with the local tax jurisdictions and a Host Community Agreement (HCA) with the towns.

The power from Lighthouse Wind will be delivered into the New York electrical grid, which is managed by the New York ISO (NYISO).

This project is still under development and will be permitted through New York State's Article 10 process for major electric generating facilities. This process is managed by the New York State Public Service Commission.

Article 10 defines a clear process for public engagement in permitting large electric generating facilities, includes environmental justice and environmental and health requirements, and ensures broad public involvement opportunities throughout the process. It also makes funds available to local parties and municipalities through an Intervenor Fund, so they can meaningfully participate in the proceedings.

I will be contacting you directly in the near future to arrange a time to speak to you about the project and the Article 10 permitting process. Information on the project and permitting are also available at <u>www.lighthousewind.com</u>, where you may sign up to join our email list to receive the most up-to-date news and information about the project as development progresses. I look forward to speaking with you about the proposed project in the near future.

Sincerely,

Dan Fitzgerald Project Manager, Lighthouse Wind www.lighthousewind.com



Lighthouse Wind Open House

Monday, October 13 | Barker Fire Hall 1660 Quaker Road Barker, NY 14012

Join us anytime between 3–7 p.m.

Learn more about the Lighthouse Wind energy project, being considered for open areas in the Towns of Somerset and Yates. Light refreshments will be provided.

lighthousewind.com

