

January 31, 2018

VIA ELECTRONIC DELIVERY

Honorable Kathleen H. Burgess
Secretary
New York State Public Service Commission
Three Empire State Plaza, 19th Floor
Albany, New York 12223-1350

RE: Case 16-G-0058 – Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service

Case 16-G-0059 – Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of The Brooklyn Union Gas Company d/b/a National Grid NY for Gas Service

**NATIONAL GRID: MICROCHP GAS REV DEMONSTRATION
PROJECT – Q4 2017 REPORT**

Dear Secretary Burgess:

KeySpan Gas East Corporation d/b/a National Grid and The Brooklyn Union Gas Company d/b/a National Grid NY (collectively “National Grid” or the “Companies”) hereby submit for filing the quarterly report for the Micro-Combined Heat and Power (“MicroCHP”) Gas REV Demonstration Project covering the period of October 1, 2017 to December 31, 2017 (“Q4 2017 Report”). This Q4 2017 Report additionally satisfies the Commission’s requirement in the December 16, 2016 *Order Adopting Terms of Joint Proposal and Establishing Gas Rate Plans* in Cases 16-G-0058 and 16-G-0059 that the Companies file annual reports within forty-five (45) days after the end of each rate year providing the status of the implementation of each gas REV demonstration project and any preliminary findings.

Please direct any questions regarding this filing to:

Arunkumar Vedhathiri
Director, New Energy Solutions
National Grid
1125 Broadway
Albany, New York 12204
Tel.: 518-433-5013
Mobile: 518-423-5738
Email: arunkumar.vedhathiri@nationalgrid.com

Hon. Kathleen H. Burgess, Secretary
National Grid: MicroCHP Gas REV Demonstration Project – Q4 2017 Report
January 31, 2018
Page 2

National Grid looks forward to continuing to work collaboratively with the New York State Department of Public Service Staff as it proceeds with the implementation of the MicroCHP Gas REV Demonstration Project.

Respectfully submitted,

/s/ Janet M. Audunson

Janet M. Audunson, P.E., Esq.
Senior Counsel II

Enc.

cc: Marco Padula, DPS Staff, w/enclosure (via electronic mail)
Robert Cully, DPS Staff, w/enclosure (via electronic mail)
Cynthia McCarran, DPS Staff, w/enclosure (via electronic mail)
John Sano, DPS Staff, w/enclosure (via electronic mail)
Davide Maioriello, DPS Staff, w/enclosure (via electronic mail)
Cathy Hughto-Delzer, w/enclosure (via electronic mail)
Kate Grant, w/enclosure (via electronic mail)
Carlos Nouel, w/enclosure (via electronic mail)
Fouad Dagher, w/enclosure (via electronic mail)
Christopher Cavanagh, w/enclosure (via electronic mail)



**Micro-Combined Heat and Power
Gas REV Demonstration Project
New York City and Long Island, New York**

Q4 2017 Report

January 31, 2018

Table of Contents

1. Executive Summary	1
2. Highlights since Implementation Plan Filing	3
Major Tasks Completed	3
Community Engagement and Participant Recruitment.....	3
Procurement	4
Candidate Host Site Design Details	4
2.1 Table of Challenges, Changes, and Lessons Learned up to Q4 2017.....	4
3. Next Quarter Forecast.....	6
3.1 Table of Checkpoints/Milestone Progress (Current Plan).....	8
4. Work Plan & Budget Review	9
4.1 Revised Project Work Plan (based on new product choice).....	10
4.2 Updated Budget.....	11
5. Progress Metrics	11

Appendix – Flyer for Participant Recruitment

1. Executive Summary

KeySpan Gas East Corporation d/b/a National Grid (“KEDLI”) and The Brooklyn Union Gas Company d/b/a National Grid NY (“KEDNY”) (collectively “National Grid” or the “Companies”) are implementing a micro-combined heat and power (“microCHP”) demonstration project with up to twenty (20) units to assess the feasibility of the emerging technology in Long Island (“LI”) and New York City (“NYC”) (the “Project”). The objectives of the Project are to assess the feasibility of new business models that could potentially realize the economic, resiliency, and environmental benefits of microCHP in residential and small commercial markets.

The Project is a test-and-learn demonstration and was designed in accordance with the principles of the New York State Public Service Commission’s (“Commission” or “PSC”) Reforming the Energy Vision (“REV”) proceeding.¹ The Project was approved through the 2016 KEDLI and KEDNY rate proceedings.² The purpose of this quarterly update is to describe National Grid’s progress and any significant changes to the Implementation Plan.³ Project progress since project start and through Q4 primarily constitutes evaluation of suitable products and identification of participating customers.

MicroCHP units being tested in the Project are units 5 kW and under in capacity that are ideal for use in 1-6 unit multi-family residential buildings or small commercial buildings. The units use natural gas as fuel to generate electricity. The residual heat produced in the electricity generation can be used for domestic hot water and space heating applications. The microCHP units selected for the Project will test demand response and black start capability to maximize economic and resilience value streams for customers. MicroCHP technologies that are currently available in Asian and European market have not been introduced in the US. The key benefit of the Project is to provide an opportunity for microCHP manufacturers to understand the codes and standards of NY and adopt their technologies and product offerings to meet the US market needs.

The Project was designed to align with REV policy outcomes in several ways. National Grid believes that it is possible to create more mutually beneficial relationships with customers by leveraging critical infrastructure, customer outreach and engagement, energy insights, and other actionable information. Towards that end, the following

¹ Case 14-M-0101, *Proceeding on Motion of the Commission in Regard to Reforming the Energy Vision* (“REV proceeding”).

² Case 16-G-0058, *Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service* and Case 16-G-0059, *Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of The Brooklyn Union Gas Company d/b/a National Grid NY for Gas Service et al.*, Order Adopting Terms of Joint Proposal and Establishing Gas Rate Plans (issued December 16, 2016)(“Gas Rate Plan Order”).

³ This Q4 2017 Report additionally serves to satisfy the Commission’s requirement that the Companies submit annual reports within forty-five (45) days after the end of each rate year (*i.e.*, by February 14th each year) providing the status of the implementation of each gas REV demonstration project and any preliminary findings. *Id.*, p. 136.

metrics will be used to measure the potential benefits of microCHP products that can be brought to scale as a result of the Project:

- ◆ Energy Cost Savings
- ◆ Utility System Benefits
- ◆ Economic Growth
- ◆ Resiliency Benefits
- ◆ Customer Satisfaction
- ◆ Carbon Reduction

The benefits of microCHP will be derived from the potential for future market penetration of residential and small commercial systems in urban and suburban neighborhoods of commercialized systems.

2. Highlights since Implementation Plan Filing

Major Tasks Completed

- Regulatory filings
 - The first quarterly progress report (Q3 2017) was filed with the Commission on October 31, 2017.
- Partnership agreements with the following entities have been executed:
 - Aegis Energy Services, Inc. as agent for Yanmar
 - Centsible House as agent for Aisin World, Ltd.
 - Sealed Inc.
- Savings model and simulation developed
 - Savings model for Project participants: National Grid
 - Hypothetical Economic model at scale Sealed Inc.
- Template agreements created
 - Offer Letter and
 - Site Agreement between Manufacturer's agent and customer
 - Shared Savings Agreement
- Executed collaboration agreements with Consolidated Edison Company of New York, Inc. ("Con Edison") and PSEG-Long Island ("PSEG-LI") to provide for:
 - Sharing of customer data with prior customer permission
 - Participation in demonstration of electric demand response
- Completed outreach to the NYC Department of Buildings regarding permit requirements. The filing for the first unit in NYC will be through a "Limited Alteration Application" which is anticipated will only require a plumbing and electrical permit filed by the licensed plumber and electrician.
- Modified Sealed shared savings agreements in response to customer feedback.
- Agreements for first unit executed which will result in a Yanmar 5 kW unit being installed at the Island Park Fire Department on Long Beach Road in Island Park.

Community Engagement and Participant Recruitment

- Yanmar
 - One site for the Yanmar microCHP unit has been recruited by National Grid. All contracts for participation are pending. The site is the Island Park Fire Department volunteer fire house in an area severely affected by Hurricane Sandy. In addition, this building is expected to be upgraded to improve its resiliency during extreme weather events with disaster aid funding provided by the Governor's Office of Storm Recovery ("GOSR"). GOSR has made inquiries about microCHP systems at other similar public sites.

- Aisin
 - Centsible House, Inc. and National Grid have reviewed more than 50 sites in NYC and Long Island with individual building owners and local community housing agencies. As many as 30 sites may be suitable for participation in the Project. The Companies have also conducted outreach campaigns. See Appendix to this report for an example of outreach materials.

Procurement

- Proposals have been received for turn-key microCHP installations at ten (10) sites from:
 - Aegis Energy Services, Inc. for Yanmar for two (2) sites
 - Centsible House for Aisin World Ltd. for eight (8) sites
- Terms and conditions have been negotiated and purchase orders will be issued in Q1 2018.

Candidate Host Site Design Details

Firm pricing has been developed for each prospective participant as well as detailed savings projections. Offers have been extended to two (2) customers for the Yanmar unit. One, in NYC, is pending a decision from the customer.

An element of the Gas Rate Plan Order approving the Project was a requirement to evaluate impact on gas utilization. The modeling developed has included projections before and after the implementation of a microCHP system and shows a typical increase in annual gas consumption of about 10%. The savings are also, in part, due to the value of bill savings that result from all gas distribution charges at this building transferring from the current rate to a Distributed Generation gas tariff, such 1B-DG, for residential microCHP in New York City.

2.1 Table of Challenges, Changes, and Lessons Learned up to Q4 2017

Challenge or Change	What was the resulting change to Scope/Timeline?	Strategies to Resolve	Lessons Learned
Higher than expected installed cost for 4-5 kW units	Substitute one (1) 5 kW unit for two (2) 1 – 1.5 kW units in order to maintain budget and schedule	<ul style="list-style-type: none"> • Eliminated Marathon/ Eco Power 4.4 kW unit from consideration • Support minimization of permit related costs • Installer education 	Lack of standardization of installations remains a driver of excessive costs. Standardization of installation is required.

Challenge or Change	What was the resulting change to Scope/Timeline?	Strategies to Resolve	Lessons Learned
Permitting requirements in the City of New York	No change to scope or timeline.	Early engagement with the NYC Department of Buildings	<ul style="list-style-type: none"> • A listing under UL 2200 is required. • Permit requirements vary between 1-2 unit multi-family and larger residential buildings. • Permitting uncertainty remains until applications are filed and permit review commences.
Some microCHP units, especially in NYC, require indoor installation due to lack of outdoor space and clearances for venting	No change to scope or timeline.	Identify interior spaces with sufficient combustion air and venting.	Some microCHP units were designed assuming outdoor installation. Units require design and certification for indoor use. Placement on the roof is an option if rooftop dunnage ⁴ is not required due to its high cost.
Configuration of electric and gas services in small-multifamily buildings can impact design and economic benefits	Limits accessible population	<ul style="list-style-type: none"> • Give preference to apartment buildings with shared heating and domestic water systems • Request net energy metering (“NEM”) for electric residential accounts for common portions of the building 	<ul style="list-style-type: none"> • When each apartment unit has its own boiler, the heating system can be substantially oversized. • Common gas and electric services can be on commercial accounts limiting access to traditional NEM compensation for electric customers.⁵ • The common heating account may be too small to have much

⁴ Rooftop dunnage consists of a raised set of beams positioned on posts or bearing walls to support mechanical equipment placed on a roof.

⁵ Customers no longer eligible for compensation under Phase One NEM would be subject to compensation under the Value of Distributed Resources (“VDER”) Phase One Value Stack which may or may not be as attractive.

Challenge or Change	What was the resulting change to Scope/Timeline?	Strategies to Resolve	Lessons Learned
			usage. Arrange for shared heating and domestic water heating where feasible.
Product and Service Availability	Delay in timeline	Early identification of licensed plumbers and electricians.	<ul style="list-style-type: none"> Secure product commitment directly with manufacturer. Several units require additional design for backup power or Demand Recompose capability Plumbers and electricians have skills needed but require specialized training on microCHP units. Non-domestic equipment may be designed for different performance characteristics.

3. Next Quarter Forecast

During Q1 2018, the first unit, a Yanmar 5 kW microCHP, will be installed at the volunteer Island Park Fire Department in the KEDLI service territory.⁶ A second site for a Yanmar unit to be installed in New York City will be determined.



In addition, on October, 23, 2017, Aisin notified the Company that it was declining participation in US demonstration programs due to potential concern over the durability of their product for the intended application. Negotiations on a more limited trial with Aisin are expected to continue in Q1 2018 with Aisin to provide three (3) of the units for this project in early 2018. Draft agreements have been developed with a decision from Aisin management expected in in February. Additional units may be

⁶ The Yanmar unit will not provide backup power due to an existing backup generator but will have demand response operability.

offered after these units are installed. Aisin is also seeking support for development of the backup power capability at Stony Brook University. Several other manufacturers have expressed interest in this program.

The primary activity in Q1 2018 (and likely to continue into Q2 2018) will be the securing of new products for the revised Phase 2 of the Project. If additional suitable products cannot be secured in 2018 than the Project will exclusively use the Yanmar product in lower numbers than planned depending on site costs. In addition to Yanmar and Aisin, the following suppliers/products remain under consideration for the Project:

<u>SUPPLIER</u>	<u>PRODUCT</u>
○ Panasonic	Fuel Cell (PEM)
○ M-Trigen	Engine w/ air conditioning option
○ SOLIDpower ⁷	Fuel Cell (Solid Oxide)
○ Qnergy	Stirling engine

Upon review, it was determined that the following products are actively developing new capabilities and features, including backup power and increased generating efficiency, but do not appear ready for this demonstration project and will not be considered in 2018 unless substantial progress is made:

- | | |
|---------------------------------|-----------------------------|
| ○ Enviro power Technologies LLC | micro Steam Turbine |
| ○ Evita (Yankee Scientific) | Stirling engine (Wall hung) |

Sealed Inc. will continue utilize its billing platform to manage the participants' energy bills and essentially simulate what customers would experience using private financing derived from shared savings. Sealed Inc. has interviewed some prospective customers and developed its own model of the product in a fully-developed market based on future projections for unit cost at full scale production provided by each manufacturer and is also evaluating the concept of aggregating electric production for possible participation in electric demand response programs such as Con Edison's Brooklyn Queens Demand Management ("BQDM") program.

Changes to the Sealed terms being implemented for new participants are as follows:

Upfront customer contribution → Eliminate customer contribution and higher retained savings for Sealed /National Grid















Two year agreement → Agreement lasts for two (2) years, with an option to extend to 20 years.

After two (2) years, the customer has the choice to:

- Have the system removed,
- Continue on Sealed's billing platform with no money out-of-pocket for maintenance/rehab.
 - Buy-out according to an agreed-upon value that National Grid and Sealed Inc. pre-determine and specify in the agreement.

⁷ The SOLID power Fuel Cell utilizing BlueGen technology is undergoing durability testing at the Brookhaven National Laboratory.

3.1 Table of Checkpoints/Milestone Progress (Current Plan)

Checkpoint/Milestone	Anticipated Start/End Date Stated in Project Implementation Plan	Revised Start-End Date	Status
1. Customer needs analysis and identifying target customer type.	January 2017 – March 2017	Completed	
2. Coordination with electric utilities (Con Edison and PSEG-LI); identify electric constrained areas.	January 2017 – December 2019	Completed	
3. Stakeholders engagement; collaboration with industry groups and key agencies (ARPA-E, ⁸ community partners and organizations, etc.) Phase 1	January 2017 – October 2017	Completed	
4. Stakeholders engagement; collaboration with industry groups and key agencies (ARPA-E, community partners and organizations, etc.) Phase 2	January 2018 – October 2018	Completed	
5. Solution development (vendor selection and eligible equipment criteria); secure pricing. Phase 1	January 2017 – June 2017	Completed	
6. Solution development (vendor selection and eligible equipment criteria); secure pricing. Phase 2	January 2018 – June 2018	Unchanged	
7. Completion of legal contracts with customers and vendors, and mutual agreement with partner electric utilities. Phase 1	March 2017 – October 2017	Partial delay	
8. Completion of legal contracts with customers and vendors, and mutual agreement with partner electric utilities. Phase 2	March 2018 - October 2018	Unchanged	
9. Customer selection and enrollment. Phase 1	June 2017 – September 2017	Partial delay	
10. Customer selection and enrollment. Phase 2	April 2018 – September 2018	Unchanged	
11. Schedule and install customer equipment – Phase 1 (readily available technologies).	July 2017 – November 2017	Delay	
12. Schedule and install customer equipment – Phase 2 (for developing technologies).	July 2018 – November 2018	Unchanged	
13. Measurement and verification; Coordination with electric utilities on system usage.	October 2017 – December 2019	Partial delay	
14. Meet with Staff to determine how to assess the impact of a broader penetration of the concept on on peak gas demand.	As Needed 2017-2019	Unchanged	

⁸ ARPA-E is the Advanced Research Projects Agency – Energy, a United States government agency tasked with promoting and funding research and development of advanced energy technologies.

Key



On track



Delayed Start; At Risk of On-Time Completion; Or Over-Budget



Terminated/Abandoned Checkpoint/Milestone

4. Work Plan & Budget Review

There are likely changes to the overall Project work scope and work plan. The Gantt chart found in the Project Implementation Plan is based on the assumption that the Aisin unit is replaced with a new product. If the Aisin unit becomes available and is deemed suitable for use in the Project, the original work plan and schedule may be able to be restored with a shorter delay. The timeframe will also be reduced since work will now occur outside the peak season for heating contractors.

4.1 Revised Project Work Plan (based on new product choice)

Micro Combined Heat and Power Demonstration (Alternative)																																																							
Activities	Participating Groups						CY 2017												CY 2018												CY 2019																								
	NES	ADA	CMS/AMC	GP	CBD	Jurisdiction	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19													
1.00 Customer Targeting (1/2017-3/2017)																																																							
1.10 Identification of suitability	X	X	X			X																																																	
1.20 Customer data analysis	X	X	X																																																				
1.30 Identify ideal locations/areas	X	X	X			X																																																	
1.40 Customer needs analysis	X	X	X		X																																																		
1.50 Identify target customer types	X	X	X	X																																																			
1.60 Transition to recruitment (section 3 below)																																																							
2.00 Utility Coordination (1/2017-6/31/2017)																																																							
2.10 Outreach and Education	X																																																						
2.20 Execute agreements (for data exchange)	X																																																						
2.30 Identify load constraint areas (electric)	X																																																						
2.40 Customer targeting	X				X																																																		
2.50 Data integration & exchange protocols	X			X																																																			
3.00 Recruitment (2/2017-12/2017)																																																							
3.10 Develop participant criteria	X				X																																																		
3.20 Develop customer agreements	X			X	X																																																		
3.20 Develop outreach plan materials	X			X	X																																																		
3.30 Customer enrollment	X			X	X																																																		
4.00 Stakeholder Engagement (1/2017-9/2017)																																																							
4.10 Develop Stakeholder Map	X				X	X																																																	
4.20 Develop Stakeholder Collateral	X				X	X																																																	
4.30 Initial Meetings & Cadence as needed	X			X	X	X																																																	
4.40																																																							
5.00 Vendor Selection & Contracts (1/2017-7/2017)																																																							
5.10 Internal Stakeholder RACI	X			X																																																			
5.20 Identification of Vendors	X			X																																																			
5.30 Identification of Technologies	X			X																																																			
5.40 Scope of Work	X			X																																																			
5.40 Go-to-Market Strategy	X			X																																																			
5.50 Issue RFP(s)/Sole Source?	X			X																																																			
5.60 Vendor Selection & Compliance	X			X																																																			
5.70 Contracts	X			X																																																			
6.00 Installation																																																							
6.10 Installs	X		X																																																				
7.00 Measurement and Verification (7/2017-12/2018)																																																							
7.10 Data collection & synthesis	X		X																																																				
8.00 Regulatory Updates						X																																																	

Key

- NES: New Energy Solutions
- ADA: Advanced Data Analytics
- CMS: Cust. Meter Services
- GP: Global Procurement
- CBD: Customer Business Development
- JR: Jurisdiction

4.2 Updated Budget

Project Task	4 th Quarter Actual Spend	Project Total Spend to Date	Project Budget	Remaining Balance
CapEx				
	\$0.00	\$0.00	\$794,024	\$794,024
OpEx				
Services (net Cust Pmts)	\$0.00	\$0.00	\$723,300.00	\$723,300
Project Manager (labor and travel)*	\$5,573.00	\$5,573.00	\$53,802	\$48,229
Total	\$5,573.00	\$5,573.00	\$777,102.00	\$771,529

* Project manager costs were incorporated in a single project administration budget established for all four (4) gas REV demonstration projects in total from which each gas REV demonstration project draws upon.

At this time there is no basis to modify the Project budget. However, the higher than expected installed costs may provide upward pressure on the budget. Any increases will be kept within a 10% tolerance by managing project scope and modifying as needed.

5. Progress Metrics

Project evaluation will commence in Q1 2018 with the Yanmar unit and the remainder of the units in Q4 2018:

Scenario	Description
Energy Cost savings	
Reduction in gas and electric energy costs	Measure: Percent reduction in heating costs and electricity purchased from the grid. How and When: Two (2) years of historical energy consumption will be compared to end of each year of operation. Resources: National Grid's Specialty billing group, Con Edison, and PSEG-LI Target: 25% reduction in heating costs; 10% reduction in annual electric consumption Solution if off-target: Review and revise Current quarter: Evaluation has not commenced
System Benefits	

Gas and electric system benefits	<p>Measure: Estimate system costs to gas and electric infrastructure. How and When: End of each year of operation Resources: National Grid's Data Analytics group Target: Load factor improvement for gas and electric at each Project participant site. Solution if off-target: Review and advise</p> <p>Current quarter: Evaluation has not commenced</p>
Economic Growth	
Social economic benefits	<p>Measure: Total monetized benefits How and When: REMI (Regional Economic Models Inc.) analysis in the final report to the PSC Resources: REMI Target: Monetized benefits exceeds social economic costs Solution if off-target: Review and advise</p> <p>Current quarter: Evaluation has not commenced</p>
Resiliency	
Provide electricity at time of electric grid constraint and power outage	<p>Measure: Production of electricity in the event of a power disruption or a peak energy demand event How and When: Analysis of electricity consumption-monthly and during duration of power outage Resources: Con Edison, PSEG-LI, and National Grid's Data Analytics group Target: Displace at least 1 kW or grid-supplied power during an outage or an electric demand response event Solution if off-target: Review and revise</p> <p>Current quarter: Evaluation has not commenced</p>
Customer Satisfaction	
Satisfaction with the microCHP system compared to conventional equipment	<p>Measure: Percent of Project participants' "satisfied" or better How and When: Once prior to installation (baseline) and at end of each year of operation Resources: Survey Target: Exceeds utility satisfaction Solution if off-target: Review and revise</p> <p>Current quarter: Evaluation has not commenced</p>
Carbon Reduction	
Reduction in carbon emission	<p>Measure: Avoided units of carbon dioxide emissions How and When: End of each year of operation Resources: National Grid's Project Manager and Data Analytics group</p>

	Target: 30% reduction in output emissions Solution if off-target: Review and advise
	Current quarter: Evaluation has not commenced

Appendix

nationalgrid
HERE WITH YOU. HERE FOR YOU.

Lower your energy bills with a high efficiency system.

Apply to be a part of our micro combined heat and power demonstration project.

www.nationalgridus.com

For more information contact:
Andrew Barnes
 Andrew.Barnes3@nationalgrid.com
 929-324-4832
Chris Cavanagh
 Christopher.Cavanagh@nationalgrid.com
 929-324-4367

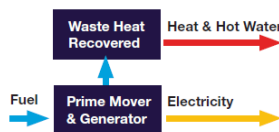
CM6785 (8/17)
00 x 8.50 in

What is Combined Heat and Power (CHP)?

CHP is an integrated energy system that:

- generates onsite electricity and heat
- can support heating, cooling, hot water or dehumidification
- is also referred to as Cogeneration

Combined heat and power is the generation of two forms of energy from one common source of fuel.



Benefits

- Lower your energy bills
- Generate your own power and sell excess power back to the utility
- Improve the resiliency of your property during power outages
- Reduce your carbon footprint
- Participate in Demand Response events – curtail your consumption during peak energy times and earn rewards

New York Reforming the Energy Vision (REV)

REV is New York's strategy for a clean, resilient, and more affordable energy future. National Grid is committed to being the utility of the future and the Micro CHP demonstration project is part of our efforts to bring innovative energy solutions to customers in New York State.

As part of the REV initiative, National Grid will install ten (10) mCHP units up to 5KWe each in its New York City and Long Island service territories. See if you qualify according to the criteria below.

Eligibility

- National Grid gas customer
- Electric customer in the following areas:

New York City:

Brooklyn: Greenpoint, East Williamsburg, Bushwick, Bedford-Stuyvesant, Crown Heights, East Flatbush, Brownsville, East New-York, Cypress Hills

Queens: Richmond Hill, Howard Beach, Broad Channel, Ozone Park, South Ozone Park, Woodhaven, Kew Gardens

Long Island:

Amagansett, Massapequa, Sayville, North Patchogue, New Cassel, Roslyn, Peconic, Riverhead

- Buildings can be family residences, apartment units, multi-family housing, restaurants, hospitality, or nursing homes. Preference will be given to installations that are eligible for net metering (can export excess power).
- No known permitting issues to install new equipment

Want to Learn More?

Please contact National Grid to learn more about the project and how you can participate.