

Energy Efficiency for Municipalities, Residents, and Businesses

NJLM Conference 2019

OILER NO.2

Speakers

Moderator: Mayor Vernon Marino, Woolwich Township

In order of presentation:

Matthew Blake, Director of Community Development, Woolwich Township Mark Niederman, Wycoff Green Team Janice Piccolo, Directory Community Services, Borough of Chatham Amanda Neshiewat, Environmental Director, Town of Secaucus Arif Welcher, Government and Business Manager, NJ Board of Public Utilities



What is Sustainable Jersey?

- Certification program for municipalities and schools
 - Tools, resources, and guidance to help municipalities and schools become more sustainable
 - Grants and funding for municipalities and schools
 - Regional Hubs







Program Participants





Municipal Program

Schools Program

Municipal Program

445 (79%) participating 200 Certified

- 152 Bronze
- 48 Silver

Schools Program

290 Districts (49%) 732 Schools 194 Schools Certified

- 181 Bronze
- 13 Silver





Municipal Program Energy Actions

| | Climate Planning and Energy Efficiency | Renewable Energy | Alternative Fuel Vehicles |
|-------------------------|--|--|---|
| Municipal Operations | Energy Tracking and Management Energy Efficiency for Municipal Facilities Municipal Carbon Footprint | On-Site Solar Energy On-Site Geothermal On-Site Wind Energy Purchase Renewable Energy | Fleet Inventory Purchase Alternative Fuel Vehicles (AFV) |
| Community Energy Use | Residential Energy Efficiency Outreach Commercial Energy Efficiency Outreach Community Carbon Footprint Climate Action Plan | Community Choice Aggregation (R-GEA) Make Your Town Solar Friendly Community-Led Solar Initiatives Wind Ordinance | Make Your Town EV Friendly Public EV Chargers |



Energy Efficiency for Municipal Facilities

- 5 points Audit on at least one building
- 10 points Local Government Energy Audit (LGEA) that covers all buildings
- **15 points** Significant upgrade work (at least 10% cost savings demonstrated)
- 20 points LGEA that covers all buildings PLUS significant upgrade work
- **30 points** Efficiency upgrades with 10%-19% decrease in energy consumption
- 40 points Efficiency upgrades with 20%-29% decrease in energy consumption
- 50 points Efficiency upgrades with at least 30% decrease in energy consumption





Energy Efficiency



A Series of Forums for the Wyckoff Community ENERGY 05.24.2016, WATER 05.31.2016, ENERGY for BUSINESS Fail 2016

Home Energy Efficiency Workshop

"Does your home feel drafty in the winter time or too hot in the summer?



Tuesday May 24, 2016 7:30- 8:30pm

The Wyckoff Environmental Commission and The Wyckoff Green Team are pleased to host an evening with representatives from the New Jersey's Clean Energy Program (NJCEP) to discuss generous incentives, up to \$14,000, to New Jersey home owners for improving the efficiency of their homes.

Reduce your ENERGY spending and increase your comfort...

Does your home feel drafty in the winter time or too hot in the summer? If so, the likely culprits are lack of proper insulation and air leaks – two common issues that increase your energy bills and reduce comfort of occupants.

SEVERAL INCENTIVES AVAILABLE:

Incentives are available for projects including insulation, air-sealing, and installation of high efficiency heating and cooling equipment. Energy efficiency upgrades to your home can save you up to 30% on energy costs, while improving the comfort, safety, and durability of your home.

Experts from the NJCEP will explain how New Jersey residents can make their homes more energy efficient. You'll learn how to get started with the program, and hear from a Wyckoff home owner who successfully upgraded his 100-year old home utilizing NJCEP incentives.







Wyckoff Public Library



Commercial Energy Efficiency Outreach

Green team partners with municipal officials to complete targeted outreach program to local businesses for the Direct Install program.



Energy Savings Improvement Plan

ESIP How-To Guide

- Case Studies
- Flow chart
- Contracting options
- Glossary

How to Implement an Energy Savings Improvement Plan Sustainable Jersey How-To Guide, V.2



Sustainable Jersey Sustainability Institute at The College of New Jersey Forcina Hall, 3rd Floor 2000 Pennington Rd. Ewing, NJ 08628-0718

http://www.sustainablejersey.com/grants-resources/publications/



Sustainable Jersey Supporters & Sponsors



Woolwich Township, Gloucester County, New Jersey







Matt Blake, PP, AICP Director of Community Development: (856) 467-2666 x 3134

- Woolwich Green Team determines to launch a Home Energy Audit Program
- Initially conceptualized as a municipal-wide campaign to promote energy efficiency and help residents reduce energy use and associated costs
- Established as way to promote awareness of practical resources available while increasing overall community sustainability







- Program is based on a model designed by
 Sustainable Jersey to encourage
 participation in the
 NJ Home
 Performance with
 Energy Star (HPwES)
 Program.
- Enables qualifying homeowners to receive up to \$4,000 in cash rebates and up to \$10,000 in zerointerest financing for home energy improvements.

ABOUT HOME PERFORMANCE WITH ENERGY STAR

It's amazing how comfortable and energy efficient your home could be with our "whole-house" solution.

Home Performance with ENERGY STAR, brought to you by the New Jersey Board of Public Utilities and its *Clean Energy Program*¹⁰ is an efficient approach to home improvements:

- Reduces energy costs by up to 30%
 Increases comfort and durability
- Helps reduce your carbon footorint.
- Provides you greater peace of mind and confidence anly contractors who have the BPI GaldStar designation can be a part of Home Performance with ENERGY STAR

This nationally acclaimed home improvement program uses the best of home testing techniques and upgrades to increase your home's energy performance, comfort, health and safety. Using a "whole-house" approach, specially trained and cortified technictians assess your home from top to bottom, laoking at the following components:

- · Air sealing opportunities
- Insulation levels
- Heating/cooling equipment

Following your assessment you will receive a list of recommended measures to improve the energy efficiency of your home. All the work is done for you by BPI GoldStar contractors who "test in and test out" to make sure your home is operating efficiently, safely and comfortably.



Did you know that up to 60%* of energy used to heat and cool homes is wasted due to leaky ducts, inefficient equipment, poor insulation and air leaks?

▶ High Quality Air Sealing

Homes can lose as much as 25% of their heating and cooling dollars due to inadequate sealing. Contractors can eliminate this problem by sealing joints and spaces in attics, ductwork, electrical outlets and other areas.

▶ Sealing up Ducts

Insulating and sealing cracked or disconnected ducts helps distribute oir more evenly and efficiently and keeps your home more comfortable. Sealing and insulating ducts can improve the efficiency of your heating and coding system by as much as 20 percent — and sometimes much more.

Equipment Replacement for Heating Systems and Central Air Conditioning

If your home's heating and cooling equipment is more than 10 years old, it may be time for a high efficiency replacement. ENERGY STAR qualified heating equipment can be up to 15% more efficient than standard models.

"Source: U.S. En Aronmental Protection Agency

Don't miss out on these great incentives!

- Low-interest financing and rebate options are available to pay for the improvement work.
- Incentives are also available for multi-family buildings.
- Check <u>NJCleanEnergy.com/HP</u> for funding that may be available for municipal electric, oil or propane customers.



"Every homeowner should participate in this program. It saves energy and money, and provides peace of mind. Each homeowner who participates is helping New Jersey and the United States become energy self-sufficient. We are helping save the environment. That's a great lesson and legacy to pass along."

- Bob Hoffmann, homeowner



NJCleanEnergy.com/HP

- Woolwich initiative modeled after a program successfully used by the City of Summit as showcased on Sustainable Jersey website
- Process included soliciting RFPs as part of a competitive selection process
- SPS Mechanical submitted a comprehensive proposal offering a \$49 home energy assessment/audit
- SPS is also a local business !

Schedule your Home Performance assessment and find out where the money is escaping from your home.



Your contractor checks for air sealing apportunities. Seeling air leaks will reduce energy loss and make your home more comfortable.

AIR SEALING

CO TEST



Your contractor checks for carbon monoxide. Health and safety is a critical component. A carbon monoxide (CO)

component. A carbon monoxide (CO) analyzer is used to check combustion appliances (stoves, fumaces and water heaters) for carbon monoxide levels.

Watch the Home Energy Assessment



Call 866-NJSMART or visit NJCleanEnergy.com/HP



For information on increased incentives for damage caused by Hurricane Sandy, visit <u>NJCleanEnergy com/SANDY</u>.



The Dubling Performance institute (EP) is a netion a building performance or elevitating, quality assume and standards solving organization. All contractures in New Jensy per initiating in Branch Performance and EMEROY STAPs are required to be BH Sector contractors.

> For additional information: Visit NJCleanEnergy.com Call 866-NJSMART



Stan Alex Cana Dang Angare is a raike sa panger anter Unit 4, et al Unite Tener Ben I Panki Uliki 1, bi Tena Sharang angare Cana anta sa anter sa pan ant Ben I Panki Uliki 1, bi Tena Sharang Angare Sharang Unit angare Sharang Sharang Sharang Angare Alexandroff serang Unit alu. Bendang Asarang Tenti 1, Uliki 2, Sharang Barta Sharang Bendang Asarang Tenti 1, Uliki 2, Sharang Barta Sharang



HOME PERFORMANCE WITH ENERGY STAR®



Save up to 30% on your energy costs.

Home Performance with ENERGY STAR is your "whole-house" solution for a more energy efficient, comfortable home.

SPS

- SPS audit is a comprehensive evaluation of the home that includes a review of energy usage, identification of health and safety issues, testing for carbon monoxide, gas leaks, mold/moisture issues, a blower door test, duct leakage test, thermal imaging and inspection of all existing insulation values
- SPS provides the homeowner with a detailed report outlining their findings with prioritized recommendations, costs, including assistance with necessary paperwork for qualifying for rebates and financing







Program promotion included:

- o Letters from the Mayor
- Municipal Newsletter
- Municipal Facebook Page
- o Earned media
- o Email blasts
- o Postcards
- Handouts at front desk



Township of Woolwich 120 Village Green Drive Woolwich Township, New Jersey 08085 856-467-2566 fax: 856-467-3545

January 16, 2019

Dear Woolwich resident:

The Township of Woolwich has recently launched a municipal wide compaign to promote energy efficiency and help residents of Woolwich reduce home energy use and associated costs through an energy audit program. The Woolwich Home Energy Awareness Program was established as a way to promote ewareness of practical resources available to residents to help save energy and money while increasing greater overall community sustainability.

This program is based on a model designed by Sustainable Jersey to encourage participation in the NJ Home Performance with Energy Star (HPwES) Program, which can help homeowners qualify for up to \$4,000 in cash rebates and up to \$10,000 in zero-interest financing for home energy improvements that could reduce energy use by up to 30 percent. To encourage residents to participate in the HPwES Program, the Woolwich Home Intergy Awareness Program is offering a \$49 home energy assessment. The Township of Woolwich has selected SPS Mechanical to perform these assessments. After performing a home energy qualit. SPS Mechanical will recommend possible home improvements to reduce energy use, and homeowners may quality for the HPwES Program incertives.

The energy audit is a comprehensive evaluation of the home that includes review of energy usage, identification of health and safety issues, testing for carbon monoxide, gas leaks, muld/mulsture issues, a blower door test, duct leakage test, thermal imaging and inspection of all existing insulation values. SPS will provide the homeowner with a detailed report outlining our findings with prioritized recommendations. SPS will also assist on all necessary poperwork for qualifying for rehates and financing.

To sign up for an energy audit with SPS Mechanical through the Woolwich Township Green Team, please contact SPS Mechanical to schedule your audit. Please consider participating in this Township-wide effort to create a more energy efficient community.

If you wish to learn more about the energy addit from SPS Mechanical staff, the Township will be hosting an informational session at the Municipal Complex located 120 Vilage Green Drive on Wed., Evbruary 13 at 7:00 p.m. South Jersey Gas will also be on hand to provide information on their financing & rebates, as well as available rebates through the NJ Clean Energy Program. Light snacks will be provided. If you have any questions, pleuse contact Matt Black, Discotor of Community Development, at (855) 467-2666, ext. 3134.

Vernon Marino, Mayor



- Direct mailings proved costly.
 However, a generous grant from SJ Gas covered postcard printing and postage
- Additional \mathbf{O} savings realized from utilizing **USPS Every Door Direct Mail** (EDDM), which allows one to select mail carrier routes thus avoiding costs and time involved with using individual addresses

Woolwich Home Energy Awareness Program

"Woolwich Home Energy Awareness Program" is a municipal wide initiative established to promote awareness of practical resources available to residents to help save energy and money while increasing greater overall community sustainability.

Through a partnership with Woolwich Township, SPS Mechanical is offering a \$49 Home Energy Assessment to residents. Take the first step towards preserving and protecting the environment and lowering your utility bills by logging onto www.spsmechanical.com and scheduling your home energy assessment today.

Step 1 Schedule Your Energy Audit.

The Home Energy Audit is a comprehensive evaluation of the home that includes a review of energy usage, identification of health and safety issues, testing for carbon monoxide, gas leaks, mold/moisture issues, a blower door test, duct leakage test, thermal imaging and inspection of all existing insulation values.

Simple Steps to Savings

Step 2 Review & Install Upgrades!

SPS will provide you with a detailed report outlining their findings with prioritized recommendations including, which energy-saving measures will have the biggest return on investment for your home and how much money is available to you in incentives and financing. You decide which measures to pursue. You can use SPS Mechanical or another Home Performance with Energy Star-certified contractor as provided at www.njcleanenergy.com/hp

Step 3 Get Your Rebate!

The contractor will handle all of the paperwork and processing so you don't have to! SPS Mechanical will ensure that your financing is handled properly and your rebate is delivered within 120 days of the date the improvements were installed in your home.

SOUTH JERSEY



- For the postcard mailing, the program was expanded to include the Borough of Swedesboro
- Mailings reached 4,761 households in both Woolwich, Swedesboro

 Woolwich largely comprised of newer homes in comparison to Swedesboro, which is characterized by older homes The Woolwich Home Energy Awareness Program is encouraging participation in the NJ Home Performance with ENERGY STAR® program, which is offering up to \$4,000 in rebates and up to \$10,000 of interest-free financing to replace outdated furnaces, boilers, hot water heaters, and insulation with new energy-efficient products that that could reduce energy use by up to 30%.

Through a competitive process, the Township selected SPS Mechanical to perform these assessments. SPS will also assist on all necessary paperwork for qualifying for rebates and financing.

Contact SPS Mechanical today to schedule your Home Energy Audit at 856-467-0527 or www.spsmechanical.com



The Woolwich Home Energy Awareness Program was established to promote practical resources available to help residents within both Woolwich Township and the Borough of Swedesboro save energy and money while increasing greater overall community sustainability.

Mayor Vernon Marino and Tom Fromm - Working together for both communities.

What did we learn and how successful was the program?

- 70 audits conducted ! Includes 10 signed contracts
- SPS believes they may have priced the evaluation too low, attracting less serious consumers
- With change in weather, they anticipate more contracts
- SPS also conducting audit of Municipal Complex

| WOOLWICH TOWNSHIP HP | WOO | LWICH | TOWN | ISHIP | HPE |
|----------------------|-----|-------|------|-------|-----|
|----------------------|-----|-------|------|-------|-----|

| | | H | IPE | REV | VIEW | COMPLIOB | ENERGY SAVINGS |
|---------------------|---------------|-------------|-------------|------------|-----------|-----------------|----------------|
| ADDRESS | Prospect Date | SCH | COMPL | SCH | COMPL | | |
| | | | | | | | |
| Hunters Run | 2/1 | 2/8 | 2/8 | 2/18 | 2/18 | | |
| Farm Way | 2/4 | 2/13 | 2/13 | 2/21 | 2/21 | 6/26 | 21% |
| Wilshire Blvd | 2/4 | 2/15 | 2/15 | 2/25 | 2/25 | | |
| Windsor Drive | 2/4 | | | | | | |
| Licciardello Drive | 2/4 | | | | | | |
| Juniper Lane | 2/4 | 2/13 | 2/13 | 2/26 | 2/26 | | |
| Beech Ave | 2/11 | 3/20 | 3/20 | | | | |
| Brattleboro Road | 2/4 | 2/8 | 2/8 | 2/18 | 2/18 | | |
| Joseph Court | 2/5 | 2/15 | 2/15 | 2/26 | 2/26 | | |
| Davison Road | 2/6 | 2/22 | 2/22 | 3/15 | 3/15 | | |
| 115 Minute Man Lane | 2/7 | 3/2 | CUSTO | MER CANCE | ELLED | | |
| Cedar Court | 2/11 | 2/21 | 2/21 | 3/6 | 3/6 | | |
| Hill Farm Way | 2/12 | 3/20 | 3/20 | | | | |
| Springhill drive | 2/13 | 2/28 | 2/28 | 3/15 | 3/15 | | |
| Eagle Court | 2/14 | 2/25 | 2/25 | 3/9 | 3/9 | | |
| Brattleboro | 2/18 | 2/20 | 2/20 | 3/18 | 3/18 | | |
| Windsor Drive | 2/19 | CUST | OMER CANC | ELLED | | | |
| Monroeville Road | 2/22 | 3/4 | 3/4 | 3/13 | 3/13 | 5/24 | 18% |
| Tara Run Road | 2/22 | 3/16 | 3/16 | 3/29 | 3/29 | | |
| Fox Chase Run | 2/22 | 3/4 | 3/4 | 3/15 | 3/15 | | |
| Indepenance Court | | 2/22/2019 | due to work | already co | mplete | | |
| Ramona Lane | 2/21/2019 | already had | work comple | ted by and | ther comp | any | |
| Lexington Mews | 2/21/2019 | cancelled | | | | | |
| Russell Mill Road | 2/25 | 3/6 | 3/6 | 3/25 | 3/25 | SIGNED CONTRACT | 3935 |
| Windsor Drive | 3/5 | | | | | | |
| Maple Hill Drive | 3/5 | 3/8 | 3/8 | 3/18 | 3/18 | | |
| Gabriele Circle | 3/5 | 3/13 | 3/13 | 3/22 | 3/22 | | |
| Concord Court | 3/13 | 3/23 | 3/23 | 4/8 | 4/8 | 5/17 | 23% |
| Beech Lane | 3/18 | 3/30 | 3/30 | 4/9 | 4/9 | | |
| Natalie Drive | 3/21 | 3/27 | 3/27 | 4/9 | 4/9 | | |
| Messina Drive | 3/25 | 4/5 | 4/5 | 4/18 | 4/18 | | |
| Washington Way | 3/26 | 4/4 | 4/4 | 4/17 | 4/17 | | |
| Kings Court | 4/3 | 5/4 | 5/4 | 5/16 | 5/16 | | |
| Yorktown Road | 4/3 | 4/19 | 4/19 | 5/6 | 5/6 | | |
| Hylton Rd | 4/8 | 4/15 | 4/15 | 5/3 | 5/3 | | |

If I were emperor of the world, I would put the pedal to the floor on energy efficiency and conservation. Steven Chu

THANK YOU !



Mark Niederman

- Wyckoff Green Team
- VP Buildings & Grounds,

Temple Beth Rishon, Wyckoff, NJ

- Principal, ConservAction
- LEED, A.P.



Commercial Energy Efficiency Outreach

10 Points 20 Points

New Action May 2017

Important note: This action replaces the Direct Install Outreach Campaign to Local Business Community action and the Achieving Target Increase in Local Business Participation action. This new action simply combines those two previous actions into a single variable point action.

Previously approved "Direct Install Outreach Campaign to Local Business Community" and "Achieving Target Increase in Local Business Participation" actions will remain in the municipality's application and count towards the certification requirements until they expire.

Questions regarding this action can be directed to Samantha McGraw at 609-771-2938 or by emailing info@sustainablejersey.com.

This action encourages municipalities to promote the Direct Install component of the New Jersey Clean Energy Program (NJCEP). The Direct Install incentive covers 70% of the cost of building energy efficiency upgrades for small businesses. The benefit to the municipality is strengthening the local economy by helping to reduce small business' operating expenses and reducing the community carbon footprint at no cost to local taxpayers. To earn points, a municipality must actively promote the Direct Install Program to local businesses in partnership with the NJCEP.

The "Players"









TOWNSHIP OF WYCKOFF Memorial Town Hall - 340 Franklin Avenue Wyckoff, New Jersey 07481-1907







TOWNSHIP OF WYCKOFF MEMORIAL TOWN HALL - 340 FRANKLIN AVENUE WYCKOFF, NEW JERSEY 07481-1907 TEL: 201-891-7000 FAX: 201-891-9359

February 6, 2019

Dear Owner of Business Property:

The Wyckoff Environmental Commission/Wyckoff Green Team and the Wyckoff Chamber of Commerce are reaching out to make you aware of a State of New Jersey program (offered by the NJ Board of Public Utilities (NJBPU) in partnership with Sustainable Jersey) that provides hands-on assistance to help reduce your energy bills and save money on your bottom line while helping to create a cleaner, healthier community.

This state program will pay up to 70% of the cost of energy savings upgrades to your building and can be completed in as little as 90 days. The program, called **DIRECT INSTALL**, begins with an initial FREE, absolutely no-obligation energy assessment of your building. Once completed, the payback period on your initial investment can be as short as one year... while the energy and cost savings you will enjoy can last up to 15 years.

The Township of Wyckoff has previously utilized this effective program and we were able to improve energy efficiency in our municipal buildings at a fraction of total costs of the improvements we would normally have expended without the "NJ DIRECT INSTALL PROGRAM." Businesses can enjoy the same benefits to their bottom line, and recoup the savings in their energy bills to make their businesses more competitive.

Below is the contact information for our local NJ Direct Install Contractor (established by the NJBPU after advertised competitive bidding), as well as the name of our Bergen County Coordinator to help guide you through this program. Please reach out to them so that we can help you start to save money and energy right away.

For more information about the NJDirect Install Program, please visit: <u>http://nicleanenerg:y.com/commerical-industrial/programs/direct-install</u>

NJ Board of Public Utilities Approved Direct Install Contractor Mr. Fran Burke at Lime Energy fburke@lime-energy.com

Bergen County Coordinator for NJDirect Install Program Mr. Mike Mandzik at TRC Solutions MMandzik@trcsolutions.com



Sincerely, Wyckoff Township Committee

Thomas J. Madigan, Mayor



Thomas J. Madigan, Ma Rudolf E. Boonstra Melissa D. Rubenstein Brian D. Scanlan Timothy E. Shanley

The Township of Wyckoff has developed this notice to apprise business property owners in the Township of Wyckoff of this NJBPU Program for Energy Savings.

A New Small Business Program to Help Save Money!

The State of New Jersey <u>"Direct Install"</u> <u>Program</u> will PAY up to 70% of the TOTAL cost to replace your furnaces, boilers, central air conditioning units, and qualified lighting..... RIGHT NOW!

- Wyckoff's Municipal buildings have already taken advantage of this program's energy efficiency upgrades;
- > Your building's energy assessment is included for FREE;
- > No rebates or excess paperwork;
- > Quality, energy-efficient units: Trane, Carrier, York;
- Completely, "turn-key" state facilitators take care of all permits, labor, materials and removal of existing units

CALL Lime Energy to schedule your FREE Energy Assessment. Get started now.....SAVE **GREEN** and Start Saving NOW!

First Come, First Serve until funds are depleted.

**



Lime Energy Fran Burke fburke@lime-energy.com

NJ Clean Energy Program Mike Mandzik MMandzik@trcsolutions.com

Societal Benefit Charge (SBC)

1333

-1269

x 160

10240

64

\$4.53

ELECTRIC RESIDENTIAL RE-DEL-PJM Meter Number: Oct 22 reading (Actual) Sep 23 reading (Actual) Meter reading difference Meter multiplier

Distribution Charges

Total Usage KWH 29 Days

| CURRENT ELECTRIC | CHARGES | | \$1,572.96 |
|---------------------------|-------------|-------------|------------|
| Total Supplier Charg | e | | 989.18 |
| Temp Tax Act Cr | 10240 KWH @ | -0.23500¢ | -24.06 |
| Transition Bond Tax | 10240 KWH @ | 0.00000¢ | .00 |
| Transition Bond Chg | 10240 KWH @ | 0.0000¢ | .00 |
| RGGI Surcharge | 10240 KWH @ | 0.20680¢ | 21.18 |
| Smart Grid Surcharge | 10240 KWH @ | 0.00000¢ | .00 |
| ZEC Recovery Charge | 10240 KWH @ | 0.42650¢ | 43.67 |
| SBC Chg | 10240 KWH @ | 0.60470¢ | 61.92 |
| Next | 9640 KWH @ | 4.669¢ each | 450.18 |
| Next | 350 KWH @ | 4.393¢ each | 15.38 |
| First | 250 KWH @ | 4.393¢ each | 10.98 |
| Dies in alleri e flat gee | | | |

For automatic enrollment in Budget Billing, pay \$2,436.00 instead of the current charges on your bill.

We offer convenient payment options such as pay by phone, pay online or in person at Rockland Electric Co, 1 Lethbridge Plaza Suite 32, Mahwah

You may receive future Termination Notices written in Spanish. Si le gustaría recibir avisos de terminación de servicio en español, llame gratis al 1-877-434-4100 de 8:00 a.m. a 7:00 p.m. lunes a viernes.

| BILLING DATE 10/22/19 | |
|--|----------------|
| ACCOUNT NUMBER | |
| Last Bill | \$1,734.35 |
| Payment - Internet 10/03/19 | -1,734.35 |
| Service Charges Electric | 1,572.96 |
| TOTAL AMOUNT DUE | \$1,572.96 |
| Avg. Temp This Period Same Period Last Year | 61 °F 59 °F |
| ELECTRIC USAGE: MONTHLY ELECTRIC USAGE: MONTHLY ELECTRIC USAGE: MONTHLY ELECTRIC USAGE: MONTHLY FINAL ON D J F M A M J J A S 2019 | OAVG |
| ACTUAL ESTIMATED AVG. CUS | ST PROFILE |

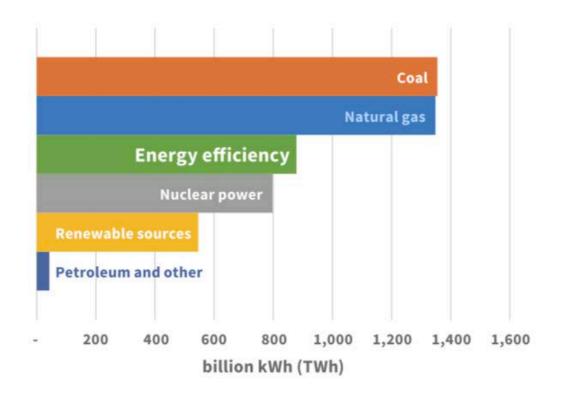


Energy savings from customer energy efficiency programs are typically 1/3 the cost of new generation resources.

Efficiency programs can also reduce the need to install, upgrade or replace transmission and distribution equipment.



Figure 5. US electricity generation and savings from energy efficiency in 2015



(Energy Efficiency through policies implemented since 1990)



Without the energy efficiency investments we have made since 1990, we would need the equivalent of 313 additional large power plants today to meet the country's energy needs.

Between the Lines

The cost comparisons do NOT include:

- The value of Energy Independence lesser reliance on foreign governments, less need to tailor foreign policy goals to ensure energy commodity flows
- Creation of jobs in weatherization, retrofits, etc.
- Environmental Benefits such as cleaner air, cleaner water and reduction of greenhouse gas emissions

Projections from Direct Install Work at Town Hall, Wyckoff

| | and the second se | mary | 1-987 - <u>2</u> |
|------------------------|---|----------------------------------|---------------------------|
| Annual Cost Savings | Total Measure Cost | Estimated Incentive Amount | Total Cost to Customer |
| \$5,631.60 | \$20,736.72 | \$14,515.70 | \$6,221.02 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$5,631.60 | \$20,736.72 | \$14,515.70 | \$6,221.02 |
| \$897.80 | \$1,924.60 | \$1,347.22 | \$577.38 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 30.00 | \$0.00 | \$0.00 | \$0.00 |
| \$6,529.39 | \$22,661.32 | \$15,862.92 | \$6,798.40 |
| : 1.04 | | ECT TRC TEST: | |
| | | " | "Low-hangir |

Where We've Been / Where We're Going

| 2009 energy audit conducted by Dome Tech Inc. Upgrades implemented in 2010-2011 | | Baseline E from Ener | 0, | 0 | 7/1/09 | | | nge: Past 12 d Gas utility | | 2/18/18- 2/19/19 | | | |
|---|---------------------------------|-------------------------------------|-------------------------|--|-----------------------------|-----------------|-------------------------------------|-------------------------------|--|-------------------------|----------------|-----------------------------|----------|
| Building | Building area in square feet | Grid purchased electricity (kWh) | Natural gas (therms) | On-site generat electrici (kWh) | d total kbtu per y month | Baseline EUI | Grid purchased electricity (kWh) | Natural Gas (therms) | On-site generated electricity (kWh) | total kbtu per month | Current EUI | % Change EUI in Facility | Weighted |
| Wyckoff Town Hall/Police Dept | 25,000 | 194,980 | 10,847 | | 3,228,501 | 129.1 | 180,367 | 9,449 | | 2,925,106 | 117.0 | -9.4% | -5.32% |
| Wyckoff Fire House 1 | 10,000 | 93,920 | 11,044 | | 2,166,144 | 216.6 | 88,160 | 9,160 | | 1,906,595 | 190.7 | -12.0% | -2.71% |
| DPW | 9,200 | 108,160 | 7,821 | | 1,980,336 | 215.3 | 90,720 | 8,191 | | 1,832,285 | 199.2 | -7.5% | -1.56% |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | -9.58% |

| LGEA | | Baseline Ei Ener | nergy Usa gy Audit E | - | | 12/31/18 | | | ntial Savings rom Energy | | | | | |
|-----------------------|--------|-------------------------------------|-------------------------|---|--|-------------------------|-----------------|---|-----------------------------|--|--|---------------------------------|-----------------------------|----------|
| Building | 0 | Grid purchased electricity (kWh) | Natural Gas (therms) | | On-site generated electricity (kWh) | total kbtu per month | Baseline EUI | Potential electricity savings from ECMs (kWh) | | Potential on-site generated electricity from ECMs (kWh) | total kbtu per month after energy upgrades | EUI after Energy Upgrades | % Change EUI in Facility | Weighted |
| Town Hall/Police Dept | 25,000 | 179,981 | 9,967 | | | 2,975,362 | 119.0 | 40,443 | 938 | | 2,443,452 | 97.7 | -17.9% | -8.56% |
| Wyckoff Fire House 1 | 10,000 | 89,052 | 9,751 | | | 1,978,209 | 197.8 | 13,772 | 2,220 | | 1,597,517 | 159.8 | -19.2% | -3.69% |
| DPW | 9,200 | 89,355 | 8,638 | | | 1,864,591 | 202.7 | 21,585 | 0 | | 1,633,269 | 177.5 | -12.4% | -2.19% |
| Recreation Center | 2,000 | 6,953 | 1,843 | | | 267,988 | 134.0 | C | 1,476 | | 113,008 | 56.5 | -57.8% | -2.22% |
| Larkin House | 6,000 | 15,530 | 0 | | | 166,432 | 27.7 | 12,320 | -49 | | 39,546 | 6.6 | -76.2% | -8.76% |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | -25.41% |

Projections from Direct Install Work at Temple Beth Rishon, Wyckoff

| | | | Pr | oject Sum | mary | |
|-------------------------------|-----------------------------|--------------|------------------------|--------------------------|----------------------------------|---------------------------|
| | Annual Energy Savings | Energy Units | Annual Cost Savings | Total Measure Cost | Estimated Incentive Amount | Total Cost to Customer |
| Lighting Measures Total: | 57,732 | kWh | \$9,144.56 | \$11,617.86 | \$8,132.50 | \$3,485.36 |
| Motors & VFD Measures Total: | 0 | kWh | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| HVAC Electric Measures Total: | 3,520 | kWh | \$557.61 | \$21,155.00 | \$14,808.50 | \$6,346.50 |
| Refrigeration Measures Total: | 2,867 | kWh | \$454.17 | \$687.50 | \$481.25 | \$206.25 |
| ELECTRIC MEASURES: | 64,120 | kWh | \$10,156.34 | \$33,460.36 | \$23,422.25 | \$10,038.11 |
| GAS MEASURES: | 1,766 | Therms | \$1,717.57 | \$21,522.59 | \$15,065.81 | \$6,456.78 |
| OIL MEASURES: | 0 | Gallons | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| TOTAL PROPANE MEASURES: | 0 | Gallons | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CONVERSION MEASURES (OIL): | 0 | Gallons | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| CONVERSION MEASURES GAS: | 0 | Therms | Ş0.00 | Ş0.00 | Ş0.00 | Ş0.00 |
| co | MBINED PRO | JECT TOTALS: | \$11,873.91 | \$54,982.95 | \$38,488.07 | \$16,494.89 |

PROJECT TRC TEST: 2.27

1.39

SIMPLE PAYBACK (YEARS):

Preliminary Results from Direct Install Work at Temple Beth Rishon, Wyckoff

| 2016 2017 2018 2019 | | | |
|--|----------|------------|----|
| | | | |
| September 17,440 \$2,892.92 75 September 15,680 \$2,669.22 69 September 16,800 \$2,686.20 74 September | · 10,720 | \$1,734.35 | 69 |
| October 13,760 \$2,147.23 60 October 12,800 \$2,044.25 65 October 13,120 \$1,994.88 60 October | 10,240 | \$1,572.96 | 59 |

| | 3 Yr Avg: 2 | 2016-18 | 2019 (Aftei | ⁻ Direct Install) | Δ |
|--------------|-------------|------------|-------------|------------------------------|-------|
| September | 16,640 | \$2,749.45 | 10,720 | \$1,734.35 | 35.6% |
| October | 13,227 | \$2,062.12 | 10,240 | \$1,572.96 | 22.6% |
| Avg 2 months | 14,933 | \$2,405.78 | 10,480 | \$1,653.66 | 29.8% |

Sample size is too small to extrapolate conclusions, but impact is positive



Sustainable Jersey

Energy Efficiency for Municipal Facilities



Janice Piccolo Chatham Borough Community Services Director



What do I need prior to completing action requirements?

Supportive Council

Supportive Engineer

Facilities liaisons (Department of Public Works / Library / etc.)



General Requirements

| Overview | • | Making municipal buildings more energy efficient saves taxpayer money while also contributing to solutions for some of our most pressing environmental sustainability issues | | | |
|---|---|--|--|--|--|
| Why is it important? | • | Buildings are the biggest source of emissions and energy consumption The EPA estimates that if the energy efficiency of commercial and industrial buildings improved by just 10 percent, Americans would save about \$20 billion annually and reduce greenhouse gas emissions | | | |
| Who should lead and be involved with this action? | • | The municipal green team will initiate and advocate for the implementation of this action It is also important to involve municipal leadership, staff at the municipal level who are involved in energy and purchasing, finance and business administration staff, and other volunteers who can advocate for the program | | | |



General Requirements

| Timeframe | • | Typical audit timeframes can range from a couple of weeks to 6 months Project schedules can range from several months to several years |
|---------------------------------------|---|--|
| Project Costs and Resources Needed | • | <u>Costs</u> - typically little to no initial costs because incentives offered by utility companies can offset audit costs The costs for implementing building efficiency projects can vary widely, depending on the scope and scale of the project, from tens of thousands to millions of dollars <u>Resources</u> - financing programs are available, either through state-sponsored programs or from commercial project developers In most cases, actual "out of pocket" expenses can be minimized or eliminated through careful use of state incentives and project finance solutions |

| How to | • | Municipalities should begin the process by getting an energy audit done on all of their buildings |
|--------|---|--|
| | • | Once the audits are complete, proceed to upgrading the facilities based on the audit recommendations |



General Requirements

| What to Submit | <u>Description of Implementation</u> - describing what has been accomplished and the impact it |
|----------------|--|
| | has had on municipality |
| | Documentation for Scale of Points: |
| | <u>5 points</u> - Upload a copy of the audit |
| | <u>10 points</u> - Upload copies of audits for every building in portfolio |
| | <u>15 points</u> - Provide documentation of energy efficiency upgrades completed for |
| | one building, along with evidence that these have (or will) result in at least a 10% |
| | annual energy savings |
| | <u>20 points</u> - Provide a copy of the Local Government Energy Audit report for all |
| | buildings, and provide documentation of energy efficiency upgrades completed for |
| | one building, along with evidence that these have (or will) result in at least a 10% |
| | annual energy savings |
| | <u>30/40/50 points</u> - Upload a completed copy of the Sustainable Jersey Energy Use |
| | Intensity Spreadsheet or equivalent documentation from Energy Star Portfolio |
| | Manager showing energy consumption for all buildings in the municipal portfolio |
| | for two separate years, one before upgrades and one after. |
| | 10% savings = 30 points |
| | ■ 20% savings = 40 points |
| | ■ 30% or greater savings = 50 points |
| | |



Points Scale

| 5 points | Completion of an audit on at least one building, but not covering all buildings |
|-----------|--|
| 10 points | Completion of a Local Government Energy Audit that covers all buildings under municipal control |
| 15 points | Significant upgrade work performed on one building (at least 10% cost savings demonstrated) |
| 20 points | Completion of a Local Government Energy Audit that covers all buildings under municipal control as well as significant upgrade work performed that shows at least a 10% demonstrated cost savings for one building |
| 30 points | Energy efficiency upgrades that show between a 10% to 19% decrease in energy consumption for the entire building portfolio |
| 40 points | Energy efficiency upgrades that show between a 20% to 29% decrease in energy consumption for the entire building portfolio |
| 50 points | Energy efficiency upgrades that show at least a 30% decrease in energy consumption for the entire building portfolio |





Chatham Borough's Application Overview

Energy-efficient upgrades since 2015 have significantly reduced Site and Source EUI.

| Actions | Results |
|--|---|
| 2010 Energy Audit - Recommendations under LGEA Program Relacing all original windows (used to be single-glazed) to low-E double-glazed in November 2015 Automatic Temperature Control System installation Incandescent light fixtures to CFLs | Study Period: November 2015 - December 2017 Source EUI declined 12.5% Site EUI declined 12.6% Requested: 20 points Completing a LGEA 10% reduction in energy usage |
| By tracking energy usage, we were able to secure upgrades to the Municipal Buildings that have resulted in tangible reductions in energy usage | |

ENERGY EFFICIENCY FOR MUNICIPAL FACILITIES

Audit Recommendations

SUSTAINABLE JERSEY CIMILAN DOROLGII

| Municipal Building and Police Department | Public Works and Water Plant |
|--|--|
| ~ Original single-glazed windows replaced with a low-E double- glazed type | Upgrade 8 Metal Halide fixtures to 15Upgrade 63 T12 fixtures to T8 fixtures |
| ~ Install 13 occupancy sensors | |
| ~ 9 incandescent Exit signs replaced with LED type | |
| ~ Upgraded 301 T12 fixtures to T8 | |
| ~ Upgrade 32 T12 fixtures to T8 fixtures | |
| ~ Replace ductwork, zone dampers, and automatic temperature control system | |
| Install one motion sensor to turn on lights and make dark areas safe | |
| ~ Water-efficient lavatory fixtures | |
| Replace boiler with two 93% AFUE high-efficiency condensing boilers | |
| ~ Replace domestic water heater with 95% efficient unit | |



Total Project Cost with Grant Benefits

Project: Chatham Borough - 2 Buildings

| \$151,478.48 | |
|--------------|--|
| \$84,353.78 | (56%) |
| \$67,124.70 | (44%) |
| \$20,000.00 | (13%) |
| \$47,124.70 | (31%) |
| \$17,329.47 | |
| 2.7 years | |
| | \$84,353.78 \$67,124.70 \$20,000.00 \$47,124.70 \$17,329.47 |

Costs for Individual Buildings

| The total cost of the proposed project is: | \$57,256.30 | |
|--|--|-------------------------|
| The NJ Clean Energy Incentive covers: | \$34,353.78 | (60%) |
| The cost to your municipality is: | \$22,902.52 | (40%) |
| The EECBG Rebate (not shown in the project details) covers: | \$7,500.00 | (13%) |
| The total cost to your municipality, including the EECBG Rebate, is: | \$15,402.52 | (27%) |
| The estimated annual energy savings associated with this project is: | \$8,040.08 | |
| Therefore, the estimated payback period for these measures is: | 1.9 years | |
| oject: Chatham Borough - Public Works and Water Plant | | |
| | | |
| The total cost of the proposed project is: | \$94,222.18 | (53%) |
| The total cost of the proposed project is: The NJ Clean Energy Incentive covers: | \$94,222.18 \$50,000.00 | (53%) (47%) |
| The total cost of the proposed project is: The NJ Clean Energy Incentive covers: The cost to your municipality is: | \$94,222.18 | (53%) (47%) (13%) |
| The total cost of the proposed project is: The NJ Clean Energy Incentive covers: The cost to your municipality is: The EECBG Rebate (not shown in the project details) covers: | \$94,222.18 \$50,000.00 \$44,222.18 | (47%) |
| oject: Chatham Borough - Public Works and Water Plant The total cost of the proposed project is: The NJ Clean Energy Incentive covers: The cost to your municipality is: The EECBG Rebate (not shown in the project details) covers: The total cost to your municipality, including the EECBG Rebate, is: The estimated annual energy savings associated with this project is: | \$94,222.18 \$50,000.00 \$44,222.18 \$12,500.00 | (47%) (13%) |



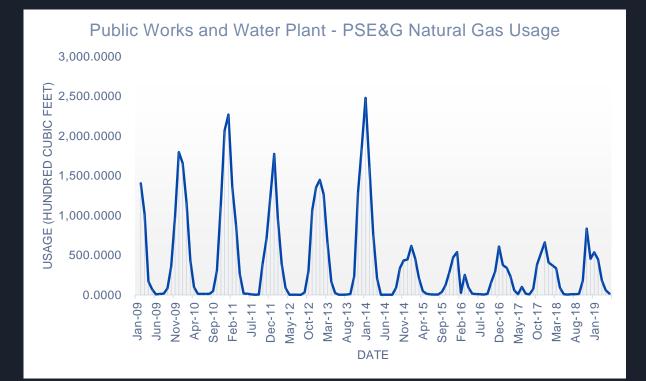


Chatham Borough Energy Comparison Municipal Building and Police Department

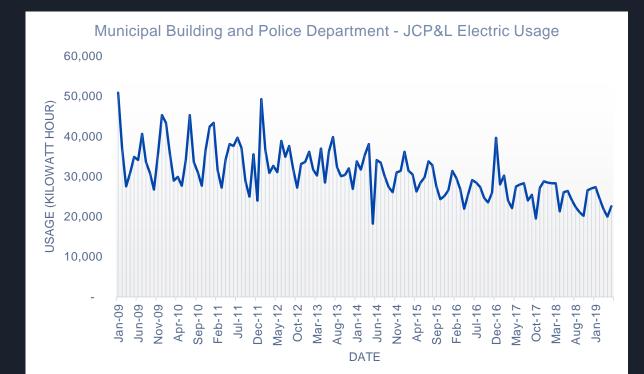
| | November 2015 | December 2017 |
|-----------------------------|------------------|------------------|
| Source EUI (kBtu/ft²) | 161 | 140.8 |
| Site EUI (kBtu/ft²) | 68.5 | 59.9 |
| Energy Cost (\$) | 51,087.08 | 44,633.60 |











Town of Secaucus - ESIP

Amanda J Nesheiwat Environmental Director



YEAR OF CLIMATE ACTION -2018

Develop A Carbon Footprint

Increase EV Infrastructure

LGEA- Energy Upgrades/Schneider Electric

Direct Install- LED Buidling

Outreach to Business Community about BPU Energy Incentives

Energy Sage- Residential Access to Solar

Energy Aggregation (Municipal)

Hudson County Microgrid Project

Increase Recycling Rate

Climate Action Plan for 2019

Energy Savings Improvement Program (ESIP)

- BPU Clean Energy Program- Under Chapter 4 of the Laws of 2009 (the law), the "Energy Savings Improvement Program" (ESIP), provides all government agencies in New Jersey with a flexible tool to improve and reduce energy usage with minimal expenditure of new financial resources.
- ° Started in 2017
- ° 21 Energy Audits
- Our Town Administrator, Project Manager, and Building and Grounds Staff, Finance and Purchasing Dept.

ESIP- Next Steps

- ^o 6 Buildings were chosen- Town Hall, Senior Center, Recreation Center, Old Recreation Center, Golden Ave Pump Station, DPW Garage
- ° RFP Process
 - ° Pre- conference
 - ° Interviews
 - ° Evaluations

ESIP-Challenges

 It's a big decision- Be prepared to answer questions from Mayor, Town Council and Town Attorney!

- BPU is VERY helpful!
- ° Be mindful of the guidelines- Get help if needed.
 - ° Hudson County
 - ° Greener by Design

ESIP - Future

- ° We are awarding an ESCO later this month by Resolution
- We hope to start working with our ESCO and municipal staff on the design of this program in January 2020.
- ° We would like to help Secaucus School District do an ESIP.
- ° Maybe expand the program to do more buildings in the future.



Thank you!

Amanda J Nesheiwat

anesheiwat@secaucus.net

201-864-7336



New Jersey's Clean Energy ProgramTM

NJLM Session: Energy Efficiency for Municipalities, Residents, and Businesses

November 19, 2019



NJCEP Background

ADMINISTERED BY

New Jersey Board of Public Utilities' Office of Clean Energy

FUNDING

Societal Benefits Charge (SBC) on utility bill

PROGRAM GOALS

- Education
- Change behavior
- Provide opportunity for ALL NJ residents to reduce energy and lower operating cost
- Protect the environment and lower emissions
- Meet Governor's goal of 100% clean energy by 2050





Business Ombudsman

The Office of the BPU Business Ombudsman is a legislativelymandated office within the New Jersey Board of Public Utilities. The Ombudsman's mission is to assist the state's commercial and industrial energy users in managing their energy costs through a strategic approach to efficiency, renewable technologies and supply purchasing.

The office can assist businesses with requests regarding incentives, act as a liaison between businesses and the state if questions regarding energy use occur, and can provide informational sessions about our incentive programs.

The office can be reached at ombudsman@bpu.nj.gov

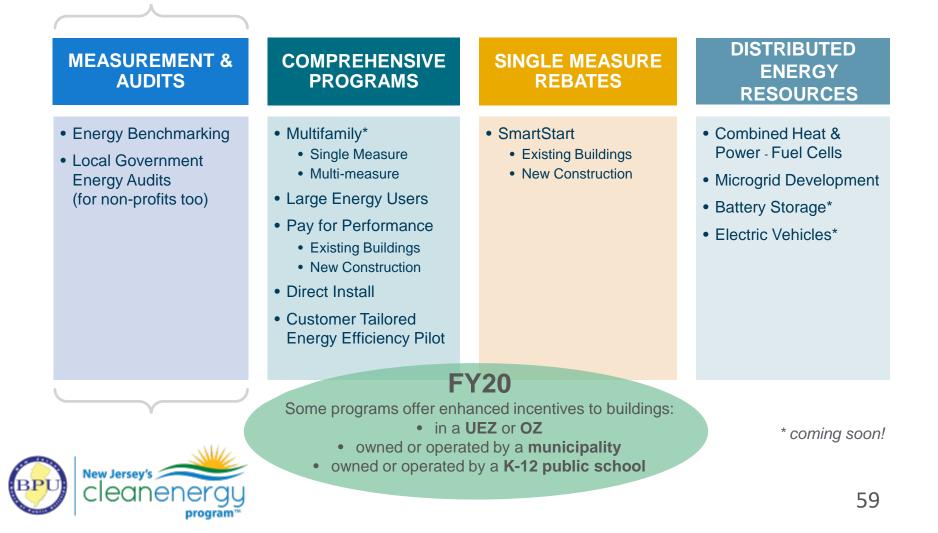


C&I PROGRAMS



C&I Portfolio of Programs

Eligible Sectors: Commercial, Industrial, Government, Schools, Non-Profit, Institutional and Multifamily







SINGLE MEASURE REBATES

WHO All C&I: Commercial, Industrial, Agricultural, Government, Non-Profit and Institutional customers

SIZE TO N/A QUALIFY

- ABOUT
 Individual high efficiency equipment rebates for new construction, renovation, remodeling, equipment replacement
 - Prescriptive and custom designed measures
 - Pre-approval required for lighting ≥ \$100,000 and <u>all</u> custom measures
- INCENTIVE
 Prescriptive: \$500,000 for each electric or gas account
 Custom, lesser of the following:
 - \$0.16/kWh and/or \$1.60/therm saved annually;
 - 50% of incremental installed cost; and
 - Buy-down to 1 year payback based on incremental cost and savings



Direct Install

NJCleanEnergy.com/DI

WHO Small to medium sized C&I existing facilities seeking to replace inefficient equipment



PROGRAMS

COMPREHENSIVE

- **SIZE TO** Average annual peak demand <200 kW in the previous 12 months **QUALIFY**
- ABOUT
 A pre-approved regional Participating Contractor will do a walkthrough evaluation and guide users through the program phases
 - Turn-key process with fast project turnaround time
- INCENTIVE•\$125,000 incentive funding per project/building (\$250K UEZ/OZ/
MUNI/K-12 Public Schools), or
 - \$250,000 per entity (\$500K ESIP; \$4M UEZ/OZ/ MUNI/K-12 Public Schools)





COMPREHENSIVE PROGRAMS

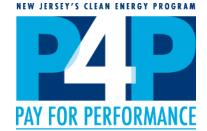
Facilities in Urban Enterprise Zones (UEZ), Opportunity Zones (OZ), municipalities, and K-12 public schools:

| INCENTIVE FUNDING | CUSTOMER |
|---|-----------------------|
| Up to 80% of installed cost is paid directly to the contractor | 20% of installed cost |
| All other eligible facilities: | |
| | CUSTOMER |
| Up to 70% of installed cost is paid directly to the contractor | 30% of installed cost |



Pay for Performance

COMPREHENSIVE PROGRAMS



- WHO Large C&I existing buildings or new construction seeking two or more energy efficiency measures with a minimum 15% savings
- SIZE TOAnnual peak demand 200+ kW in the previous year for existingQUALIFYbuildings or over 50,000 square feet of planned new construction
- ABOUT A pre-approved Participating Partner will streamline the program and guide users through the program phases
- INCENTIVE• 50% of project cost (or 80% for UEZ/OZ/ MUNI/K-12 Public
Schools) up to \$2M per project / \$4M per entity annually
 - Incentive payments #2 and #3 are increased for UEZ/OZ/ MUNI/K-12 Public Schools



ENERGY STAR



WHO

WHY

Compare your building to other similar buildings nationally

Commercial, Industrial, Agricultural, Government,

501(c)(3) Non-Profit, and Institutional Entities

- Suggestions for improving operations and maintenance
- Personalized incentive program eligibility and account manager follow-up support
- ENERGY STAR[®] Portfolio Manager account setup and score

Great opportunity to be a leader in benchmarking energy and water use, prior to the 2024 deadline.





Benchmarking

Local Government Energy Audit

NJCleanEnergy.com/LGEA

WHO Local Government, New Jersey Colleges and Universities, and 501(c)(3) Non-Profit buildings with an average yearly demand >200kW*

INCLUDES BENCHMARKING

MEASUREMENT &

AUDITS

COST Free

- Inventory of all energy-consuming equipment and line by line program eligibility, savings and costs
 - Comprehensive utility bill analysis
 - Facility benchmarking
 - Feasibility for solar and combined heat & power
- **INCENTIVE** •\$100,000 per entity (covers most small to large entities)
- CAP

WHY

- •\$300,000 per 501(c)(3) hospital
 - •\$300,000 per entity interested in ESIP



* Inquire about the waivers available to buildings ≤200kW average

FINANCING

Financing Mechanism: ESIP

ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP)

- Provides alternative financing for energy savings projects at public institutions
- Administered directly by the BPU
- Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract
- Requires NO new bonding and is outside of capital budget
- Does not count as debt or require voter approval



RESIDENTIAL PROGRAMS



Residential Portfolio of Programs

NJCleanEnergy.com/RESIDENTIAL

program^{*}

| HOME PERFORMANCE W/ ENERGY STAR® | WARMADVANTAGE & COOLADVANTAGE | ENERGY EFFICIENT PRODUCT REBATES | RESIDENTIAL NEW CONSTRUCTION | COMFORT PARTNERS |
|---|---|---|---|--|
| Whole-house and safety solutions for existing homes Air sealing, insulation, heating and cooling upgrades Up to a \$4,000 rebate + 0% financing up to \$10,000 or .99% up to \$15,000 | Stand-alone rebates for heating and cooling systems Furnaces, boilers, water heaters, central air conditioners, mini- splits, heat pumps, etc. | Includes ENERGY STAR® certified refrigerators, dryers, washers, air purifiers, dehumidifiers, room air conditioners, Refrigerator/Freez er Recycling and Lighting Discounts | Builders work with a rater to properly certify the homes to ENERGY STAR® certified or Zero Energy Ready Home levels | A FREE program including lighting upgrades, hot water conservation, replacement of fridges and thermostats, insulation upgrades and heating and cooling maintenance for income eligible families |
| New Jersey's | Some pr | ograms offer enhanced in located in an UE | | 69 |

What is Home Performance?

NJCleanEnergy.com/HP

- Provides whole-house energy assessments and comprehensive energy efficient upgrades <u>for existing</u> <u>homes</u>
- Addresses comfort, indoor air quality, health & safety, and energy usage problems
- The program uses specially trained/certified Building Performance Institute (BPI) GoldStar contractors





HOME PERFORMANCE

WITH ENERGY STAR®



Incentives

HOME PERFORMANCE WITH ENERGY STAR®

Incentives based on Total Energy Savings for singlefamily homes (1-4 units) & townhomes

\$2,000 up to \$4,000 cash incentive

Plus:

- 0% Interest loan up to \$10,000 or
- 0.99% interest loan up to \$15,000
- Up to \$1,000 Urban Enterprise Zone (UEZ) Bonus





Appliance Recycling

EE PRODUCT REBATES

- Recycling for old, inefficient refrigerators and freezers
- FREE pick-up and a \$50 rebate
- Room air conditioners and dehumidifiers can be recycled during the fridge/freezer pick-up appointment for an additional \$25 rebate each
- Approximately 95% of each appliance is recycled
- Schedule appointments online at NJCleanEnergy.com/RECYCLING





More Information

ARIF WELCHER

Government/Business Manager Arif.Welcher@bpu.nj.gov 609.292.0093

> VISIT NJCleanEnergy.com

NEWSLETTER

NJCleanEnergy.com/NEWSLETTER

LISTSERVS

NJCleanEnergy.com/LISTSERVS







THANK YOU



Speakers

Moderator: Mayor Vernon Marino, Woolwich Township

Matthew Blake, Director of Community Development, Woolwich Township Mark Niederman, Wycoff Green Team Janice Piccolo, Directory Community Services, Borough of Chatham Amanda Neshiewat, Environmental Director, Town of Secaucus Arif Welcher, Government and Business Manager, NJ Board of Public Utilities

