



Energy Efficiency Stakeholder Meeting

October 19, 2023

Agenda

1. Re-cap of Last Meeting
2. New Jersey Energy Efficiency Programs
3. Energy Efficiency Updates
 - NJCEP Updates
 - New Construction Program Update
 - Benchmarking Update
 - Utility Updates
 - Regulatory Updates
 - Triennium 2 Filing Extension for Utilities
 - Evaluation, Measurement, and Verification Updates
1. Guest Presentation: Comfort Partners Program
2. General Q&A
3. Items of Interest
4. Next Meetings



Recap of Last Month



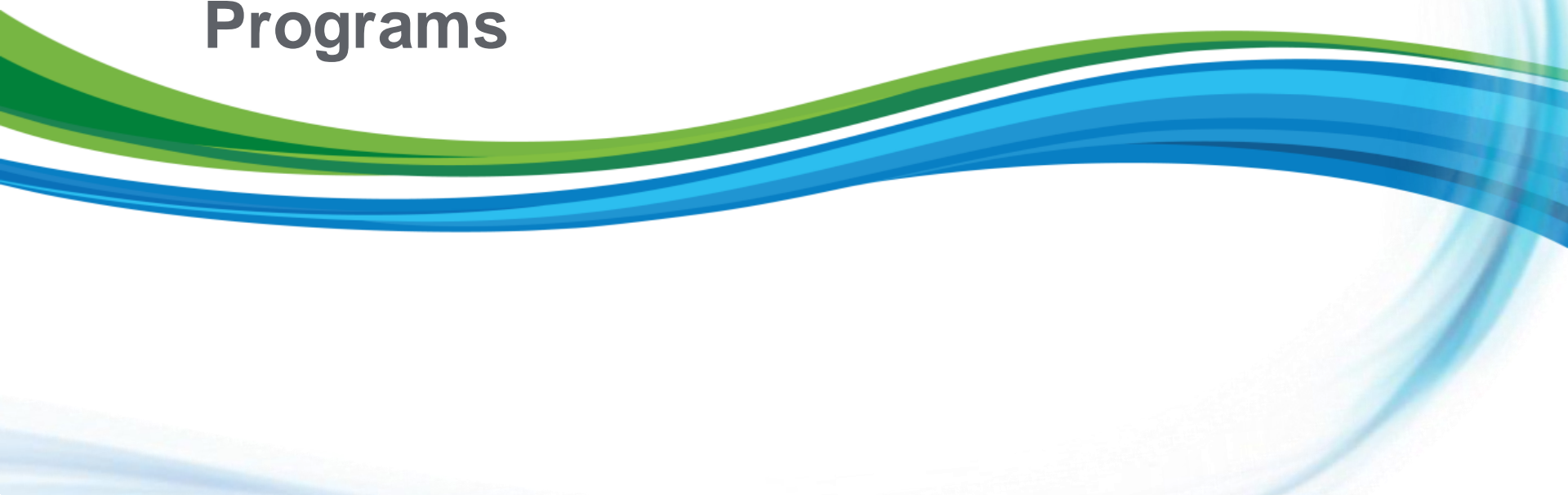
September Meeting Recap

What we covered:

- ✓ NJCEP and Utility Program Updates
 - ✓ NJCEP New Construction Program Update
 - ✓ Benchmarking Update
- ✓ Guest Presenter: Local Government Energy Audit (LGEA) Program
- ✓ Q&A



New Jersey Energy Efficiency Programs



New Jersey Energy Efficiency Programs

www.NJCleanEnergy.com/TRANSITION

NJBPU and NJCEP Administered Programs



- New Construction (residential, commercial, industrial, government)
 - Large Energy Users
 - Energy Savings Improvement Program (financing)
 - State Facilities Initiative*
 - Local Government Energy Audits
 - Combined Heat & Power & Fuel Cells
- *State facilities are also eligible for utility programs

Utility Administered Programs



- Existing buildings (residential, commercial, industrial, government)
- Efficient Products
 - Lighting & Marketplace
 - HVAC
 - Appliance Rebates
 - Appliance Recycling

NJBPU and Utility Co-Administered Programs



Energy Efficiency Program Information

www.NJCleanEnergy.com/TRANSITION


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RESIDENTIAL
COMMERCIAL, INDUSTRIAL AND LOCAL GOVERNMENT
RENEWABLE ENERGY

NEW JERSEY'S CLEAN ENERGY PROGRAM

ABOUT NJCEP

BOARD OF PUBLIC UTILITIES

POLICY UPDATES & REQUEST FOR COMMENTS

CALENDAR

CLEAN ENERGY STAKEHOLDER GROUPS - MEETINGS

GRANTS & SOLICITATIONS

TRAINING RESOURCES

PRESS ROOM

PUBLIC REPORTS AND LIBRARY

CONTACT US

New Jersey's Energy Efficiency Program Transition

Transición del Programa de Eficiencia Energética de Nueva Jersey

Electric Utility Contact Information

Utility Name	Commercial & Industrial Programs	Residential Programs
Public Service Electric & Gas	Website and Email Phone: 844-300-7734	Website and Email Phone: 855-846-2895
Atlantic City Electric	Website, Email and Phone: 833-223-7297	Website, Email and Phone: 866-353-0007
Jersey Central Power & Light	Website, Email and Phone: 800-662-3115	
Rockland Electric	Website, Email and Phone: 877-434-4100	

Gas Utility Contact Information

Utility Name	Commercial & Industrial Programs	Residential Programs
Public Service Electric & Gas	Website and Email Phone: 844-300-7734	Website and Email Phone: 855-846-2895
New Jersey Natural Gas	Website and Email Phone: 877-455-6564	Website and Email Phone: 877-455-6564
South Jersey Gas	Website and Phone: 888-263-7372	Website and Phone: 833-483-0691
Elizabethtown Gas	Website and Phone: 888-263-7372	Website and Phone: 833-483-0692

Check the GIS utility finder to determine who your provider or providers are.



Program Updates

- Energy Master Plan Update
- Solar Scam Warning
- School and Small Business Energy Efficiency Stimulus Program
- Energy Efficiency Program Transition

Program Literature

Program Literature

Applications and Brochures
Download the latest program materials.

Energy Master Plan

State of New Jersey
Energy Master Plan

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FREQUENTLY ASKED QUESTIONS

Frequently asked questions (FAQs) are grouped by the following subject areas; you can jump to any section by clicking on one of the topics below:

- General FAQs
- Commercial & Industrial Programs FAQs
- Residential Programs FAQs
- Contractor Specific FAQs
- Questions

General FAQs

Why are some energy efficiency programs now managed by the utility companies? (updated August 9, 2022)

The transition of the administration of certain energy efficiency programs from NJCEP to the utilities occurred in accordance with the mandates from the Clean Energy Act of 2018. These new programs allow the utilities to work directly with customers to achieve energy savings. The Board considered the following in establishing this transition:

- Programs that rely heavily on the use of contractors will be handled at the utility level, where the utility companies can build strong relationships and lead co-branded advertising and marketing efforts.
- Utilities will handle programs that rely on customer data or advanced metering infrastructure (AMI) to streamline customer data access layers and minimize the sharing of data to protect customer privacy.
- Utilities are well-suited to deliver certain energy efficiency programs, such as those that are based on existing customer relationships and that rely on utility data and systems.
- Utility administration works best for programs that can leverage utilities' knowledge of energy consumption, customer demographics, workforce infrastructure, and existing customer relationships within their service territories. Utility access – and increased customer access – to energy use data enables the design of more personalized services and programs, targeted outreach, and individualized solutions for customers.
- Utilities can offer flexible financing options, such as on-bill repayment.
- Customers may have more "brand awareness" and direct communication with their utility, which facilitates the broader adoption of energy efficiency measures.



Energy Efficiency Updates:

New Jersey's Clean Energy Program



More NJCEP Information

Clean Energy Program Filings:

www.NJCleanEnergy.com/FILINGS

Clean Energy Program Monthly Progress to Goal Report

www.NJCleanEnergy.com/EE - Meeting Materials Archive

The screenshot shows the NJCEP website interface. At the top, there is a navigation bar with links for Press Room, Library, FAQs, Calendar, Newsletters, Contact Us, and Site Map. Below this is a search bar. The main content area is titled "Energy Efficiency Meeting Materials Archive" and includes a "Select A Year to View:" dropdown menu set to 2023. A table lists meeting dates, agendas, and materials. On the right side, there are sections for "Program Updates" and "Program Literature".

Meeting Date	Meeting Agenda	Meeting Materials
July 20, 2023	Agenda	Slide Deck, Webinar Recording & PTO Report
June 15, 2023	Agenda	Slide Deck & Webinar Recording
May 18, 2023	Agenda	Slide Deck & Webinar Recording
Apr 20, 2023	Agenda	Slide Deck & Webinar Recording
Mar 16, 2023	Agenda	Slide Deck & Webinar Recording
Feb 16, 2023	Agenda	Slide Deck & Webinar Recording

New in FY24:

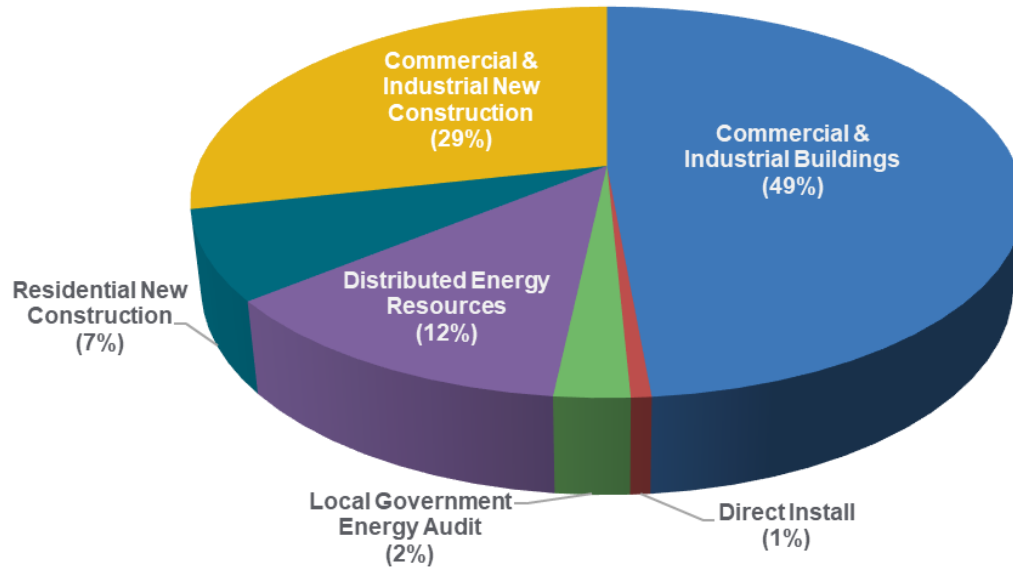
Progress to Goals Report is posted with post-EE Stakeholder Meeting resources after this meeting



Budget Break-down by Program

FY24 TRC Managed Programs

Incentive Budget: \$148,502,129



Energy Efficiency Programs FY24

NJCEP/TRC Managed

Closed

- Residential Products & HVAC
- Residential Existing Homes
- Direct Install

Closing Out

- C&I Buildings (existing buildings)
- SmartStart Retrofit
- Pay for Performance Existing Buildings
- School & Small Business Stimulus Program (federally funded)

NJCEP/TRC Managed

Open

- New Construction
Was: Residential New Construction, SmartStart New Construction, Pay for Performance New Construction, Customer Tailored Energy Efficiency Pilot New Construction
- Large Energy Users
- Local Government Energy Audit
- Distributed Energy Resources

BPU/Utility Managed

Comfort Partners



New Construction Program & Garden State Challenge Pilot Update

Next Steps

- Finalize program design with Board Staff
- Release for public comment as Compliance Filing update



Benchmarking Update

- Clean Energy Benchmarking Resources: <https://njcleanenergy.com/commercial-industrial/programs/cea-benchmarking>
- As of August 1st, utilities regulated by the BPU have implemented aggregated building-level data services
 - These utilities provide building owners their building energy and water data for reporting
 - For a list of utilities who provide data services: <https://njcleanenergy.com/commercial-industrial/programs/energy-water-benchmarking/utility-data>
- BPU is currently experiencing a high volume of inquiries
 - In process of onboarding a customer relationship management vendor for a dedicated help desk and assistance with inquiries
- The submission deadline is October 1, 2023
 - Building owners will have a 90-day grace period after the October 1st date to report



Energy Efficiency Updates:
New Jersey Utilities



Utility Updates

NJ Energy Efficiency Stakeholder Meeting

October 19, 2023



Updates

- **All utilities working to finalize their filings for the Second Triennium**
 - Filing are now due on December 1st
- **Joint Utility Contractor Calls**
 - Home Performance with ENERGY STAR contractor call- October 26th at 11 am
 - Residential HVAC contractor event- November 16th at 10 am
 - Contact any utility you are working with for call-in information if you haven't received an invite
- **PSE&G held its Fall Trade Ally Networking Event on October 19th (today)**
 - Event included TA's for HPwES, HVAC and Home Weatherization programs serving residential customers
 - Prospective trade allies should email: PSEGHomeEnergy@icf.com for future events and program updates
- **Rockland Electric held a Fall Trade Ally and Energy Efficiency Financing Event on 10/10**
 - Event included HVAC, HPwES, Home Weatherization, and Commercial contractors. Email Kyle Haddock at haddockk@oru.com to be added to our communication list for future residential and commercial trade ally events and program updates

Updates (cont.)

- **ACE Outreach Days**

- Energy Assistance Days – These events aim to unite community partners and agencies in order to assist income-eligible customers in managing their utility bills. The goal is to provide information about different energy assistance programs, such as Comfort Partners, Moderate Income Weatherization, and QHEC.
 - Oct 23 -Oceanside I Family Success Center
 - Oct 24 - Building Bridges Family Success Center
- Winslow Health Fair (October 28th) – opportunity to educate and enroll customers in our energy efficiency programs.
- Church of Incarnation Fall Fling (October 31st) – opportunity to educate and enroll customers in our energy efficiency programs.
- New Jersey League of Municipalities (November 14th – 16th) – A three-day event where ACE will showcase both Residential and Commercial/Industrial program offerings to local government officials and developers

- **NJNG Outreach events**

- Energy Assistance Days – Community focused events to help customers enroll in energy assistance programs and potentially sign up for Comfort Partners, Moderate Income Weatherization, or Quick Home Energy Checks ups. Will also promote our Workforce Development program. 23 events held in September and October. Remaining events
 - October 24th in Dover and October 25th in Howell. More information available at njng.com



Thank You



Energy Efficiency Updates:

Regulatory – State & Federal



Triennium 2: Filing Extension for Utilities

September 27, 2023:

- Board extended filing deadline from October 2 to December 1, 2023
- Board designated presiding commissioners for utility filings
- Motions to intervene or participate due by December 8, 2023; responses to such motions due by December 14, 2023



FY24 State Evaluation Studies Briefing

Statewide Evaluator Oversight Team (SWE)

Background on Evaluation / EM&V

Evaluation is the systematic collection and analysis of information to document the impacts of programs and recommend improvements in program design and delivery.

- ▶ Program Evaluation is conducted to:
 - ▶ Assess performance and guide improvements - process & impact aspects
 - ▶ Impact to examine attributable effects of program beyond natural markets / adoption
 - ▶ Provide updates for TRMs for improved planning (savings, factors/inputs, costs, algorithms, measures, baseline information...)
- ▶ Utilities & State have roles
 - ▶ Utility Evaluations: Evaluations of utility program / portfolio
 - ▶ State Evaluation Studies: Evaluation of State Programs & Statewide information for ALL utilities
- ▶ Wide range of types of studies (aggregated list)
 - ▶ Apply to sector and program EE portfolio
 - ▶ Some “adjacent” work sometimes added - (Avoided cost, metrics, etc.)
- ▶ Setting priorities: program size / phase, TRM gaps, etc.

BROAD EVALUATION TYPES

Process Evaluation

Impact Evaluation

*Technical Reference Manual (TRM)
New measures, savings, lifetimes
Updated factors, algorithms
Incremental Measure Cost (IMC)*

*Baseline / Attribution
Market & Baseline
Net-to-Gross (NTG)
Industry Standard Practice (ISP)
Auxiliary Effects: Non-energy
impacts (NEI/NEB) Equity*

(Savings) Potential studies

Other

Completed Evaluations - FY 2022-23

<i>UTILITY PROGRAM Process & Impact (Scores of studies)</i>	<i>Sector</i>
<i>Process - each utility / program</i>	<i>All</i>
<i>Impact - each utility / program</i>	<i>All</i>
<i>Net to Gross - most programs</i>	<i>All</i>

<i>STATE TRM</i>	<i>Sector</i>
<i>Comprehensive TRM</i>	<i>All</i>

<i>STATE Savings Potential</i>	<i>Sector</i>
<i>Goal-setting / Potential</i>	<i>All</i>
<i>Attribution of Savings from State Initiatives (WAP, 5160, Codes)</i>	<i>All</i>

<i>STATE Baseline & Attribution Studies</i>	<i>Sector</i>
<i>Comprehensive NTG</i>	<i>All</i>
<i>Lighting Baseline</i>	<i>Resi</i>
<i>Lighting Baseline</i>	<i>C&I</i>
<i>New Construction</i>	<i>All</i>
<i>ISP New Construction</i>	<i>All</i>

<i>STATE NEI, Equity, Other</i>	<i>Sector</i>
<i>NEI Statewide</i>	<i>All</i>
<i>IMC overview</i>	<i>All</i>
<i>Avoided Cost</i>	<i>All</i>
<i>Workforce, Phase 1</i>	<i>All</i>

List of FY 2024 Statewide & Utility Evaluation Studies Underway-Impact, Process, Baseline, NTG

UTILITY - Program Process & Impact (Scores of studies)	Sector	STATE - Baseline / Attribution	Sector
Process - each utility / program	All	Residential Appliance Saturation Survey (RASS)	Resi
Impact - each utility / program	All	C&I Baseline Study	C&I
Net to Gross - most programs	All	Industry Standard Practice (ISP New Construction)*	All
STATE - Program Process & Impact	Sector	NTG on Priority Measures*	All
Local Government Energy Audit Program Process Evaluation	C&I	Mid/Upstream NTG Methods	All
Large Energy Users Program Impact, Process & NTG	C&I		
New Construction Process Eval*	All		

*Study not yet underway

List of FY 2024 Statewide Evaluation Studies Underway - TRM, Costs, NEI, Equity/Other

STATE - TRM Studies	Sector
TRM Update - Priority Measures*	All
TRM Full Load Hours Study*	C&I

STATE Building Decarb / Electrification & 'Potential'	Sector
Heat Pump - Smaller scale	Resi & SmC&I
Heat Pump Water Heater/DHW	All
Heat Pump - Commercial scale	C&I

Incremental Measure Cost	Sector
IMC for Heat Pumps (HP)	All
IMC - Non-HP Measures	All

STATE - NEI / Equity/ Other	Sector
Non-energy impacts (NEIs) - Economics	All
Equity: In-depth Data, Status, Metrics	All
Equity Study & Workforce Studies	Both
Supporting DR, cost, emissions	Both

*Study not yet underway

Schedule / Updates

- ▶ Evaluation for Continual Improvement in Programs, Planning, Effectiveness, Cost-Effectiveness
 - ▶ Utility studies wrapping up; winter completion cycles for integration into TRM
 - ▶ Most state studies underway; numbers to update TRM
 - ▶ Process to assure all results are used (Evaluation Use Memos)
- ▶ Periodic Updates to this group on progress & key results
 - ▶ Updates on completed study results on a regular basis over the next few months
- ▶ Studies are on Clean Energy Website
 - ▶ Link: <https://www.njcleanenergy.com/library>
- ▶ Questions?



Guest Presentation:

Comfort Partners

Frank Vetri
Andrew Krigstein

Energy Efficiency Program Manager, Elizabethtown Gas
Associate Program Manager, PSE&G

New Jersey Comfort Partners

Program Overview
October 2023



Comfort Partners Program Background

- * The Comfort Partners Program is a component of New Jersey's Clean Energy Program, offering free energy-saving improvements and energy education to income-eligible families
- * Comfort Partners is managed by seven NJ based utilities including Public Service Electric & Gas, New Jersey Natural Gas, Jersey Central Power & Light, Atlantic City Electric, Elizabethtown Gas, Rockland Electric and South Jersey Gas
- * Since 2001, Comfort Partners has improved energy affordability for over 129,000 lower-income households who, by definition, spend a high percentage of their income on energy



Targeted Customers

- * Electric and natural gas customers who have a household income at or below 250% of the federal poverty guidelines
- * Customers currently enrolled in a qualifying assistance program:
 - * Temporary Assistance to Needy Families (TANF)
 - * Supplemental Security Income (SSI)
 - * Section 8 Housing Assistance
 - * SNAP
 - * General Assistance (GA)
- * Customers must reside in a 1–14-unit residential dwelling, use the household as their primary residence and have an electric or natural gas account in their name which is only for their unit and not shared with any other residence (separately metered).
 - * Customer can be the owner or renter

Income Guidelines

(250% of the Federal Poverty Guidelines)

Size of Family	Weekly Income	Monthly Income	Yearly Income
1	\$701	\$3,038	\$36,450
2	\$948	\$4,108	\$49,300
3	\$1,195	\$5,179	\$62,150
4	\$1,442	\$6,250	\$75,000
5	\$1,689	\$7,321	\$87,850
6	\$1,937	\$8,392	\$100,700
7	\$2,184	\$9,463	\$113,550
8	\$2,431	\$10,533	\$126,400

**For family units with more than 8 family members:
Add \$247 to the weekly income, \$1,071 to the monthly income,
or \$12,850 to the yearly income for each additional member.**

Program Objective

Comfort Partners' primary purpose is to promote energy affordability for income eligible households through energy conservation. This is accomplished by the direct installation of energy efficiency measures; personalized customer energy education, and the installation of health and safety measures, as appropriate.



Energy Efficiency Services

- * The measures installed in each home are assessed on a customer specific basis. These measures are guided by a seasonal allowance based on the customer's individual energy usage.
- * Measures include, but are not limited to:
 - * Efficient lighting products
 - * Replacement of inefficient refrigerators and freezers
 - * Energy saving thermostats
 - * Water conservation measures
 - * Water Heaters, showerheads and faucet aerators
 - * Blower-door guided air sealing; duct sealing and repair
 - * Weather-stripping
 - * Caulking
 - * Insulation upgrades
 - * Attic, wall, etc.
 - * Heating/cooling equipment repair and replacement
 - * Comprehensive, personalized energy education and counseling



Health & Safety Services

- * Comfort Partners has funded over \$130 million to address health & safety issues found in our customers' homes. We routinely save our customers from serious and potentially life-threatening health/safety issues. These measures include but are not limited to:
 - * Roof repair
 - * Sewer leak repair
 - * Venting gas & electric clothes dryers
 - * Remedying the cause of moisture problems:
 - * Reconnecting and/or clearing downspouts
 - * Venting bath fans to the outside
 - * Installing ground cover in crawlspace
 - * Mold remediation
 - * Damming of heat producing fixtures
 - * Covering of open junction boxes
 - * Removal of knob and tube wiring
 - * Gas leak testing / repair
 - * Combustion appliance testing / repair / replacement
 - * Installation of CO detectors
 - * Flue / chimney repair



Program Management

Comfort Partners is a statewide program administered by participating utility members of the Comfort Partners Working Group. The Working Group was established to take advantage of economies of scale and leverage the abilities of overlapping natural gas and electric service territories to enable income eligible utility customers in New Jersey to be served by one program in a consistent manner.



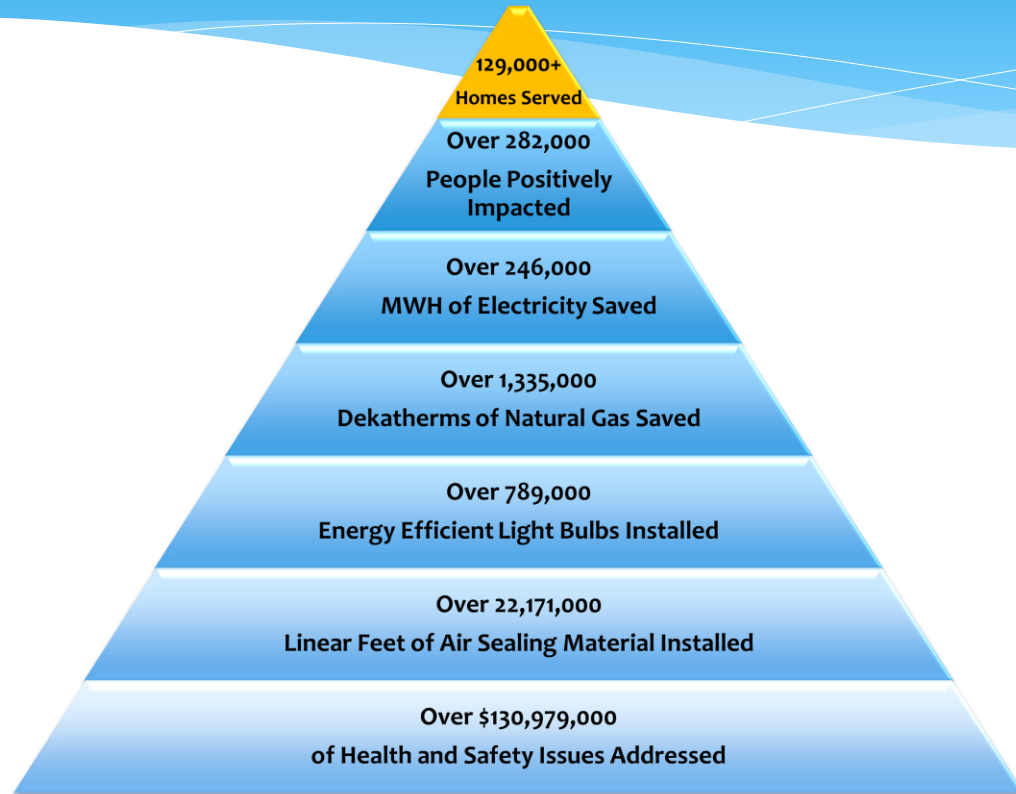
Program Delivery

- * Six Installation Contractors
 - * Manage marketing/outreach, enrollment, auditing, installation and customer service
- * One QA/QC Contractor
 - * Provides inspections, contractor trainings and program technical consultation
- * Program Evaluation Vendor
- * Partnerships
 - * Non-profit organizations and DCA WAP support CP program barrier removal efforts

Program Data

- * Web-based program management and tracking system
- * Contains information on customer demographics, household characteristics, job measures and costs, inspection results
 - * Reporting capabilities
- * Contractor/Utility invoicing system of record

Program Impact



Case Study

City: Newark, NJ

Problem:

- * Customer's home often required significant heating/cooling output and still did not maintain comfortable temperatures
 - * Resulting in high monthly utility bills
 - * Comfort and temperature issues were most problematic during winter months
 - * Customer would set thermostat as high as it could go to heat their home, and even then, was still uncomfortable
- * Customer knew they needed help, but did not know where to start

Case Study

- * Customer's chimney chase-way in the attic was open to the rest of the home. This is common in older homes, where the unconditioned attic air could infiltrate the living space through the gaps at the base shown below



Case Study

- * Chimney has since been dammed off with adequate clearance to prevent our newly added insulation from coming in contact with the chimney itself. The chimney chase-way has also been sealed with metal and high temperature caulk to stop air infiltration around the chimney from entering the home



Case Study



- * The attic had an inadequate amount of insulation
 - * For our climate zone, it is recommended to have an R-value of 38 in an attic
 - * The existing R-value of her insulation was barely R-11

Case Study

- * First, we removed the existing insulation to expose all attic floor penetrations, and sealed those penetrations with spray foam



Case Study

- * Second, we placed the existing insulation back, and then installed enough cellulose insulation to raise the attic R-value up to the appropriate R-38



Case Study

- * Since completion of the work:
 - * The customer has noticed an immediate improvement to their comfort
 - * They were excited to inform us that they no longer needed to turn their thermostat as high as it could go to keep themselves warm in their home
 - * They indicated that the reduction in their utility costs was very noticeable, and they could not believe what was achieved through Comfort Partners weatherization
 - * Their enthusiasm for the program has led to them referring friends and family to the program, who have since enrolled to receive services

General Q&A



To submit questions in advance for next month:
EnergyEfficiency@bpu.nj.gov

Items of Interest



Next Meetings



Energy Efficiency Stakeholder Meetings

NJCleanEnergy.com/StakeholderGroups/Energy-Efficiency

3rd Thursday of the Month, 1-2:30pm

(no November meeting)

December 21, 2023



More Information

VISIT

NJCleanEnergy.com

NJCleanEnergy.com/EE

CONTACT

EnergyEfficiency@bpu.nj.gov

866.NJ.SMART (657.6278)

EE LISTSERV

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THANK YOU

