

New Jersey Board of Public Utilities and its *Clean Energy Program*™

Residential Energy Efficiency Programs

New Jersey Board of Public Utilities



- State agency and regulatory authority created to ensure safe, adequate and reliable utility services at reasonable rates for New Jersey customers
- Regulates critical services, including natural gas, electricity, water, wastewater, telecommunications and cable television
- Has general oversight responsibility for monitoring utility service, responding to consumer complaints and investigating utility accidents

nj.gov/bpu

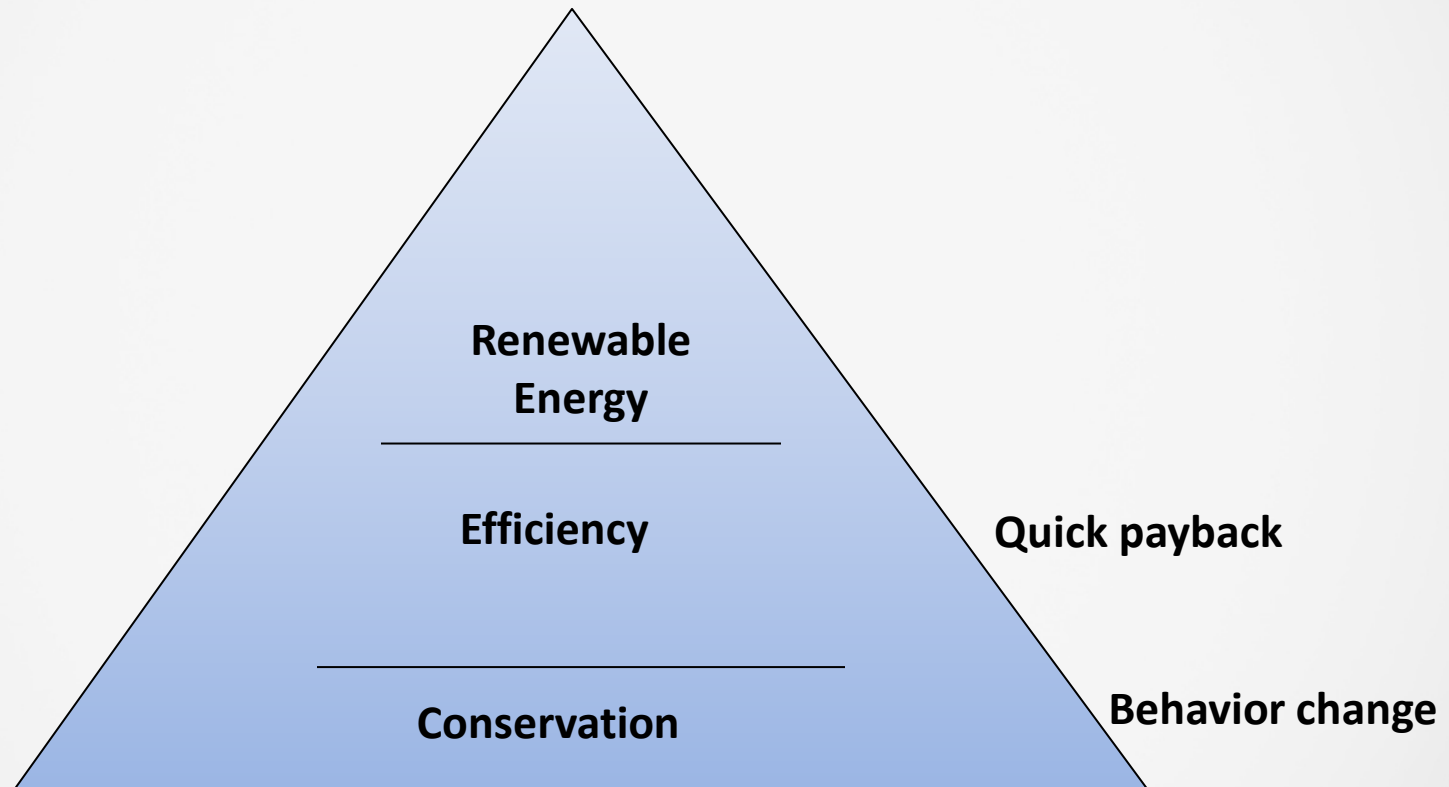
New Jersey's Clean Energy Program



- Statewide clean energy initiative, administered by the NJBPU
- Promotes energy efficiency & renewable sources of energy including solar, geothermal and sustainable biomass
- Results in a stronger economy, less pollution, lower costs and reduced demand for electricity
- Financial incentives, programs and services for residential, commercial and municipal customers

NJCleanEnergy.com

First Things First: Conservation and Efficiency





What is Home Performance with ENERGY STAR® (HPwES)?

- Whole-house solutions to help New Jersey residents save up to 30 percent on their energy costs and reduce their carbon footprint
- Specially trained and certified Building Performance Institute (BPI) GoldStar contractors assess homes of any style (including multi-family*), size or price range for energy efficiency and overall performance, and recommend improvements
- Financial incentives to homeowners offered

*Restrictions apply



What is the first step?

Schedule a Home Assessment/Audit

Your contractor will assess your home as a system looking to help you:

- Lower energy usage
- Improve comfort
- Ensure health & safety



Who Can Provide a Comprehensive Home Assessment?



Contractors who are both:

- Building Performance Institute (BPI) GoldStar designated
- Participating in the Home Performance with ENERGY STAR Program

For a list of HPwES participating contractors:

- Check our website: NJCleanEnergy.com/HP
- Call our toll free number: **866-NJSMART**

Your Home Assessment

- Combustion Appliance Testing
 - Diagnostic equipment is used to test the condition of your heating system, hot water heater and oven
 - Testing results determine opportunities for upgrades
- Visual inspection of the house
 - Air sealing opportunities
 - Insulation opportunities
 - Possible health and safety issues (moisture, asbestos)
- Optional blower door test



Home Performance Incentives

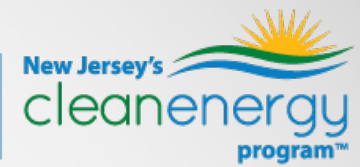
- Rebates are available for comprehensive work, such as installing:
 - Air sealing
 - Insulation
 - Heating/Cooling Equipment
 - Duct Sealing
- Incentives
 - Up to \$4,000 in incentives, plus 0% interest financing or repayment offering, when the project achieves 25% or greater total energy savings.
 - Incentives are available for oil, propane, and municipal electric customers while funding lasts.



Home Performance Incentives

Incentive Tier	Requirements	Customer Incentive
Tier 1	Home Assessment/Energy Audit: To be eligible for HPwES incentives, a homeowner must have a home assessment (audit) performed by a BPI Gold Star contractor .	None
Tier 2	Estimated total energy savings (TES) of at least 5% and less than 20% Must install air sealing May install insulation in at least one, open accessible area of the thermal boundary of the home. May also install duct sealing, duct insulation and water heater measures from the eligible measures list.	\$2,000 rebate , not to exceed 50% of the costs of the eligible measures used by your contractor to calculate TES and Up to a \$5,000 loan at 0% (7-year term) where a utility loan is unavailable
Tier 3	Level 1 - Estimated TES of at least 20% and less than 25%. Must install air sealing May install insulation in at least one, open accessible area of the thermal boundary of the home. May also install duct sealing, duct insulation and water heater measures from the eligible measures list	\$3,000 rebate , not to exceed 50% of the costs of the measures used to calculate TES and Up to a \$10,000 loan at 0% (7-year term) where a utility loan is unavailable or 4.99% loan (10-year term) up to \$15,000, where a utility loan is unavailable
Tier 3	Level 2 - Estimated TES of at least 25% or greater Must install air sealing May install insulation in at least one, open accessible area of the thermal boundary of the home. May also install duct sealing, duct insulation and water heater measures from the eligible measures list	\$4,000 rebate , not to exceed 50% of cost of the measures used to calculate TES and Up to a \$10,000 loan at 0% (7-year term) or 4.99% loan (10-year term) up to \$15,000, where a utility loan is unavailable

Residential New Construction



NJ *ENERGY*Efficient Home



- This is the first tier of the New Jersey ENERGY STAR Homes Program
- These homes are not ENERGY STAR qualified as supported by the EPA, but are more energy efficient than a traditionally built home
- They have greater durability and are more affordable
- Score of 65 or less on the Home Energy Rating System (HERS) Index
 - Multi-family buildings may have a score of 75 or less

What is an ENERGY STAR Home?

- Higher energy efficient performance and greater durability
- Score of 65 or less on the Home Energy Rating System (HERS) Index
 - Multi-family buildings may have a score of 75 or less
- Third-party verified
- Credible – government-backed label



NJ Zero Energy Ready Homes

- Third tier and the highest level of the program
- These homes have to achieve at least 50% of energy performance before installing on-site renewable energy
- These homes include renewable energy components, usually solar
- The result is net zero energy consumption



Eligibility

New and gut rehab residential construction, including:

- Custom homes
- Single-family production homes
- Townhouses
- Multi-family apartments
- Active adult single-family and low/mid-rise senior housing



Residential New Construction Features and Benefits

- Properly installed insulation system
- Tight construction
- Tight ducts
- Right-sized, high efficiency HVAC equipment
- Advanced windows
- Whole-house, controlled ventilation
- Inspections/testing

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- A quieter home
- Improved comfort
- Improved indoor air quality
- Higher quality components
- Less maintenance and increased durability
- Better workmanship/ quality assurance

Energy Efficient Products



Energy Efficient Products

- We promote the sale of ENERGY STAR qualified products in New Jersey, including clothes washers, clothes dryers, refrigerators, and energy efficient lighting
- ENERGY STAR certified appliances save energy and money
- NJ Clean Energy Program labels may be found in retailers throughout NJ
- We offer early retirement options for old, inefficient refrigerators and freezers



It's the bright thing to do

ENERGY STAR lighting (CFLs and LEDs)

- Saves \$30 to \$80 in electricity costs over their lifetime
- Last 10 to 25 times longer than incandescent bulbs
- Produce 70-90% less heat

Find discounted ENERGY STAR qualified light bulbs and fixtures at:
NJCleanEnergy.com/SHOPNOW or
visit NJCleanEnergy.com/LIGHTING
for a list of lighting retailers



ENERGY STAR Rebates

- \$50 or \$75 rebates on select ENERGY STAR certified clothes washers and refrigerators
- \$100 or \$300 rebates for ENERGY STAR certified dryers
- Ask retailers for more information or visit:
 - NJCleanEnergy.com/CLOTHESWASHERS
 - NJCleanEnergy.com/DRYERS
 - NJCleanEnergy.com/FRIDGEREBATE
- Eligible products lists are included on each page
- Visit NJCleanEnergy.com/FINDER
to see if the models you like qualify for rebates

You'd be amazed at what your old refrigerator can save!



- The Refrigerator/Freezer Recycle Program recycles working refrigerators and/or freezers
- Customers get a \$50 rebate
- Save up to \$150 a year on energy costs by recycling an old, inefficient fridge or freezer (must be between 10 and 30 cubic feet in size)



WARM & COOL Advantage Program



Available Incentives:

- Central Air Conditioners (Up to \$500)
- Heat pumps, ductless mini-split units (\$300)
- Geothermal Heat pumps (\$500)
- Gas and Oil Furnaces (\$250 or \$500)
- Gas and Oil Boilers (\$300)
- Gas water heaters (\$500)
- Combination Installation of qualifying Gas Furnace OR Boiler and qualifying Water Heater (\$900 or \$1,000 for a furnace with an AFUE of 97% or greater)
- Heat Pump Water Heater (\$500)
- Solar domestic water heaters (\$1200)

Renewable Energy Programs

- SREC Registration Program (SRP) is used to register the intent to install solar projects in NJ. Owners of projects **MUST** register their projects in the SRP prior to the start of construction in order to establish the project's eligibility to earn SRECs.
- Over 90% of New Jersey's installed solar capacity is from the SRP program (i.e., without rebates).
- Renewable Energy Incentive Program (REIP) includes incentives and facilitates Class I RECs for New Jersey customers investing in sustainable biomass technologies and incentives for energy storage for renewable electricity facilities connected to the distribution system serving New Jersey.

Comfort Partners



This free, energy saving and education program is geared to low-income homeowners who have an income at or below 225% of the federal poverty guidelines.

Eligible participants receive free installation by a Building Performance Institute (BPI) GoldStar contractor of the following (on a home specific basis):

- Energy efficient lighting
- Hot water conservation measures (water heater insulation, water heater pipe insulation and energy-saving showerheads and aerators)
- Replacement of inefficient refrigerators and thermostats
- Insulation upgrades (attic, wall, etc.)
- Blower-door guided air sealing, duct sealing and repair
- Heating/cooling equipment maintenance

- Homeowners also receive comprehensive, personalized energy counseling and education
- Anyone interested should contact their electric or gas utility company for more information

PSE&G: 888-773-8326

Jersey Central Power & Light: 800-207-9276

Atlantic City Electric: 888-773-8326

Elizabethtown Gas: 888-773-8326

NJ Natural Gas: 888-773-8326

South Jersey Gas: 888-773-8326

Comfort Partners Eligibility Chart

2015 Income Guidelines (225% of the Federal Poverty Guidelines)			
Size of Family	Weekly Income	Monthly Income	Yearly Income
1	\$509	\$2,207	\$26,483
2	\$689	\$2,987	\$35,843
3	\$869	\$3,767	\$45,203
4	\$1,049	\$4,547	\$54,563
5	\$1,229	\$5,327	\$63,923
6	\$1,409	\$6,107	\$73,283
7	\$1,589	\$6,887	\$82,643
8	\$1,769	\$7,667	\$92,003
For family units with more than 8 family members: Add \$180 to the weekly income, \$780 to the monthly income, or \$9,360 to the yearly income for each additional member.			

Case Study: South Plainfield New Jersey Resident



Comfort Partners Program

- Installed Measures
 - New furnace and programmable thermostat
 - Attic insulation, comprehensive air sealing
 - ENERGY STAR refrigerator and 19 CFLs
 - Weather-stripping, caulking & water heater wrap
- Health & Safety Measures Addressed
 - Roof repair, sealed chimney flue, CO detectors, dryer vent replacement
- Project Cost \$13,962
- Cost to Customer: \$0
- **Annual Energy Cost Savings \$1,358 reduces burden on USF**
- Payback Period – 10.28 years
- Comfort Partners has provided services to over 30,500 low-income customers in the past 4 years



Energy Saving Tips

- Regulate heating and cooling systems
- Set the temperature 8 degrees lower when you are asleep or away in the winter
- Set the temperature 7 degrees higher when you are away and 4 degrees higher when you are asleep in the summer
- Turn on the ceiling fan to improve airflow and create gentle breezes
- Turn fans and lights off when you're not in the room



Energy Saving Tips

Let the Heat In or Out

- Block out heat in the summer by keeping blinds or curtains closed during the day (especially on south-facing windows)
- Let the heat in on winter days by opening them



Energy Saving Tips

Use Less Hot Water

Fact: Water heating accounts for around 12% of a family's utility bill

- Lower water heater temperature from 150° to 120°
- Wash your clothes in cold water
- Take a short shower instead of a bath
- Install low-flow showerheads and faucets
- Fix leaks



Assistance Programs



Help Meet Your Energy Needs:

- State and Federal Programs
 - Winter Termination Program
 - Universal Service Fund (USF) Program
 - The Low Income Home Energy Assistance Program
 - Lifeline Program
 - Comfort Partners Program
 - Temporary Relief of Utility Expenses (TRUE)
 - New Jersey Statewide Heating Assistance and Referral Energy Service, Inc. (NJSHARES)

Call your utility company for more information.

Thank You



Thank You for your time
Visit NJCleanEnergy.com
Call 866-NJSMART

For the latest updates on program announcements or new incentives,
subscribe to the NJ Clean Energy Program E-Newsletter at:
NJCleanEnergy.com