



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

***New Jersey Association of Environmental Commissions
Webinar - August 11, 2009***

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Background of *New Jersey's Clean Energy Program*



- Funded since 2001 from “*Societal Benefits Charge*” on utility bill
- Provides opportunities for energy efficiency projects in three sectors:
 - Residential
 - Renewable (Solar, Wind, Biomass)
 - Commercial & Industrial
- New construction projects must be in State designated Smart Growth areas to be eligible for incentives, except for:
 - Local Government Owned Buildings, including Schools
 - Hospitals
 - Military Facilities



Residential Energy Efficiency Programs



Home Performance with ENERGY STAR®

- Save up to 30% on your energy costs with a Home Performance Assessment.
- BPI certified contractors perform a visual inspection, combustion appliance testing, and provide a detailed report recommending energy efficiency upgrades for \$125.
- Up to \$1,000 of free air sealing is available.
- Up to \$10,000 in incentives and \$10,000 in 0 interest financing
- Low interest loans and cash rebates are available to pay for additional work.

New Jersey ENERGY STAR Homes - 25% of the homes

- Two tiers - 15 and 35% more energy efficient than standard homes
- A New Jersey ENERGY STAR Home can help you save about \$200-\$400 a year on utility bills.
- About 25% of new homes in NJ are ENERGY STAR homes.

New Jersey Climate Choice Home Pilot

- Incorporate features of an ENERGY STAR home in addition to the benefits of solar energy.

The result is a “near-zero” energy use home.

Up to \$36,000 in incentives



Residential Energy Efficiency Programs



ENERGY STAR Qualified Product Rebates

- \$75 rebate on purchase of ENERGY STAR qualified clothes washers with a MEF* of 2.2 or higher
- \$25 rebate for ENERGY STAR qualified dehumidifiers
- \$20 seasonal rebate (May 14 through August 31) on ENERGY STAR qualified room air conditioners
- \$30 incentive to recycle your old working refrigerator or freezer
 - *MEF=Modified Energy Factor

COOLAdvantage and WARMAdvantage

- Receive up to \$150 back on central air conditioning equipment
- And up to \$400 back for heating equipment

Green New Jersey Resource Team

- 7 organizations distribute ENERGY STAR qualified lighting and information throughout the State.
- The organizations are EFI, GreenFaith, Green Market Fundraising, HelpLightNJ, MaxLite/Double D, Project Porchlight and TechniArt
- Visit NJCleanEnergy.com/shopnow to purchase ENERGY STAR qualified compact fluorescent light bulbs and fixtures.



Energy Efficiency vs. Renewable Energy



- Before considering solar or wind alternatives, take steps to reduce energy consumption in your buildings with measures that address...
- Building envelope – insulation, air sealing, windows
- Lighting and lighting controls
- Heating, ventilation, air conditioning, water heating
- Variable frequency drives and motors
- EE is delivered at \$0.03/Kwh or \$0.30/therm
- Solar is delivered at \$0.21/Kwh



New Clean Energy Funding



- Utility Energy Efficiency Economic Stimulus programs expanding the reach of the NJCEP programs
- RGGI funding
- Federal American Reinvestment and Recovery Act (ARRA) funding both for State Energy Plan, Energy Efficiency Conservation Block Grants and Energy Star Appliance rebates
- ARRA Weatherization DCA
- For you the customer on the Clean Energy website you should see one program regardless of who delivers the program



2009 Renewable Energy Incentives



- One program for market, administrative and technical service
 - CORE & SREC-only Pilot Programs ending
- Focus on wind and biopower development
- New incentive structure for solar
 - Residential solar incentives linked with efficiency
- Upstream market acceleration
- Project inspections at less than 100%



2009 Renewable Energy Programs



- *Renewable Energy Incentive Program (REIP)*
 - ≤ 10 kW residential solar projects up to \$1.75 per watt with *Home Performance with ENERGY STAR* audit
 - ≤ 50 kW commercial/municipal solar projects up to \$1.00 per watt
 - Wind rebates based on estimated energy production, from \$0.50 up to \$3.20
 - Small Wind Model Ordinance available
 - Sustainable biomass projects from \$0.15 up to \$4.00 per watt
- *SOLAR*
 - Moved from rebates to a SREC financing model
 - Utility solicitation for solar
 - Register non-rebated projects for SRECs on PJM-EIS GATS



Commercial & Industrial Programs



- NJ SmartStart Buildings
- Local Government Energy Audit
- TEACH (Teaching Energy Awareness with Children's Help)

New This Year...

- Pay for Performance (includes Combined Heat & Power)
- Direct Install



TEACH



Teaching Energy Awareness with Children's Help provides energy efficiency education for students and facility benchmarking for administrators...

- Curricula for use in the Classroom
- Do-it-yourself Instructional Projects for Students
- Teacher Training
- Energy Benchmarking Analysis and Report
- Currently have 6-9 districts and 100 schools in the pilot and we are opening this up to more schools and more competitive solicitation this year



NJ SmartStart Buildings Program



Eligibility

- New Construction, Renovation, and Equipment Replacement
- Commercial & Industrial Customers Served by a Public Utility
- Municipalities and Government-Owned Facilities

Features

- Financial Incentives to Reduce Capital Cost (Prescriptive and Performance)
- Comprehensive Design Support for Larger Projects ($\geq 50,000$ sq. ft.)
- Technical Assistance for Other Projects (Walk-through analysis)
- Up to \$500,000 per utility account per calendar year



Local Government Energy Audit Program



- Eligible facilities include town halls, courtrooms, police & fire stations, offices, sanitation or transportation structures, schools, community centers, and any other local government owned buildings
- Five pre-qualified, pre-selected energy auditing firms procured on state contract
- 75% of audit cost paid after completion of audit
- Remaining 25% paid if net cost of installed measures exceeds remaining cost of audit
- Tiered incentive up to \$300,000 annual incentive cap based on sq footage of total building in LG
- Participants must pass one resolution enabling application submittal
- Typical timeframe 8 weeks to complete report once the energy auditor hired – may take 8 weeks to hire auditor shorter if data available



Pay for Performance



The greater the savings, the greater the incentives...

- Buildings over 200 kW Average Annual Peak
- Relies on a Network of Trained Program Partners
- Whole-Building Approach – Minimum 15% Performance Threshold
- Incentives up to \$1 Million/Meter – Natural Gas and Electricity
- Additional Incentive up to \$1 Million for Combined Heat & Power
- Staged Incentives
- **MOST municipalities not in this program**



Direct Install Program



Expected Launch August

- Small and Medium-Sized Businesses and Government-Owned Facilities with ≤ 200 kW Peak Load
- Region-Specific Contractor Network Provides Recommendations and Installation
- 80% of Material and Labor Costs Paid Directly to Contractor
- Facility Owner Pays Remaining 20%
- No Cap on Measure Installations (as long as measures hit savings criteria)



ALMOST ALL municipalities in this category



Community Partners



- Working with NJ League of Municipalities Sustainable Jersey Initiative
 - Communities earn points and incentives for sustainable actions:
 - Participate in efficiency and renewable programs
 - Bring residents and businesses to programs
- Coordinating with Green NJ Resource Team activities



Community Incentives



- Financial Incentives
 - Incentives for Task Completion
 - Up to \$4,000 per Municipality
- Support and Outreach
 - Program Manager
 - Outreach Coordinator
 - Administrative Support
- Training & Information Sharing
 - Local Green Team Support
 - GNJRT Opportunities
 - NJCE Program



Community Partners Initiative



| NJCEP Program | Community Participation | Community Incentive |
|--------------------------------------|---|---------------------|
| Green New Jersey Resource Team Event | 1 Event Completed | \$200.00 |
| ENERGY STAR Products | 50 Online Applications Referred | \$300.00 |
| WARM & COOL Advantage | 50 Applications Referred | \$200.00 |
| Home Performance with ENERGY STAR | 100 Audits Referred | \$800.00 |
| CleanPower Choice | 3% of Residences Referred | \$400.00 |
| Large Appliance Early Retirement | 20 Units Referred | \$300.00 |
| NJ Energy Star Climate Choice House | One Building Permit Issued | \$1,000.00 |
| Renewable Energy Investment Program | Wind Ordinance Passed or Other Applicable Renewable Project | \$500.00 |
| NJ ENERGY STAR Homes | 10 Units Referred | \$300.00 |



Approved June 2009



Your Power to Save

njcleanenergy.com

New Jersey Board of Public Utilities

ARRA -EECBG



- 65 direct recipients for \$61,000,000
- \$4,100,000 for EE and RE state buildings
- \$10,200,000 for remaining 512 municipalities
- Each town will get a rebate for \$20,000 at first
- Must come through the LGEAP (or energy audits)
- Must use NJCEP incentives for EE upgrades





For more information on how to save energy, money, and the environment visit www.NJCleanEnergy.com or call 1-866-NJSMART (866-657-6278)

Thank you for your time!

