

NEW JERSEY



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New Jersey's Clean Energy Program in conjunction with the State Energy Program is a statewide Program administered by the New Jersey Board of Public Utilities (NJBPU) that promotes and deploys energy efficiency and renewable energy programs for all New Jersey ratepayers – including residences, businesses, schools and municipalities. For more information on New Jersey's Clean Energy programs, go to www.bpu.state.nj.us and click on New Jersey's Clean Energy Program.

	Program Cost	Avg. Cost of Annual Savings	Cumulative Life Energy Savings (2001 – 2005)	Cumulative Life Bill Reduction
Electric	\$98,280,000	\$0.024	15,676,608,000 (kWh)	\$1,567,660,800
Gas	\$26,312,000	\$0.220	389,438,130 (therms)	\$389,438,130

In addition to the above, New Jersey's Clean Energy Program has helped to install over 36 MW of solar in New Jersey during the last 5 years. From 9 projects of 6 kW in 2001 to over 1,000 projects of 19 MW in 2006. We have had more than triple digit growth in our solar program for each of the last 4 years. The main reason for this is our integrated approach of rebates, net metering up to 2 MW, standardized interconnection to reduce barriers, a Renewable Energy Portfolio Standards for solar set aside of 2% by 2020 (1,500 MW) and a Solar Renewable Energy Certificate (SREC) trading system. The establishment of the SREC trading platform that NJBPU manages has enabled the program to reduce the simple payback for solar systems to 10 years on average. This program is so successful that the NJBPU is evaluating a transition from rebates to financing the full solar system through SRECs.

Two NJBPU Office of Clean Energy success stories from SEP funding: Because of New Jersey's Clean Energy Program to advance and promote the implementation of Energy Efficiency for both electric and natural gas and renewable energy, the majority of the SEP funds are used to promote and advance renewable fuels and the development of renewable fuels infrastructure.

Wireless Energy Management Demonstration Project

The purpose and intent of this project was to demonstrate a wireless energy management system (EMS) capable of providing low cost retrofits in existing facilities. The use of direct digital control (DDC) to manage the multiple components of a building is one of the most effective means of reducing energy use, preserving indoor air quality and reducing the environmental impact of buildings and structures. The largest barrier to retrofitting older buildings with state of the art DDC is the high cost of running wiring and controls to all of the components in a heating ventilation and air-conditioning (HVAC) system. This is particularly difficult in older buildings and large multi tenant or leased buildings.

The Annual Energy Savings \$92,000 (cost \$49,800) is based on the metered energy use which is one of the important capabilities of this system. The strategies which achieved this savings were Fresh Air Control with CO2 monitoring, Hot water Heater Control, Temperature monitoring and control.

The wireless EMS has demonstrated that it can achieve an enhanced level of building control and that the payback for this is on the order of 6.5 months.

Alternative Fuel Vehicle Rebate Program

The NJBPU, Office of Clean Energy, has been working with local governments, state colleges and universities, school districts and governmental authorities. The AFV Rebate Program provides rebates for the incremental cost of purchasing an alternative fuel vehicle or a hybrid-electric vehicle, in lieu of a similar gasoline or diesel-powered vehicle.

Bioheat Rebate Program

The NJBPU, Office of Clean Energy, has been working with the Port Authority of New York and New Jersey's (PANY NJ's) Green Practices Task Force for several years, to develop a program to introduce the use of alternative fuels to tenants at Port Newark and Port Elizabeth. The Bioheat Rebate Program for Tenants of the Port Authority of New York and New Jersey is a pilot project administered by the Office of Clean Energy and funded by \$200,000 in State Energy Program funding provided by the U.S. Department of Energy. The Bioheat Rebate Program is designed to introduce the use of heating oil with a renewable component to PANYNJ tenants at Port Newark and Port Elizabeth. The program will provide assistance with the incremental fuel costs associated with using Bioheat, in lieu of standard heating oil, in boilers and furnaces.

The Bioheat Rebate Program is modeled on New Jersey's successful Biodiesel Fuel Rebate Program, which provides funding to local government entities throughout the State for the incremental costs of using bio-diesel fuel, in lieu of 100% diesel fuel, in their diesel vehicles and equipment.

Bio-diesel fuel Rebate Program

The NJBPU, Office of Clean Energy, have continued the State's bio-diesel Fuel Rebate Program for local governments, state colleges and universities, school districts and governmental authorities. The Bio-diesel Fuel Rebate Program provides rebates for the incremental cost of using bio-diesel, in lieu of 100% petroleum diesel fuel.