

Performance Metrics 2015



NYSERDA

INCREASING
ENERGY
EFFICIENCY

CREATING A
CLEAN ENERGY
ECONOMY

GROWING
RENEWABLE,
DIVERSE ENERGY
SUPPLIES

PROTECTING
THE
ENVIRONMENT

Innovative Solutions for New York State's Energy Future

The New York State Energy Research and Development Authority (NYSERDA) offers objective information and analysis, innovative programs, technical expertise, and support to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce reliance on fossil fuels. NYSERDA professionals work to protect the environment and create clean energy jobs. A public benefit corporation, NYSERDA has been developing partnerships to advance innovative energy solutions in New York since 1975.

NYSERDA provides resources, expertise, and objective information so New Yorkers can make confident, informed energy decisions.

INCREASING ENERGY EFFICIENCY

OUR SERVICES:

- Reduce energy costs and reduce energy waste for New Yorkers by supporting businesses and residents in energy efficiency improvements while promoting a cleaner, more energy diverse, and sustainable future.
- Promote and support the use of innovative energy-saving technologies and systems for the benefit of New York's economy and environment.
- Provide credible, unbiased energy information to the public, businesses, and energy decision makers.

OUR RESULTS:

- Since 2008, NYSERDA has achieved more than \$9.1 billion in cumulative energy bill savings through the System Benefits Charge (SBC) and Energy Efficiency Portfolio Standard (EEPS) programs. For every \$1 in energy efficiency funds spent by NYSERDA, \$3.4 in energy bill savings were realized as a result of the energy efficiency improvements installed by customers participating in NYSERDA energy efficiency programs.
- Since 2008, NYSERDA-administered energy efficiency programs saved enough electricity to power more than 1 million homes each year (i.e., 7,378 annual GWh) and enough natural gas, propane, oil, and other heating fuels to heat 129,000 homes each year (i.e., 13.8 million annual MMBtu.)
- Since 2008, more than 724,000 households and 35,000 commercial, industrial, and institutional customers have reduced their energy use and annual energy bills by participating in NYSERDA programs.

CREATING A CLEAN ENERGY ECONOMY

OUR SERVICES:

- Foster and grow clean energy businesses in New York by providing technical expertise and support to assist developers of new clean energy technologies and products.
- Improve business environment and create jobs in New York.
- Advance emerging technologies and promote market acceptance of new technologies.
- Offer incubator environments across the State for companies pursuing new technologies.
- Provide workforce development, training, and education programs to prepare New Yorkers for green careers and a clean energy future.

OUR RESULTS:

- As a result of NYSERDA's technology and business development investments, more than 376 new and improved clean energy products are in the market, in all end-use energy sectors from high efficiency furnaces to advanced lighting controls and hybrid electric buses.
- For every dollar invested by NYSERDA in energy product development, New York realized approximately \$8 in statewide economic and environmental benefits, including the creation of more than 540 net additional jobs in 2014.
- NYSERDA's incubator program, which supports six cleantech incubators, has assisted 141 clients and helped these startups raise \$215 million in private funds while bringing dozens of new products to market and, from 2004-2014, creating 980 new jobs.
- More than 53,700 classroom participants received training through NYSERDA's clean energy workforce development programs.

GROWING RENEWABLE, DIVERSE ENERGY SUPPLIES

OUR SERVICES:

- Implement New York's \$1 billion NY-Sun initiative to increase solar energy in the State and move the State closer to having a sustainable, self-sufficient solar industry.
- Foster renewable energy business development in New York through public-private partnerships with renewable energy companies.
- Support innovative renewable energy technology development and environmental research.

OUR RESULTS:

- NYSERDA programs are transforming the market for renewable technologies in New York.
- From 2012 to 2015, solar capacity in New York increased by 575%.
- Since 2005, NYSERDA installed renewable generation at more than 27,900 locations across the State, primarily under the Renewable Portfolio Standard Program:
 - NYSERDA helped to develop 68 large-scale renewable generation projects representing more than 2,137 MW of renewable generation capacity; 59 facilities are operating and producing enough electricity to power 643,000 homes. The remainder of the projects are under design and construction.
 - NYSERDA supported customer-sited distributed renewable generation projects including solar electric, anaerobic digesters, small wind, and fuel cells.
- NYSERDA's Combined Heat and Power (CHP) programs have led to the installation of 230 MW of distributed generation at 151 sites across the State. Another approximately 47 MW of projects are under design and construction.

PROTECTING THE ENVIRONMENT

OUR SERVICES:

- Support environmental research to collect information on the impacts of various energy technologies and systems.
- Inform statewide energy-related environmental decision making and protection with science-based studies.
- Assist in the reduction of pollutant emissions through new technologies and energy efficiency and renewable energy programs.
- Monitor and maintain the legacy low-level radioactive waste disposal facility at the Western New York Nuclear Service Center to minimize environmental impacts.

OUR RESULTS:

- NYSERDA's energy efficiency and renewable energy programs reduce the need for fossil fuel production of electricity and avoid associated emissions. This equates to eliminating more than 4,600 annual tons of NO_x, 4,700 annual tons of SO₂, and more than 4.1 million annual tons of CO₂ into New York's air — equivalent to removing 867,000 cars from New York's roads.
- NYSERDA's environmental research supports mercury pollution control and acid rain policy, as well as the design of the CO₂ emission allowance auction platform.
- NYSERDA's extensive maintenance and monitoring programs ensure the radioactive waste is safely contained at the Western New York Nuclear Service Center, protecting public health and the environment.

PLANNING AND POLICY ACTIVITIES

In addition to the programs and services above, NYSERDA supports a range of energy analysis, policy, and planning activities, including:

- Offering objective analysis of energy options for a sustainable, prosperous New York.
- Offering policy recommendations to guide New York in reliably meeting its growing energy needs in a cost-effective and sustainable manner while fostering an innovative clean energy economy.
- Providing experienced leadership, technical credibility, and a breadth of energy and environmental knowledge to State energy planning efforts to create an energy roadmap for New York.
- Maintaining resources and expertise to flexibly and responsively provide the variety of information, analysis, and services that are needed by decision makers in a changing and growing clean energy economy.
- Serving as the energy data clearinghouse for energy price, supply, and use, to best assure energy systems operations and provide policymakers with essential information.

VISIT NYSERDA.NY.GOV OR CALL 1-866-NYSERDA

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