

NYSERDA is helping New Yorkers save money, use renewable energy, increase energy efficiency, and reduce their reliance on fossil fuels.

Here's what we've been doing and how well we've done.

performance metrics through 2019

NYSERDA is supporting New York State's nation-leading clean energy goals and building a clean, resilient, and affordable energy system for all New Yorkers.

70%
Electricity
will come from renewable
energy sources by 2030

100%
Carbon-Free
electricity by 2040

85%
Reduction
in GHG emissions from
1990 levels by 2050



NEW YORK
STATE OF
OPPORTUNITY.

NYSERDA



Increasing Energy Efficiency

each year
enough electricity is saved to power

1.32 million homes

930,000 households

have reduced their energy use
and energy bills



What we're doing:

Helping businesses and residents make energy efficiency improvements that reduce energy costs, energy waste, and greenhouse gas

Supporting the use of innovative energy-saving technologies that improve our State's economy and are environmentally friendly

Providing information that is credible and unbiased to ensure New Yorkers can make confident, informed energy decisions



How we've done so far:

Since 1998, NYSERDA programs have saved enough electricity to power 1.32 million homes each year, and enough natural gas, propane, oil, and other heating fuels to heat more than 311,000 homes each year.

Since 1998, More than 930,000 households and 40,100 commercial, industrial, and institutional customers reduced their energy use and annual energy bills by participating in NYSERDA programs.*

**Through System Benefits Charge, Energy Efficiency Portfolio Standard, and Clean Energy Fund programs.*



Creating a Clean Energy Economy



What we're doing:

Providing technical expertise and support to developers of new clean energy technologies and products to foster and grow clean energy businesses in New York

Helping create new jobs by creating the ecosystem for clean energy businesses to grow

Promoting statewide acceptance of new technologies so emerging technologies can advance

Offering incubator environments across the State for companies pursuing new technologies

Providing workforce development, training, and educational programs to prepare New Yorkers for clean energy careers



How we've done so far:

Our technology and business investments have helped make more than 526 new and improved clean energy products available to the public, including 59 new products added in 2019 that included high-efficiency furnaces, advanced lighting controls, and hybrid electric buses.

Our incubator program, which supports six cleantech incubators across the State, assisted 284 startups, helping them raise more than \$472 million in private capital and almost \$108 million in non-NYSERDA grant funding. This generated and retained 1,910 jobs and made dozens of new clean energy and clean technology products widely available.

more than 526

new and improved clean energy
products commercially available

284 startups

\$472 million in private capital

\$108 million in grant funding

1,910 jobs generated



Growing Renewable, Diverse Energy Supplies

nearly 2,000%
increase in solar across New York

~100,000 locations
installed renewable energy generation

116 large-scale projects developed
46 operating and creating enough power for
370,000+ homes



What we're doing:

Carrying out New York's \$1 billion NY-Sun initiative to help make solar available to all New Yorkers and create a self-sufficient solar industry

Creating public-private partnerships with renewable energy companies to help foster renewable energy business development

Supporting renewable energy technology development



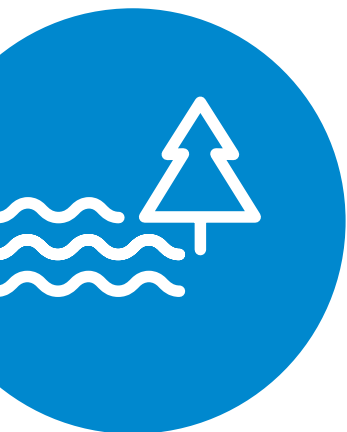
How we've done so far:

Our programs are transforming the renewable technology market. From 2011 to 2019, solar in New York increased nearly 2,000%

Through 2019, we funded the installation of renewable generation — primarily solar — at almost 100,000 locations across the State.

> We've helped develop 116 large-scale renewable generation projects with an electric capacity of 5,243 MW. Of these, 46 are operating right now and producing enough electricity to power more than 370,000 homes. The remainder are under design and operation.

> We've empowered New Yorkers to install onsite renewable energy generation like solar, wind turbines, anaerobic digesters, and fuel cells.



Protecting the Environment

8.4 million
tons of CO₂ eliminated
from New York's air annually

equal to taking **1.77 million**
cars off New York roads



What we're doing:

We support environmental research that collects information on the impacts of various energy technologies and systems

Our science-based studies help to inform energy-related environmental decision making and protection in New York

Our programs that support energy efficiency and renewable energy technologies help reduce emissions that harm our environment

We monitor and maintain the legacy low-level radioactive waste disposal facility at the Western New York Nuclear Service Center to minimize environmental impacts



How we've done so far:

Our energy efficiency and renewable energy programs reduced the need for electricity produced with fossil fuel which avoided associated polluting emissions. Through 2019, this equated to eliminating almost 8.4 million tons of CO₂ from New York's air — equivalent to removing 1.77 million cars from New York's roads.

Our environmental research has informed mercury pollution control and acid rain policies as well as the design of the CO₂ emission allowance auction platform, also known as the Regional Greenhouse Gas Initiative or RGGI.

Our extensive maintenance and monitoring systems at the Western New York Nuclear Service Center ensure radioactive waste is safely contained and the public's health and our environment stay safe.



Planning and Policy Activities

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

- We offer objective analysis of energy options for a sustainable, prosperous New York.
- We provide cost-effective and sustainable policy recommendations to guide New York in reliably meeting its growing energy needs and fostering an innovative clean energy economy.
- We provide 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.
- We serve as the energy data clearinghouse for energy price, supply, and use, to best assure energy systems operations.

nyserdera.ny.gov

1-866-NYSERDA



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.



NYSERDA