

Reducing Industrial Energy Intensity in the State of New York

Recognizing the potential for increased energy and cost savings, the New York Public Service Commission enacted an Energy Efficiency Portfolio Standard (EEPS) to help the state reduce electricity and natural gas consumption by 15% by 2015 through its Industrial and Process Efficiency Program. This would translate to an industrial energy reduction of 6.4 trillion Btu and an annual carbon dioxide reduction of 0.51 million metric tons by 2015.

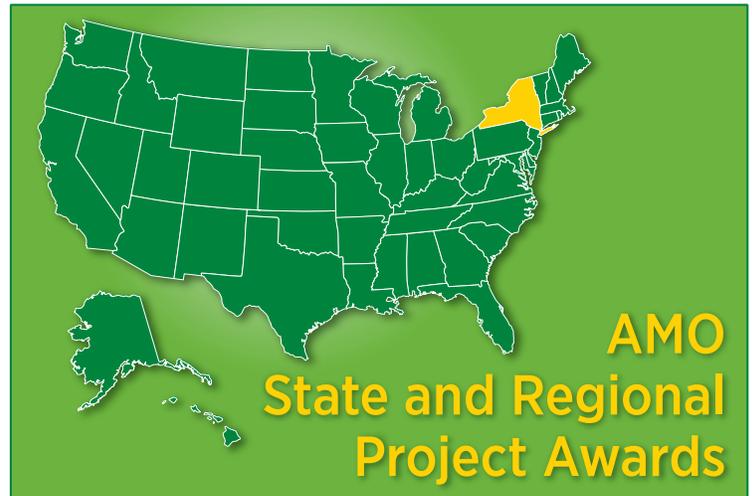
In support of these goals, the New York State Energy Research and Development Authority (NYSERDA) is developing energy efficiency programs to help the state achieve compliance with EEPS. NYSERDA is partnering with consultants, universities, and manufacturing associations to benchmark industrial energy and carbon intensity in New York, establish a partnership network, and help finance feasibility studies and industrial system improvements. The team focuses on upstate New York, which has the heaviest concentration of industry in the state.

Progress and Milestones

Activity Description	Goal	Completed to Date
Assessments	45	29
Identified Energy Savings (Trillion Btu)	-	88,900,000 kWh elec. and 276,000 million Btu gas
Implemented Energy Savings (Trillion Btu)	6.4 Trillion Btu	9,900,000 kWh elec. and 86,000 million Btu gas
Trainings	-	-
Individuals Trained	-	-
Pilots / Demonstrations	-	-
Plants Impacted	-	-

(As of June 2011)

To understand the energy intensity of the region and begin forming strategic partnerships, the NYSERDA team completed a benchmarking report to characterize New York's manufacturing industries to determine the most energy- and carbon dioxide-intensive sectors. In the report, the energy intensity and carbon footprint for each industrial sector (determined by NAICS code) was estimated, and six target industries were identified as the most energy intensive:



Project Description

Funding Amount: \$900,000

Funding Source: U.S. Department of Energy, Advanced Manufacturing Office

Program Period: 7/1/2010 to 10/31/2012

Project Success Highlights

- Completed a benchmark report to characterize New York manufacturing industries to determine the most energy and carbon dioxide intensive sectors.
- Compiled a directory of process consultants with special knowledge of technologies and processes used by the most energy intensive industries. Carried out extremely productive marketing and outreach efforts. Through these meetings, 71 industrial energy efficiency projects have been identified, with the potential to achieve more than 88,000,000 kWh in electricity savings and 276,000 million Btu in gas savings.

Primary Investigator

New York State Energy Research and Development Authority, Albany, NY

Project Partners

ANTARES Group, Landover, MD

Manufacturing Association of Central New York, Syracuse, NY

Multiple Intervenors, Albany, NY

State University of New York, College of Environmental Science and Forestry, Syracuse, NY

Syracuse University, Syracuse Center of Excellence in Environmental and Energy Systems, Syracuse, NY

Benefits

- Helping industry in New York substantially reduce energy intensity and consumption by 2015 to comply with the state's EEPS goal.
- Achieving electric energy reduction of 84,000 MWh over the project period.
- Achieving energy cost savings for large manufacturers in New York of more than \$11 million annually.

- Chemicals (325)
- Computers & electronics (334)
- Food (311)
- Nonmetallic minerals (327)
- Paper (322)
- Primary metals (331)

The NYSERDA team utilized the report to create a list of the top 60 companies to target for outreach and assistance in these energy intensive industries.

Another accomplishment for NYSERDA and subcontractor ANTARES Group is the year one final report, *Identifying Process Consultants for New York State's Industrial Sector*. This report identifies industrial process consultants for the six most energy-intensive manufacturing industry subsectors in New York. These process consultants are organizations or individuals, such as Six Sigma and Lean Manufacturing consultants, that work with industrial clients to reduce energy consumption per unit of product manufactured. This list of consultants will be used to assist NYSERDA in connecting manufacturers with process efficiency experts. Interactions with process consultants and manufacturers will allow NYSERDA to promote its energy efficiency programs and increase recruitment of manufacturers in the target industries. In turn, this will help NYSERDA achieve the state's energy consumption reduction goals.

For Additional Information:

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Applications in Our Nation's Industry

This project will establish a partnership among consultants, academia, and industry associations that will continue to help reduce the energy intensity of industrial manufacturers in the state. The New York industrial energy efficiency program will reduce industrial energy intensity and associated carbon emissions.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.