

Corning Diesel plant manufactures real results with On-site Energy Manager

Case Study

Company Name:
Corning Incorporated

Business Type:
Materials Science

Location:
Corning, NY



Overview

For more than 165 years, Corning Incorporated has applied its unparalleled expertise in materials science to develop products that transform industries and enhance people's lives. Since 2014, Corning has been recognized by the U.S. Environmental Protection Agency with the ENERGY STAR® Partner of the Year award. The company was awarded ENERGY STAR Partner of the Year, Sustained Excellence for three consecutive years from 2016 to 2018. With its strong commitment to global energy management, but a lack of staff resources at the site level, Corning was perfectly poised to work with the New York State Energy Research and Development Authority (NYSERDA) through the On-site Energy Manager (OsEM) program.

Initiating the Plan

The OsEM Program seeks to demonstrate the value of an OsEM in commercial and industrial facilities such that the role becomes standardized and self-sustaining. Through a cost-share with NYSEERDA, Corning engaged a full-time OsEM for one year. Projects facilitated by the OsEM included operation and maintenance improvements, behavioral changes, energy efficiency upgrades, process improvements, and renewable energy.

Goals

- Develop and drive methods to achieve a 4% reduction in annual energy use per unit of production.
- Provide guidance and expertise to help maximize financial benefits of relevant energy efficiency incentive programs.
- Demonstrate and promote the value of integrating energy management as a core business practice and of applying principles of continuous improvement to foster substantial long-term savings.
- Develop longer term project lists and implementation plans to continue to reduce energy use per unit of production.

The NYSERDA On-site Energy Manager project had a positive impact on the energy management program at the Diesel Plant. Having a dedicated Site Energy Manager resulted in a more coordinated energy management program. The Site Energy Manager was able to organize the site's efforts and members of the team to move our program forward.

Generating Results

Energy Efficiency

The OsEM worked with the team of Corning engineers, managers, and maintenance staff to facilitate implementation of energy efficiency measures and track goals. Completion of an electricity metering system project was included in this effort. Energy use per unit of production decreased by 10% for electricity and 9% for natural gas, relative to the baseline year. Process improvements developed by the team were central to the energy efficiency gains.

Incentive Programs

Corning was eligible to apply for incentives from New York State Electric and Gas (NYSEG) and New York Power Authority (NYPA). The On-site Energy Manager supported the incentive applications with technical analysis, data collection, and an energy audit.

Integrating Energy Management into the Business

The Site Energy Team was revitalized with 12 regular members and three optional members. Topics of discussion at the monthly meetings include technical aspects of energy efficiency projects in progress, ideas for new energy efficiency projects, coordination of resources to accomplish projects, tracking goals, and best practice sharing. As a result, new ideas were brought up for capital improvements and operation and maintenance measures.

Long-Term Planning

An Energy Management Plan was developed in consultation with business stakeholders. The plan commits to continuous improvement, assessing performance, setting goals, implementing an action plan, evaluating progress, and recognizing achievement.

The NYSERDA On-site Energy Manager Program

Through the On-site Energy Manager (OsEM) Pilot Program, NYSERDA cost-shares up to 75% of the cost to hire an OsEM. OsEMs work with companies to develop and implement successful energy and productivity projects. Projects may include operation and maintenance improvements, behavioral changes, energy efficiency upgrades, process improvements, throughput and scrap reduction improvements, and cost management.



Discover how to bring energy costs, and profitability, under control with NYSERDA.

Visit nyserdera.ny.gov/OSEM