



Tessy Plastics



RESULTS

Tessy Plastics achieved measurable savings as a result of implementing energy efficiency projects.

Total Annual Savings

- \$815,000 in energy bills.
- 8 million kWh/yr of electricity.

Equipment Savings

- Waterside economizer pumps: \$43,900.
- Process chiller: \$16,100.
- Injection molding machines: \$727,000.

Tessy Plastics is an industrial manufacturing facility that operates approximately 24 hours a day, seven days a week to produce a wide range of plastic products for the medical, electronic, consumer, business, and packaging industries. The company's world headquarters located in Elbridge, NY, recently expanded its manufacturing facilities with a 100,000-square-foot addition.

Recommendations

With support from NYSERDA, Tessy Plastics was able to implement several projects to help improve efficiencies and save energy in their new facility. Three of them yielded substantial savings:

- **Electric and hybrid injection molding machines:** By replacing its standard hydraulic injection molding machines with 36 all-electric and hybrid models, the manufacturing plant used less energy per product and produced less scrap material.
- **Process chillers and high efficiency pumps:** Tessy installed a more efficient process chiller and chilled water pumps with variable speed drives to cool the injection molds.
- **Waterside economizer:** A waterside economizer increased the overall efficiency of the process cooling water system by using "free cooling" based on outdoor air temperature.

Tessy Plastics also worked with NYSERDA to learn about other potential energy-saving projects, including variable-speed air compressors and variable-speed waterside economizers.

Get started

To learn how you can participate in this exciting program, call the NYSERDA hotline at **1-866-NYSERDA**.

Visit nysERDA.ny.gov for more information and answers to frequently asked questions.