

Building energy efficiency into a major plant expansion

Case Study

Sector:
Manufacturing

Customer:
Irving Tissue

Location:
Fort Edward, NY

Measures Implemented:

- Vacuum system
- Motor system
- Process improvements

Energy Savings:
14,800,000 kWh

Background

Irving Tissue is one of North America's leading tissue, paper towel, and napkin products providers. A major plant expansion at the Fort Edward facility included the construction of three new buildings; new pulp processing, paper machine, and production support systems; and a new boiler house.

Recommendations

To ensure that the new operation was cost competitive, Irving Tissue worked with manufacturers and suppliers to build energy efficiency into the new systems. One of the proposals to save energy was for a more efficient vacuum system. The upgrade saved significant energy but was also a significant cost addition to the project.

Results

In addition to the energy savings from the vacuum system, this project implemented other process-specific improvements and motor system upgrades. In total, this project is saving 14,800,000 kWh over a standard paper machine installation.

“The NYSERDA mission of assisting New York companies to find ways to reduce their energy consumption is a perfect strategic fit with our core value of continuous improvements of our products and processes.”

— Robert K. Irving, President of Irving Tissue

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