



Service/Product Provider

Prenova

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Industrial Partner

Owens Corning

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Owens Corning saves several million dollars with minimal investment by using Prenova and Owens Corning's Energy Process Optimization.

Project Scope

Owens Corning uses the Energy Process Optimization system at 11 of its facilities to identify and implement sustainable energy savings while achieving a return equaling over 3 times the cost of implementation.

Project Summary

The Energy Process Optimization System is a methodology that obtains energy savings by optimizing the use of existing manufacturing assets as a way to minimize the amount of capital required to achieve savings. Additionally sub-metering was installed and sophisticated analytics were used to sustain the savings achieved and to provide a platform for continuous improvement.

- **Energy Savings**
Annual energy savings exceeded several million dollars with a 7% reduction in total energy consumption
- **Investment**
The initial total capital/expense investment was \$1.3 million after applying \$775,000 in rebate funding
- **Financial Return**
The average payback was less than three months, exceeding the savings-to-cost goal
- **Other Benefits**
Reduced maintenance and raw materials, best practices identified, increased employee awareness, improved the energy culture, dedicated Energy Manager assigned at each plant, and reduced overall manufacturing variability.

Monitoring & Verifying Energy Savings

Prenova compared post-project usage with a pre-optimization baseline for each plant by using regression analysis. Utility consumption was normalized for production metrics, site characteristics and weather conditions.

Distinguishing Value

Prenova's hands-on approach, professionalism, and expertise helped Owens Corning to realize energy savings by using Prenova's experts to motivate Owens Corning staff.