

Powerit Solutions' provides our business with a system that controls our electrical demand very well and at a lower cost with quicker delivery than other companies have in the past.

Doug Smith, Project Engineer, Rochester Metal Products

Case Study:

ROCHESTER METAL PRODUCTS



Rochester Metal Products, Rochester, Indiana

Load Management Requirement:

3 - 1500 kW Ajax induction furnaces

2 - 7000 kW Brown Boveri induction furnaces

Powerit Solution Provided:

Average Monthly Savings: **\$60,250**

Average Peak Demand Reduction: **5000kW/month**

Average Foundry Decrease in Demand: **25%**

Average Foundry Electric Bill Cost Savings: **10%**

Total ROI at Rochester Metal Products: **3 months**

Powerit Solution Installed:

Energy Director Intellekt, February 2006

Rochester Metal Products is a large gray and ductile iron foundry in Rochester, Indiana. In 2005 Rochester Metal Products was informed by their utility company, Cinergy, they would be forced to move from their existing real-time pricing tariff with no demand charges to a new tariff with a significant demand charge. In order to maintain a competitive advantage with electrical costs Rochester Metal Products determined they must implement a demand management system by early 2006.

In February of 2006 an Energy Director 4100 system was installed at Rochester Metal Products. Before the Energy Director system was installed the typical monthly peak demand was 21,000kW; since the Energy Director system has been operating the monthly peak demand is now 16,000 kW. This has been accomplished by

Rochester setting their demand set point as low as possible with minimal affect on daily production. The 5,000 kW reduction, results in over \$60,250 in avoided costs per month on their electric bill providing a project payback of less than 3 months.

The Energy Director system optimizes the electricity used in the melting process by helping them operate as one cohesive system. Rochester Metal Products is able to prioritize the operation of all the furnaces all the time. When the Energy Director predicts a peak demand will occur it reduces the lowest priority furnace first. This allows Rochester Metal Products to maintain their production rates while lowering the electric demand.



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demand more from the energy you use