

We are now looking beyond furnace operations to see where Energy Director will allow us to reduce our energy cost even more."

Jerry Dale, Plant Manager

Case Study:

FOOTE FOUNDRY



Foote Foundry, Fredericktown, Ohio

Load Management Requirement:

1000kW and 1600kW Ajax induction furnaces

Powerit Solution Provided:

Average Peak Demand Reduction: **513kW/month**

Foote Foundry Decrease in Demand: **26%**

Foote Foundry ROI: **16 months**


Average Foundry Electric Bill Cost Savings: **17%**

Powerit Solution Installed:

Energy Director, July 2005

Foote Foundry specializes in gray and ductile iron castings. With roots dating back to 1851, Foote Foundry is one of the country's oldest continually operating green sand foundries, using 1000 kW and 1600 kW Ajax induction furnaces.

Monitoring demand with only two furnaces, with no production impairment, the Energy Director has cut average peak demand from 1,974 kW to 1,461 kW. This 26 percent decrease in demand forecasts complete project payback in 16 months.



Foundries operate some of the most energy-intensive processes used in any industry. Induction furnaces, casting crucibles and annealing operations are examples of controllable loads where even small percentage reductions in peak demand can send large savings directly to the bottom line. Typical loads that the Energy Director optimizes include large-scale foundry and casting operations, sheet rolling, stamping and extrusion, electro-plating and anodizing, heat-treating, air handling & scrubbing, and ferrous and non-ferrous smelting and refining. Working with foundry loads, the Energy Director pays for itself with immediate demand cost savings of 10 – 40 percent and payback on investment in less than 18 months, sometimes less than half a year.

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demand more from the energy you use