

CASE STUDY: ENERGY MANAGEMENT SERVICES

SYSTEM TYPE: Utility Rate Negotiations, Consolidated Metering

PROJECT FINANCIALS

Natural Gas Rate Change and Refund

Natural Gas Tax Exemption and Refund

Electric Meter Consolidation Savings

Electric Utility Billing Refund

Demand Reduction Analysis Savings

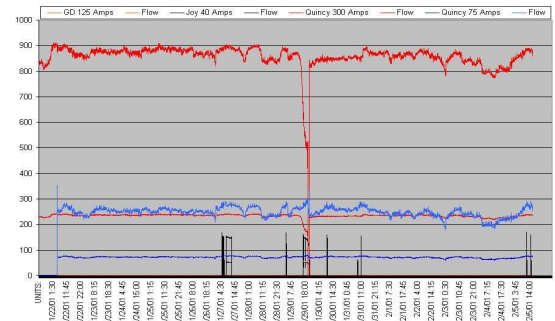
PLASTIC INJECTION MOLDING Facility Receives Utility Bill Refunds, Consolidates Meters, and Identifies Key Energy Performance Factors

Facility Description

- Plastic injection molding facility along with some product assembly
- Warehouse and office areas
- Facility manufactures a variety of plastic parts for customers.

Energy System Description

- Systems include injection molding machines, chilled water supply, cooling water supply, compressed air supply, and vacuum systems
- The wide variety of sizes and applications of the injection molding process causes a highly varying load profile for the facility



System Opportunities

- A new rate contract needed to be negotiated with the electric utility due to contract expiration
- The electric utility planned on implementing a higher demand component in the rate with a demand ratchet and a demand credit mechanism
- The electric utility had multiple meters, needed a billing audit, a supply review, an equipment demand study, and an on site facility assessment.
- The natural gas utility was improperly charging for taxes and some meters were being charged on the wrong rate

Program Benefits

- New multi-year electric utility contract with a base demand reduction credit
- Billing and tax errors identified and refunds were received
- Client identified key energy performance factors to manage energy cost going forward
- Metering was consolidated and real time demand metering installed in clients office
- Overall annual program client energy savings value to program costs exceeded a multiple of 4

Program Summary

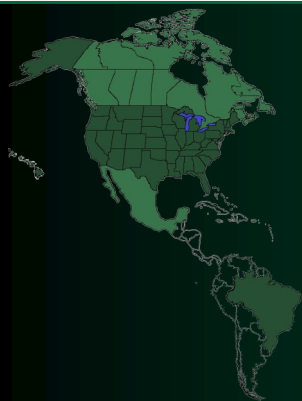
Energy Management Services	<ul style="list-style-type: none"> • A complete energy health check was provided for the client on an ongoing basis including rate analysis and utility negotiations, billing analysis, invoice review, and monthly reporting, along with an electric demand study and a facility assessment to identify and prioritize potential energy consumption reduction projects.. • A new rate was negotiated with the electric utility with a demand reduction credit • Primary metering was installed to replace problematic multiple secondary meters and reduce demand costs • Demand study provided basis for managing the facility demand for further cost savings • Refunds were received from the natural gas utility and the electric utility
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Financial Data

Natural Gas Rate Change and Refund	12% of annual gas costs
Natural Gas Tax Exemption and Refund	19% of annual gas costs
Electric Meter Consolidation Savings	10% of annual electric costs
Electric Utility Billing Refund	5% of annual electric costs
Demand Reduction Analysis Savings	5% of annual electric costs



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