

## CASE STUDY: CONSOLIDATE METERS TO PRIMARY SERVICE

SYSTEM TYPE: New Primary Electric Service, Reduced Facility Cost

### PROJECT FINANCIALS

- Total Turnkey Installed Cost: \$ 63,000
- Annual Energy Cost Savings: \$ 97,260
- Simple Capital Payback: .65 years
- Average Project IRR: 154%

## METAL PLATING Facility Installs New Primary Metered Service, Reduces Facility Demand Charge, Reduces Electric Costs, and Saves \$ 97,000 Annually.

### System Description

- Facility had multiple secondary electric utility meters that each supplied portions of the facility
- The secondary meters were on different utility rates
- Most of the meters has the associated demand charge for its rate
- The demands are uncontrolled and dependent upon the plating process

### System Opportunities

- The multiple meters were all incurring their own demand charges
- The demands in the various areas of the plant were not coincidental with each other
- The overall demand for the facility was not as high as the sum of the demands of the individual meters
- Some of the rates were more attractive than others if the meters could be consolidated

### Project Description

- Installed a new primary metered service to supply all of the facility off from one meter
- Primary meter was installed in utility primary supply
- Utility lines and equipment after the new primary meter were purchased from the utility
- Some additional primary lines were installed to supply a city pump that was located after the new meter

### Project Benefits

- New primary electric service
- Reduced facility demand charge
- Moved all facility load onto more attractive electric rate
- Reduced overall facility electric cost



## Plant Profile

- Metal Plating Facility
- Plate coatings on to various products
- Multiple plating and dipping baths
- Utilizes primarily a batch process for plating
- Multiple stitching machines

## Key Benefits

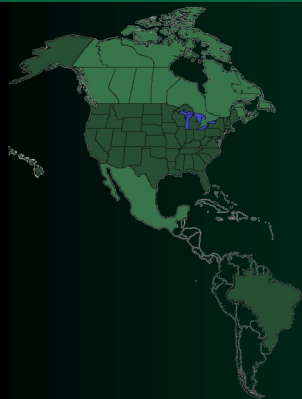
<b>Annual Cost Savings</b>	\$ 97,260
<b>Carbon Reductions</b>	Not Available
<b>Payback</b>	.65 Years
<b>Project IRR</b>	154%

## Financial Data

<b>Investment</b>	\$ 63,000
<b>System</b>	Meters
<b>Life Expectancy</b>	N/A
<b>Incentives/Rebates</b>	N/A
<b>Payback Period</b>	.65 Years



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