

Power Factor Correction: A Case Study



Chippewa Bowl

225 W. Chippewa Avenue • South Bend, Indiana 46614

The Facility

- Bowling & Entertainment Facility
- 70 Lanes
- Game Rooms
- Sports Bars

Service

- Power Factor Correction
- Energy-Saving Solutions Update

Results

- Project Cost: \$10,812
- Cost Savings
Annually: \$24,018
Monthly: 30%
- Payback Period: 10.5 Months
- Monthly Demand Reduction:
20,850 kWh

*Not Magic.
It's Power Factor Correction.*

Power Factor Correction

In 2018, Chippewa Bowl embarked on a program to reduce its direct operating costs. One of the cost-reduction measures that IPA Energy Group presented was to reduce electric demand costs by improving the organization power factor. A comprehensive power factor assessment discovered the traditional equipment and execution was escalating power demand. The IPA Energy Group solution gave them a 30% monthly power cost savings.

This effort has generated significant savings by reducing electrical costs throughout the facility. Savings were achieved through power factor correction along with removing legacy power-saving devices.

Benefits

The immediate benefits of Chippewa Bowl's power factor correction and update are an annual savings of \$24,018. An additional benefit is an increased capacity of existing electrical infrastructure.

Long-Term Savings

Chippewa Bowl also has an improved level of efficiency which will reduce the heat and stress of existing electrical equipment. This will extend usable life and reduce replacement and maintenance costs.

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