

Case Study:

Bottling Plant

Southwest Michigan



Variable Frequency Drives *added to Process Equipment*

Project Summary

A growing beverage company looking to gain efficiencies utilized the incentive program from Indiana Michigan Power. This project included installing a central chilled glycol loop on the existing ammonia system that had reciprocating compressors, cooling towers, and heat exchanger on stand alone controls. Variable Frequency Drives (VFDs) were added to newly installed screw compressors, primary and secondary glycol pumps, and an additional cooling tower. Floating Head Pressure Controls were also added to the ammonia system to help reduce compressor energy consumption.

By installing the VFDs on the process equipment, the campus achieved 1,054,011 annual kWh savings and received an incentive check for \$50,000 from Indiana Michigan Power.

Bigger Picture

This sizable energy-saving VFD project was a part of a company movement to create more sustainable and environmentally friendly facilities.

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Project Stats

Facility Type:

Food & Beverage Service

Type of Project:

25 HP / 450 HP / 40 HP VFD

Total Facility Square Feet:

~ 380,000

Annual Energy Cost Savings:

\$79,156

Incentive Total:

\$50,000

Total kWh Savings:

1,054,011 kWh

Total Cost:

\$330,000

Simple Payback After Incentive:

3.54 Years or 28% ROI

