

Case Study Report



Project Identification

Customer: Winona Powder Coating

Location: Plymouth, Indiana



Design Specifications

Facility Warehouse 258,500' x 36' High

Winter Operation 70° - 0°

Project Challenge:

Winona Powder Coating bought an existing facility in Plymouth, IN. The original facility was heated by a massive boiler system, as well as, Cambridge 100% outside air units. Winona wanted to upgrade their HVAC system to reduce energy consumption and increase temperature setpoint from 55°-0 to 70°-0.



Equipment Solution:

Air Energy provided (8) ER-242-800s + (1) ER-142-400 and (1) ER-130-250. The Rack Units were able to raise the temperature in the space to 70°, while at the same time lowering costs and usage of both natural gas (therms) and electricity (kWh).



Results of Rack System:

Winona experienced Annual Savings totaling **\$99,765**:

- Electrical – 323,463 kWh at \$.10/kWh
- Natural Gas – 89,890 therms at \$.75/therm

Carbon Footprint Reduction: 505 tons of CO2 emissions annually

Winona Powder Coating received verified NIPSCO Rebate:

- NIPSCO – Natural Gas: **\$44,855**

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