

# Case Study Report

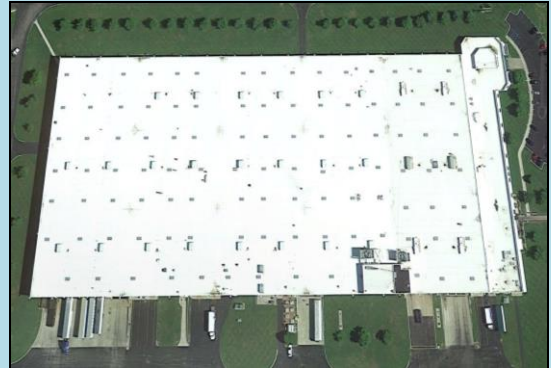


## Project Identification

Customer: Aisin Drivetrain Inc.  
Location: Crothersville, Indiana

## Design Specifications

Facility Warehouse 262,000' x 30' High  
Winter Operation 70° – 0°

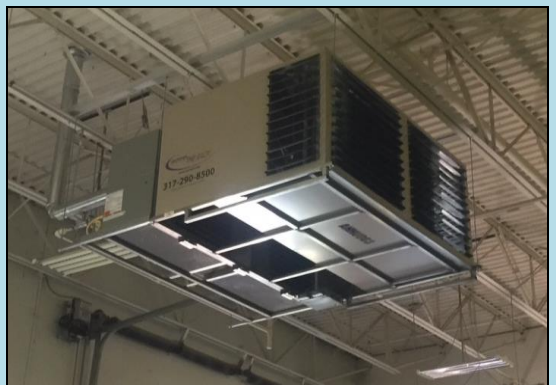


## Project Challenge:

Aisin Drivetrain was heating their facility with (22) Aaon Roof Top Units. This system could only heat the facility to 55°-0° and was using over a 1,000,000 kWh to heat. Aisin wanted a new heating system that would heat to 70° and that would reduce kWh consumption.

## Equipment Solution:

Air Energy provided (9) ER-242-800 Rack Units to heat the facility. Aisin was able to turn off all (22) Aaon RTUs during winter operation, which contributed to a 65% reduction in kWh usage. The (9) Rack Units heated the facility to 70°-0° and provided 2 air turnovers per hour. The Rack Units were also able to provide summer ventilation and cooling distribution during the summer operation.



## Results of Rack System:

Aisin experienced Annual Savings totaling **\$74,677**:

- Electrical – 449,000 kWh at \$.10/kWh
- Natural Gas – 37,220 therms at \$.80/therm

Aisin received verified Duke Energy Rebate:

- Duke Energy – Electric – **\$44,900**