

# Case Study Report



## Project Identification

Customer: Phoenix Group  
Location: Columbus, Indiana

## Design Specifications

Facility Warehouse 468,000' x 38' High  
Winter Operation 55° – 0°



## Project Challenge:

Phoenix Group was being heated by (3) 80/20 Direct Fired Recirculation Makeup Air Units. Phoenix Group was experiencing inconsistent warehouse temperatures and high utility bills. They were also running their MAUs 24 hours a day and 7 days a week all year in order to meet the indoor air quality requirement.

## Equipment Solution:

Air Energy Systems designed a system to utilize (6) ER-242-800 Rack Units run by Web Comfort Energy Management System. This system took advantage of Phoenix's unoccupied hours to lessen their utility consumption and limit outside air when it wasn't required. This Energy Management System incorporated with Racks lead to maximum rebates for both facilities.



## Results of Rack System:

Phoenix experienced Annual Savings totaling **\$40,267**:

- Electrical – 80,500 kW at \$.10/kW
- Natural Gas – 40,842 therms at \$.80/therm

Phoenix received verified Vectren Gas Rebate:

- Vectren – Natural Gas– **\$32,674**