

Case Study Report



Project Identification

Customer: Becknell - 2155 Stafford Rd
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 336,000' x 36' High
Winter Operation 70° – 0°



Project Challenge:

A property developer, Becknell Services, built a vacant distribution center in Plainfield, IN for a future tenant(s). Becknell wanted the facility to be able to be divided into (4) equal spaces that could maintain 70°, and since this building would be sitting vacant Becknell wanted to heat the space at the lowest cost possible.

Equipment Solution:

Air Energy outfitted Becknell's facility with (8) ER-242-800s + (4) Intake Hoods. The Racks heated the building to 70° in the winter and provided summer ventilation of 1 air turnover per hour. Becknell saved 60% in kWh and 40% in therm usage by installing The Rack Units over traditional 80/20 Makeup Air Units, making it the most efficient system to heat and ventilate vacant spaces.



Financial Impact of Rack System:

Becknell experienced Annual Savings totaling **\$86,026**:

- Electrical – 235,260 kWh at \$.10/kWh
- Natural Gas – 72,274 therms at \$.80/therm

Becknell received verified Vectren Rebate:

- Vectren – Natural Gas: **\$62,500**

