

# Case Study Report



## Project Identification

**Customer: Shear GW1- Warehouse**

**Location: Greenfield, Indiana**



## Design Specifications

**Facility Warehouse 368,000' x 36' High**

**Winter Operation 70° – 0° Summer Operation 74° – 98°**

## Project Challenge:

Shear GW1 constructed a distribution warehouse in Greenfield, IN to house (2) separate tenants. One of the tenants wanted their facility heated and air conditioned, and the other tenant wanted theirs heated only. Shear GW1 wanted an HVAC system that would accommodate both tenants and minimize operating costs.



## Equipment Solution:

Air Energy supplied (9) ER-242-800s + (6) ER-242s that were combined with (12) 25 Ton Roof Top Cooling Units. This system was designed to maintain between 70°-74° throughout the year. By installing a combination of heating only, heating + cooling and cooling only *Rack Units*, Shear GW1 saved

***\$ .30/sqft in utility costs.***



## Results of Rack System:

Shear GW1 experienced Annual Savings totaling **\$109,585**:

- Electrical – 376,690 kWh at \$.10/kWh
- Natural Gas – 89,895 therms at \$.80/therm

Shear GW1 received verified Vectren Rebate:

- Vectren – Natural Gas: **\$75,788**