

Case Study Report



Project Identification

Customer: Brightpoint - Sara Lee
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 200,000' x 40' High
Winter Operation 70° – 0°



Project Challenge:

Sara Lee was being heated by (2) 80/20 Engineered Air Direct Fired Recirculation Makeup Air Units. They were experiencing extremely high utility bills and needed to update their equipment. Sara Lee requested ventilation to be provided in the summer, rather than putting in a cooling system.

Equipment Solution:

Air Energy Systems designed a heating system that consisted of (9) ER-242-800 Rack Units with (4) Intake hoods to meet indoor air quality standards. This system utilizes Sara Lee's unoccupied operation hours to reduce utility usage. During summer operation the Rack Units bring in outside air at night to cool the facility down and continually rotate the air in the space. Sara Lee significantly reduced their utility cost and experienced more overall comfort in their facility.



Results of Rack System:

Sara Lee experienced Annual Savings totaling **\$57,609**:

- Electrical – 120,054 kW at \$.10/kW
- Natural Gas – 55,305 therms at \$.80/therm

Sara Lee received verified Vectren Gas Rebate:

- Vectren – Natural Gas – **\$10,516**

