

Case Study Report



Project Identification

Customer: Brightpoint – Ingram Micro
Location: Plainfield, Indiana

Design Specifications

Facility Warehouse 556,000' x 40' High
Winter Operation 70° – 0° Summer – 78°-93°



Project Challenge:

Brightpoint was being heated by (4) 80/20 Engineer Air Direct Fired Recirculation Makeup Air Units and cooled during the summer with (22) 25 Ton Cooling Units. The air conditioning had to be distributed by the Makeup Air Units during the cooling season. Brightpoint experienced extremely high utility bills and needed to update their equipment.

Equipment Solution:

Air Energy Systems designed a system that would incorporate (14) ER-242-800 Rack Units with (22) 25 ton Roof Top Units. The Racks efficiently distribute the air conditioning during the summer operation so that Brightpoint doesn't have to run all of their 22 Roof Top Units all of the time. In the winter the racks carry the whole heat load. This combination system lead to extensive saving in both electric and gas utilities.



Results of Rack System:

Brightpoint experienced Annual Savings totaling **\$103,987**:

- Electrical – 584,500 kW at \$.10/kW
- Natural Gas – 56,250 therms at \$.80/therm

Brightpoint is heating their facility to 70° at **\$.11/sf**

Brightpoint received verified Vectren Gas Rebate:

- Vectren – Natural Gas– **\$45,000**

