

# Case Study Report



## Project Identification

Customer: Drill Rod & Tool Steels  
Location: Franklin Park, Illinois

## Design Specifications

Facility Warehouse 36,000' x 28' High  
Winter Operation 70° – -4°



## Project Challenge:

Drill Rod & Tool Steel was being heated by (5) 61.7% efficient Unit Heaters. The Unit Heaters could only attain 50°- -4°, did not meet outside air requirement (ASHRAE 62.1), and did not provide any summer ventilation.

## Equipment Solution:

Air Energy designed a HVAC system that included (3) ER-230-400 with fresh air intake hoods and Sensi wireless stats. The Rack Units provide (3) Air Changes per hour and met ASHRAE 62.1 code requirement. The owner is now able to control the entire facility wirelessly from his computer. Drill Rod received the max incentive they could from this project (50% of Project Cost).

**Drill Rod & Tool Steel's choice to install Rack Units resulted in payback period less than 1 year.**

## Results of Rack System:

Drill Rod experienced Annual Savings totaling **\$19,090**:

- Electrical – 65,350 kW at \$.10/kW
- Natural Gas – 15,693 therms at \$.80/therm

Drill Rod received verified Nicor Gas Rebate:

- Nicor– Natural Gas– **\$9,225**

