

Case Study Report



Project Identification

Customer: Toyota Tsusho - TAI
Location: Lafayette, Indiana



Design Specifications

Facility Warehouse 350,000' x 36' High
Winter Operation 70° – 0°

Project Challenge:

Toyota Tsusho America built a new distribution warehouse in Lafayette, IN. TAI wanted their new facility's HVAC system to maintain 70°-0° in the heating season, provide ventilation throughout the summer months and minimize the warehouse utility cost.

Equipment Solution:

Air Energy equipped TAI with (9) ER-242-800s + (4) 24" x 36" Intake Hoods. The intake hoods meet ASHRAE 62.1 Fresh Air Code and are utilized during the summer months to bring in cool air over night that is circulated throughout the facility by The Racks 1.5 air turnovers per hour. By installing The Rack Units, **Toyota Tsusho America saved \$.27/sqft in operating costs.**



Results of Rack System:

Toyota Tsusho experienced Annual Savings totaling **\$94,460:**

- Electrical – 215,600 kWh at \$.10/kWh
- Natural Gas – 90,625 therms at \$.80/therm

Toyota Tsusho received verified Vectren Rebate:

- Vectren – Natural Gas: **\$72,500**

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