



CENTERPOINT ENERGY'S COMMERCIAL & INDUSTRIAL SOLUTIONS PROGRAM

CASE STUDY

PROJECT AT A GLANCE

439,634

Therms saved

\$203,362

Estimated annual savings

\$225,010

Incentives paid

To learn more about how the Commercial & Industrial Solutions Program can help your company, visit CenterPointEnergy.com/CustomSolutions.

AXIS WORLDWIDE CASE STUDY

The opportunity

Axis Worldwide LLC is a global leader in the manufacturing of railway axles for the heavy haul freight market as well as the locomotive and transit industries. Axis is a joint venture partnership between market leading companies Amsted Rail and American Railcar Industries. In 2013, the company sought to collaborate with an energy efficiency program to reduce wasted heat in their Paragould, Arkansas, facility. The resulting two year partnership between Axis Worldwide and CenterPoint Energy's Commercial & Industrial Solutions Program, was able to capture huge energy savings.

The project

Axis decision-makers knew there must be a way to utilize the waste energy in the heat treatment process of the railcar axles. During the energy assessment, a large amount of wasted heat was discovered in the axle cooling process, where products start at between 1,000-2,000°F. The team came up with a strategy to capture and channel the wasted heat, installing an elaborate duct system that moves the heat to colder areas of the facility. By the time the project was finished in 2015, Axis completely eliminated the use of six large space heaters. The previously wasted heat is now used to warm the entire facility during winter.

The results

Axis Worldwide and CenterPoint Energy were very proud of the results. The heating upgrade resulted in 439,634 therms of energy savings per year, which is the equivalent of reducing the annual green house gas emissions of 835 tons of waste. The project's cost savings were really the bright spot, with \$203,362 in annual energy savings and a 6-month payback period of the company's initial investment. The rebates CenterPoint Energy paid out for the new equipment were also a massive bonus, totaling over \$225,000.

