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Industrial SPP/ Partner Teaming Profile

Service/Product Provider

Carolinas Energy Associates, LLC

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Industrial Partner

Continental Tire the Americas, LLC

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Carolinas Energy Associates helps Continental Tire's Mt Vernon plant find energy savings with Energy Treasure Hunts.

Service/Product Provider Company Overview

Carolinas Energy Associates, LLC provides **Energy Treasure Hunt** training, tool kits, and facilitation for Industrial facilities that want to save energy (up to \$500,000+ per event) and reduce greenhouse emissions.

Project Scope

Continental Tire retained Carolinas Energy Associates (CEA) to lead an Energy Treasure Hunt at Mt Vernon Illinois plant to identify energy saving opportunities. The plant had registered for the **ENERGY STAR Challenge for Industry** and was seeking ways to identify energy saving opportunities.

Project Summary

Continental Tire's Mt Vernon plant was established in 1973 and produces premium lines of passenger and light truck tires. Following the ENERGY STAR Treasure Hunt guidelines, the pre-training day and 3-Day event took place with 14 employees trained by CEA. Savings opportunities were found in all areas of the plant such as motor drive systems, steam and compressed air systems, heat exchangers, fans and more. CEA helped the teams quantify and calculate savings opportunities and created an action plan that included renewable energy considerations.

- **Energy Savings**
Potential savings of \$467,344/year (7,789,067 kWh/year) and 5,520 Metric Tons of CO₂e/year.
- **Investment**
\$220,262 total implementation.
- **Financial Return**
6-month payback overall; many measures have immediate payback.
- **Other Benefits**
Enhanced employee engagement, awareness, and movement toward corporate Sustainability goals.

Monitoring & Verifying Energy Savings

The plant tracks its overall monthly energy performance and progress towards its **ENERGY STAR Challenge for Industry** goal of a 10 percent energy intensity reduction within 5 years.

Distinguishing Value

Carolinas Energy Associates, LLC utilized their energy management expertise of Energy Treasure Hunts to successfully train employees and facilitate the 3-Day Event which enabled **Continental Tire, Mt Vernon Plant** to identify significant potential energy savings and greenhouse gas reductions.