Lansing Board of Water & Light
Location: Lansing, Michigan

Project Overview

Industry
Power Generation

Application
Combined Cycle Power Plant

Technology Applied
Multi-Valve Multi-Stage (MVMS) Steam Turbine Generator

Capacity
14.5 MW

Background:
The city of Lansing grew immensely over the past century, and in order to keep up with electricity demand as well as EPA rules, the city decided to replace their 50-year-old coalfired plant.

Challenge:
To construct a new, clean, and efficient power plant that meets their electricity demands as well as reduces greenhouse gas emissions.

Result:
Elliott provided a 14.5 MW steam turbine generator which added additional capacity to the combined cycle power plant.

Benefits:
Reliable, clean power
- Increased power output
- Increased power plant efficiency
- Reduced greenhouse gas emissions

“When the plant began commercial operation this July – both on time and on budget – it was noteworthy for several reasons. It became the first new utility power plant built in Michigan in 25 years and the first new Board of Water and Light (BWL) power plant in 40 years. In addition to providing 20% of BWL’s electric generation, the plant produces up to 136,000 kg of steam for BWL’s 225 steam customers in downtown Lansing.”

~ Quote from Cogeneration and On-site Power Production

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