

Case in Point: Fremont Energy Center 700+ MW Combined Cycle Peaking Plant



The largest single project in Dunbar's history, the Fremont Energy Center, is a win-win-win project:

- for FirstEnergy, the client
- for our Project Partners
- for Dunbar Mechanical



The Special Solution

From the 48-inch pipes you see here to the 700+ mega watt energy output, everything about this project was BIG. And the biggest commitment was to safety with 1,053,265 hours worked without occupational injury or illness involving days away from work over the 2+ years of active construction by the team of Dunbar Mechanical, Lake Erie Electric and Aker Construction.



Integrated Project Delivery

Partnering - the Dunbar way. This immense and complex project ultimately delivered a strong ROI through a very committed integrated project delivery process. Team members met daily for a 6:30 a.m. start up session; an 8:00 a.m. progress meeting and a 4:30 p.m. review. Schedules were updated daily. Weekly coordination meetings involved day-long planning processes. Additionally, the team met for dinner monthly for open and frank discussions to keep the lines of communication strong. A shared savings incentive system and open communication resulted in significant rewards for the owner and the team members. At the final meeting a high-ranking FirstEnergy project official stated he "didn't know how he would build this project any other way" and was very complimentary of our efforts in coordination, construction and management.



Project Details

700+ megawatt combined cycle peaking plant

operates with two natural gas turbines plus a process that collects waste heat and sends it to a heat recovery steam generator (HRSG).

The steam drives a third turbine which converts the "waste" product into energy.

Exotic metals including 9-chrome provided a showcase opportunity for Dunbar's skill

computers tracked cooling processes and critical welding techniques ensured optimum quality

Largest single project in Dunbar history
\$40+ million

Your Special Contractor