

# POWER GENERATION



## Boilers

- ▶ Specification and Selection
- ▶ Heat Balance and System Design
- ▶ Sizes 10,000 pph to 650,000 pph

## Turbine/Generators

- ▶ Steam & Gas Turbines
- ▶ Condensing & Backpressure Turbines
- ▶ System P&ID Documentation
- ▶ Foundation Design
- ▶ Tie-in to Existing Piping Systems
- ▶ Control System Design

## Cogeneration

- ▶ Gas Turbine with Direct Heat to Process
- ▶ Gas Reciprocating Engine Generator

## Materials Handling

- ▶ Hog Fuel Preparation and Conveying
- ▶ Ash Conveying
- ▶ Petroleum Coke Handling

## Pollution Control Equipment

- ▶ Wet Scrubber
- ▶ Electrostatic Precipitator
- ▶ Low NOx Burner
- ▶ Flue Gas Recirculation

## Power Distribution

- ▶ Substation Design
- ▶ Transmission Line Design
- ▶ Overhead & Underground System
- ▶ Power Management System
- ▶ Power System Studies

## Ancillary Systems

- ▶ Power System Design
- ▶ Steam and Condensate System
- ▶ Chemical Feed Systems
- ▶ Cooling Towers
- ▶ Water Treatment
- ▶ Plant Utilities
- ▶ Foundation Design
- ▶ Lighting Design

## General Engineering Services

- ▶ Preliminary Engineering
- ▶ Project Budgeting
- ▶ Equipment Specifications
- ▶ Site Development
- ▶ Building Design
- ▶ Construction Engineering Support



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