

La Rosita Power Project



Power output is increased by evaporative cooling and supplementary firing.

Bechtel provided lump-sum, turnkey engineering, procurement, construction, startup, and testing for this 805 MW (net, ISO) combined cycle power plant located in Mexicali, Mexico. Bechtel also provided the same services for the 320 MW (net), single-unit La Rosita expansion plant constructed on the same site.

Bechtel designed, furnished, and erected the entire facility, including switchyard. The Owner provided transmission lines, natural gas and water pipelines, and a sewage treatment plant (makeup water source).

PLANT CONFIGURATION

The plant consists of three Siemens/Westinghouse 501 FD CTGs, three Doosan (formerly Hanjung) supplementary-fired HRSGs, and one lateral exhaust Alstom reheat STG in a 3 x 3 x 1 configuration.

The plant uses a wet mechanical draft cooling tower.

EMISSIONS CONTROL

An evaporative cooling system and supplementary firing were included to increase power output at higher ambient temperatures. NO_x emissions are controlled by dry low-NO combustors. Provisions are included for the future addition of SCR systems for each HRSG to further reduce NO_x levels.



Location:

Mexicali, Mexico

Customer:

Energia Azteca X (InterGen)

Scope of Services:

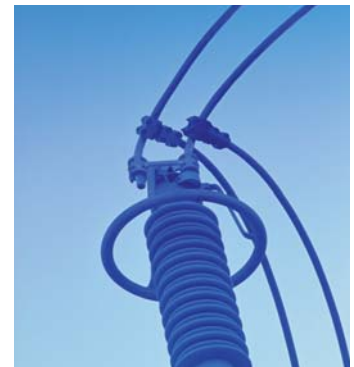
Engineering
Procurement
Construction
Startup and Testing

Project Completion:

2003

Units and Megawatts:

- 3 x 3 x 1
- 805 MW (net, ISO)



Significant Features/ Accomplishments:

- Evaporative cooling and supplementary firing increase power output at ambient temperatures
- Uses gray water for makeup water (after further onsite processing)
- Entirely designed, furnished, and erected by Bechtel, including switchyard