

Project Profile

Grand River Energy Center

Turbine Inlet Chilling Application

CHOUTEAU, OKLAHOMA



Project Facts

Power Increase:

- Incremental 60 MW added

Generation Storage System:

- (1) TAS F70, 7,585, Multi-stage centrifugal

Ambient Design Conditions:

- 99.4°F DB, 75.82°F WB

Gas Turbine Information:

- Mitsubishi 501J

Project Challenge and Solution

The plant is rarely offline as it supplies power to multiple member co-ops and municipal systems as well as sells into the spot market. It is critical for plant operations to maximize generation and efficiency. When the plant began design of a second 7FA-powered 2x1 for the site, options including turbine inlet chilling (TIC) to maximize the plant's output were considered.

About TAS

TAS Energy provides clean and highly efficient solutions through the design and manufacturing of modular energy conversion and cooling systems for the power generation industry; district, commercial and industrial process cooling; data center/mission critical; and the renewable energy sectors.

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