

PetroVietnam Power Generates 30 MW Boost with MeeFog™ 2 x GT13E2 - Nhon Trach, Vietnam



Project Summary:

PetroVietnam Power installed MeeFog™ Systems on two GE Alstom GT13E2 gas turbines. The systems provide fog evaporative cooling and wet compression. The skids have sixteen pumps and provide sixteen stages of fogging each. They produce a 15 MW power boost, resulting in a 30 MW total power boost for both units.

Project Conditions:

- Location: Nhon Trach, Vietnam
- Hot day conditions: 32.6 °C / 48% RH with 23.8 °C wet bulb
- Elevation: Sea Level
- Max power boost per GT: 15 MW
- Mee's scope of work: Supply of fog pump skid, nozzle manifolds, and supervision of installation and commissioning.

Fog System Design:

- Cooling Stages: 16 (evaporative cooling and 0.6% wet compression)
- Operating Pressure: 2,000 psi
- Fog Droplet Size: 12 micron
- MeeFog™ Nozzle Count: 2,048
- Nozzle Flow Rate: 0.17 lpm per nozzle
- Max. Water Flow: 348.2 lpm
- Max. Power Requirement: 160 HP