

MeeFog™ Project Profile

Gas Turbine Inlet Air Fogging

12 x GE 5371PA Gas Turbines - Hallett, Australia



Project Summary:

The MeeFog™ Systems provide fog evaporative cooling and wet compression for twelve GE 5371PA gas turbines. Each skid has four pumps providing sixteen stages of fogging. Each MeeFog™ System produces a 4 MW power boost, resulting in a 48 MW total power boost for all twelve units.

Project Conditions:

- Location: Hallett, Australia
- Hot day conditions: 41.8° C (107° F) and 24% RH; 24.2° C (76° F) wet bulb
- Elevation: Sea level
- Max power boost per GT: 4 MW
- Mee's scope of work: Supply of fog pump skids, nozzle manifolds, and supervision of installation and commissioning

Fog System Design:

- Evaporative cooling and 0.5% (of the air mass flow) as wet compression
- Fogging stages: 16
- Operating pressure: 2,000 psi
- Fog droplet size: 12 microns
- Nozzle flow rate: 0.17 lpm per nozzle
- MeeFog™ nozzle count: 512
- Max pumping power requirement: 40 HP