

Meefog™ Project Profile

Gas Turbine Inlet Air Fogging

1 x M501F Gas Turbine - Victoria, Texas



Project Summary:

The MeeFog™ system provides wet compression downstream of an existing evaporative cooler for the M501F gas turbine. The Meefog™ skid has six pumps and provides six stages of fogging. Each stage produces a 4 MW power boost, resulting in a 24 MW total power boost.

Project Conditions:

- Location: Victoria, Texas
- Hot day conditions: 97° F with 76° wet bulb
- Model: M501F Gas Turbine
- Elevation: 118 feet
- Mee's scope of work: Turnkey except for control mods
- Max power boost per GT: 24 MW

Fog System Design:

- Cooling Stages: 6
- Operating Pressure: 2,000 psi
- Fog Droplet Size: 12 microns (D32)
- MeeFog™ Nozzle Count: 1,950
- Nozzle Flow Rate: 0.080 gpm per nozzle
- Max. Skid Water Flow: 156 gpm
- Max. Power Requirement: 6 x 50 HP