MeeFog[™] Project Profile Gas Turbine Inlet Air Fogging

2 x Siemens V94.2 Gas Turbines - PhuMy 2.1 Extension, Vietnam



Project Summary:

Vietnam Electricity installed MeeFog™ systems on two Siemens V94.2 gas turbines. The systems provide evaporative cooling and wet compression and produce a 19.7 MW power boost, resulting in a 39.6 MW total power boost for the plant. Wet compression consists of spraying water into the gas turbine compressor. The water evaporates inside the compressor. This inter-cooling effect reduces the work of compression, which causes an increase in power output.

Project Conditions:

• Location: PhuMy 2.1 Extension, Vietnam

• Hot day conditions: 38° with 27° C wet bulb

• Elevation: Sea level

Max power boost per GT: 19.8 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 0.6% (for the air mass flow) as wet compression

Cooling stages: 16

Operating pressure: 2,000 psi

• Fog droplet size: 12 microns

• Nozzle flow rate: 0.17 lpm per nozzle

• MeeFog[™] nozzle count: 2,048

• Max power requirement: 160 HP





