

To learn how MeeFog™ systems can increase your profitability contact:

Mee Industries Inc., Corporate Headquarters

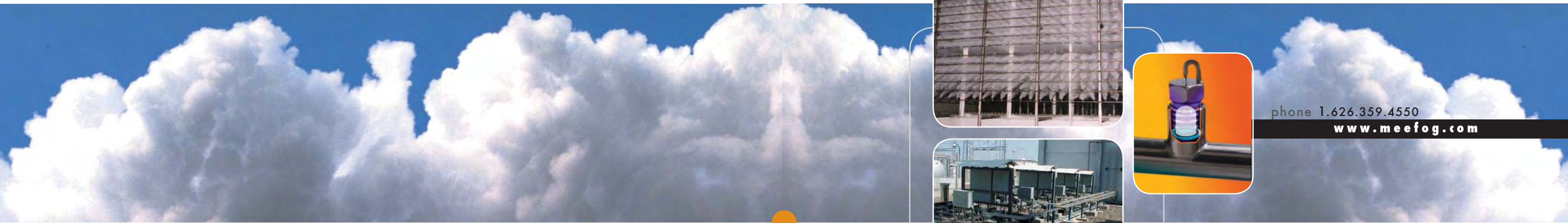
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**MEE INDUSTRIES'
CORPORATE PROFILE**

Mee Industries Inc. is a high technology corporation with a demonstrated history of providing innovative, cost-effective fog solutions for applications including gas turbine inlet air cooling. In 1969, Thomas Mee Jr., a former Cornell University research scientist, founded the company that also specializes in fog solutions for industrial humidification, outdoor air conditioning, greenhouse climate control, wine barrel humidification, and special effects.

MeeFog™ turnkey solutions include carefully engineered, high quality, integrated packages delivering an outstanding combination of price and performance. Our products are backed by Mee Industries' experienced technical staff of employees which includes leading researchers, project managers and engineers, and production and installation specialists. An active research & development group guarantees that Mee Industries maintains its fog system market and technology lead. Mee Industries is an ISO 9001 certified corporation and manufactures components to meet UL or CE requirements.

Mee Industries is a privately held company with corporate headquarters in Irwindale, California.



GAS Turbine

INLET AIR FOGGING

MeeFog™ SYSTEMS

Simply the world's most cost-effective gas turbine power augmentation system.



Initiating the Fog Revolution

Mee Industries Inc. pioneered the gas turbine inlet fogging concept with its first MeeFog™ installation in 1989. Today Mee is the world market leader in inlet fogging installations.

The strong interest in fog cooling is based on the fact that gas turbine power drops with increasing ambient temperatures and the MeeFog™ system is simply the world's most cost-effective augmentation technology compared to other options such as refrigeration or traditional evaporative media cooling systems. Mee Industries revolutionized the gas turbine power augmentation industry and the company remains the market leader today having over 750 installations on gas turbines ranging from 5 to 250 MW.

Mee Industries' commitment to an aggressive research & development program and engineering excellence ensures delivery of top value to its customers.

**MARKET INNOVATOR AND LEADER—
OVER 750 GAS TURBINE INSTALLATIONS**

The MeeFog™ Concept—Elegant Idea—Dramatic Results

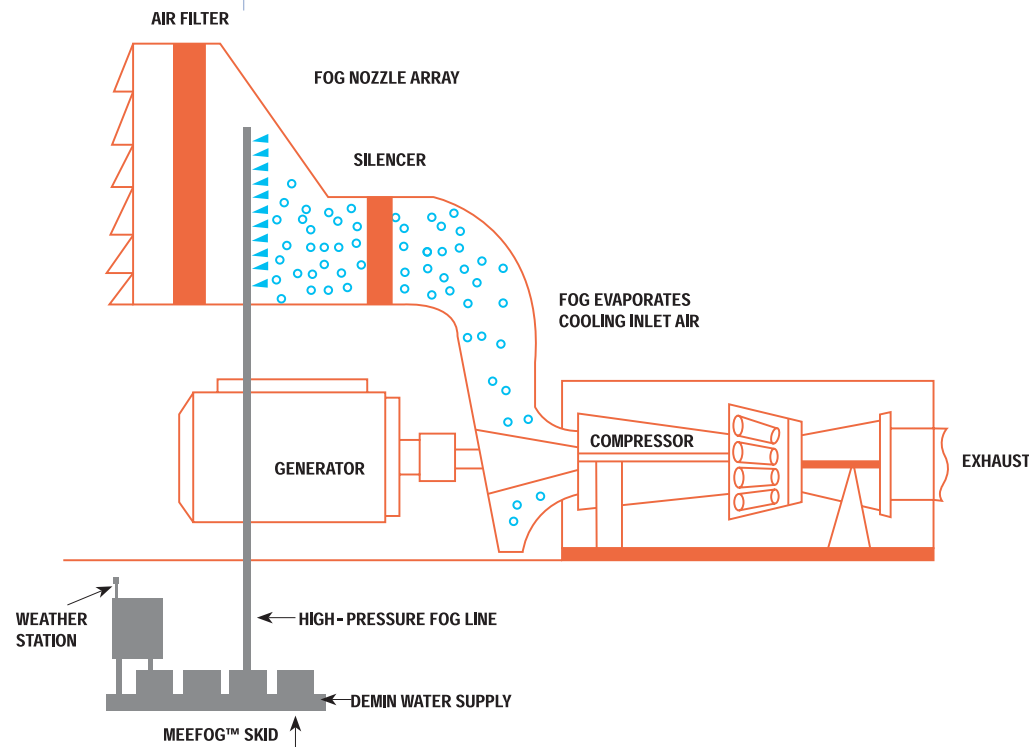
A system of high-pressure pumps pressurizes demineralized water, which flows through a network of stainless steel tubes to the MeeFog™ nozzles located in the gas turbine inlet duct. Each proprietary MeeFog™ nozzle atomizes the water into trillions of ultra-fine fog droplets per second. Due to its large evaporative surface area and the small droplet size, the fog evaporates, cooling the inlet air and providing a cost-effective power boost. The self-contained MeeFog™ skid comes complete with a programmable logic controller (PLC) control system.



Turnkey installation at a 600 MW combined cycle power plant. This project involved six MeeFog™ skids and the turnkey installation of 2.5 km of high-pressure tubing, fog system commissioning, and start-up.

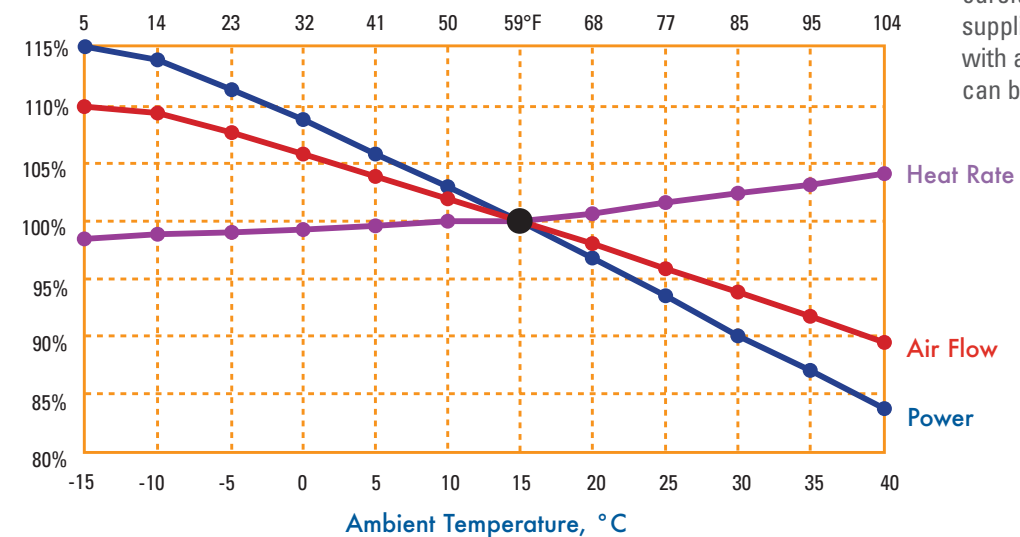


The high-pressure MeeFog™ skid is reliable and carefully engineered. MeeFog™ skids have been supplied to several major utilities and GT OEMs with a large number of repeat orders. Installations can be done with only a 1-2 day outage.



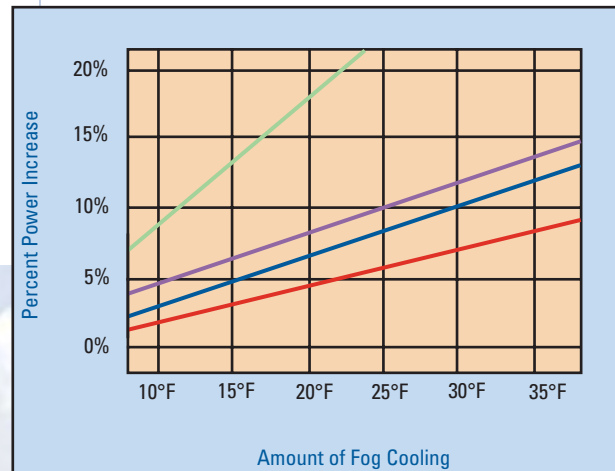
Trillions of microfne droplets evaporate and cool the inlet air every second. This revolution-ary approach, pioneered by Mee Industries in 1989, is today the fastest growing inlet cooling technology on the market.

Effects of Ambient Temperature - Typical Heavy-duty GT



The significant loss in gas turbine power and worsening of heat rate can be mitigated by the MeeFog™ system which lowers the ambient temperature by direct fog cooling in the gas turbine inlet duct.

POWER BOOST FOR VARIOUS TURBINES



Aeroderivative (Simple Cycle)
 Newer Industrial (Simple Cycle)
 Older Industrial (Simple Cycle)
 Older Industrial (Combined Cycle)

MeeFog™ cooling power boost for various types of gas turbines and cycles. MeeFog™ systems have been applied to turbines up to 250 MW in size, both base load and peaking units.

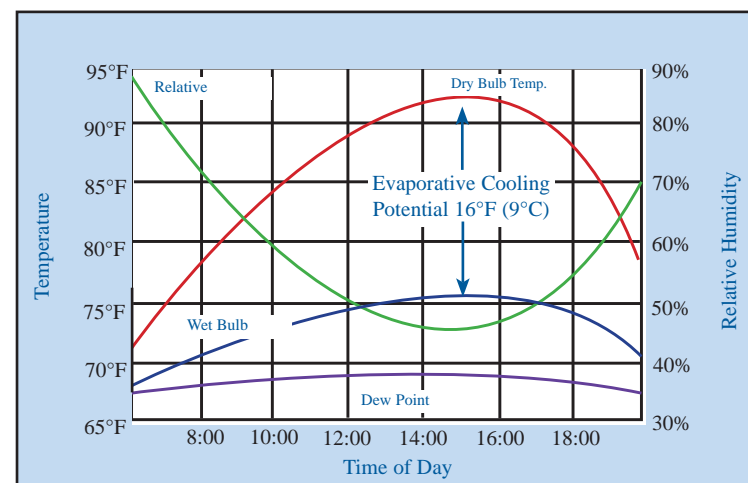


MeeFog™ array for a frame 7FA gas turbine. Superior construction and materials ensure no possibility of FOD. All MeeFog™ arrays are carefully evaluated for rigidity and analyzed for vortex shedding frequencies. The location of the array may be optimized by inlet duct Computational fluid dynamics (CFD) studies. The pressure drop across the nozzle array is almost zero.

NUMEROUS BENEFITS

- Increased output by up to 20%.
- Improved heat rate up to 5%.
- Reduces NOx emissions up to 30%.
- Field tested and proven technology—over 750 installations.
- Lowest capital, installation, and O&M costs compared to other cooling technologies; on the order of \$20-\$40 per incremental kW.
- Approaches 100% saturation with low inlet pressure drop.
- 100% evaporation efficiency if required.
- Easy retrofit, only 1-2 day outage.
- Fog intercooling possible.
- Greater profitability and fast payback.
- Delay capital expenditure by increasing existing generating capacity.
- Fog boost during peak hours will not cause parasitic inlet pressure losses in remaining hours of operation.

TYPICAL HUMID CLIMATE CONDITIONS



Power drop coincides with hot summer afternoons in humid areas when coincident relative humidity is low allowing the MeeFog™ system to be very effective in boosting power when it is most needed. Power increases of up to 10% can be attained by cooling to wet bulb. Many of the over 750 MeeFog™ installations are located in so called “high humidity” areas.

WATER and POWER REQUIREMENTS

Gas Turbine Model	ISO Output kW	kW 100°F (38°C)	Water Fog Flow		kW 80°F (27°C) Saturation	Power Increase kW	Power Increase %
			gpm	lpm			
Alstom GT 8C	52600	41061	12.1	45.8	45980	4919	12.0
Alstom GT 11N	83880	70013	21.7	82.3	74920	4907	7.0
GE 5341N	24750	20252	19	71	22143	1891	9
GE 6541 B	39615	32707	21	79	35500	2793	8.5
GE 7111EA	84920	69533	20.2	76.47	75033	5500	7.9
GE 7221 FA	161650	128621	29.0	110	139998	11377	8.8
GE 9171E	126206	102777	28.1	106	111446	8669	8.4
GE LM2500+PK	27017	19001	5.5	20.8	22917	3916	20.6
GE LM6000PA	41020	25310	8.0	30.3	33475	8165	32.3
Solar Mars	10685	8443	2.8	10.6	9526	1083	12.8
W501 D5	109307	88153	25.0	95	95998	7845	9.0
SW501 F	171790	139596	30.1	114	150812	11216	8.0
SW V94.2	159410	133185	82	302	145237	12052	9
SW701 F	252560	206463	44.6	169	223512	17049	8.3

Table showing typical water consumption for 20°F (11°C) of inlet cooling with typical gas turbine power increases attainable. Actual numbers are site specific. A detailed analysis can be provided by Mee Industries for your application.

Proven Technology From the Market Leader

**MEETING OUR PERFORMANCE COMMITMENTS—
OVER 60% REPEAT CUSTOMERS**

“After two full summers, we are fully satisfied with the MeeFog™ system.”

GE Frame 7EA MeeFog™ user

“We obtain a power boost of 12-16 MW.”

GE Frame 7FA MeeFog™ user

“Due to its low cost, we use fog as much as possible. It is simple, reliable, and relatively maintenance free.”

LM6000 MeeFog™ user

“The MeeFog™ system was the least expensive option to install and operate. The system is capable of 20°F cooling and reduced NOx emissions.”

Solar Mars MeeFog™ user

“The additional power we attained easily paid for the MeeFog™ system within one year. We have not experienced any problems with the system in the two years of operation. It is easy to operate and maintain.”

W 251B5 MeeFog™ user

“We achieve as much as 40°F cooling when humidity is less than 30% which results in a 7.5 MW power boost.”

GE Frame 5 MeeFog™ user

“We are very happy with fog and count on it for extra power. Depending on ambient conditions, we can get about 2-3 MW per machine.”

LM6000 MeeFog™ user

“We are very pleased with fog and plan to fog every turbine we have the money for. It gives us a power boost of 6–8 MW per turbine.”

GE Frame 7EA MeeFog™ user

MeeFog™ systems have been installed on over 60,000 MW of gas turbine capacity. With over 750 systems installed, the power boost from installed MeeFog™ inlet air fogging systems exceeds 6,000 MW. Fogging of a gas turbine engine is an art and a science, and there are several complexities that only our years of experience can address. Among our many repeat customers is a U.S. utility company that has installed MeeFog™ systems on over 60 of its heavy-duty gas turbines.

Mee Industries has worked closely with several utility companies worldwide in accommodating their special requests, accelerating delivery schedules to meet power crunches, and providing responsive after sales support. Our experience covers a wide range of heavy-duty and aeroderivative units ranging from 5 MW to 250 MW, and includes several projects with gas turbine OEMs.

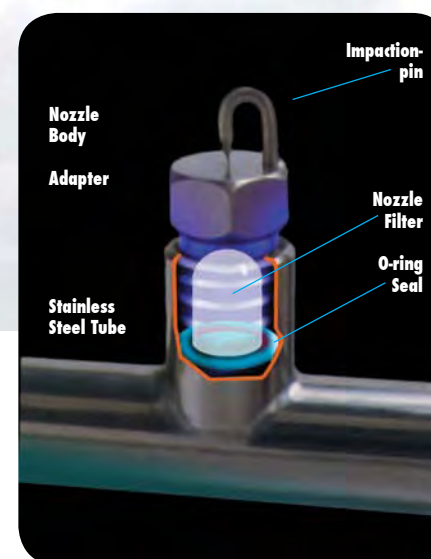
- TENNESSEE VALLEY AUTHORITY • FLORIDA POWER & LIGHT
- ALSTOM • BRITISH PETROLEUM • PRATT & WHITNEY
- MEGS • GEMMA POWER • ELCOGAS
- DAYTON POWER & LIGHT • NORTHERN STATES POWER
- EDISON MISSION ENERGY • ENTERGY • TENASKA
- CALPINE • DYNEGY • U.S. BORAX COMPANY
- CITIZEN'S UTILITY CO. • LA COUNTY SANITATION
- PORTLAND GENERAL ELECT. • NIJECT SERVICES CO.
- MADISON GAS & ELECTRIC • OTTER TAIL
- UTILICORP ENERGY GROUP • TRANS ALTA
- KOREAN ELECT. POWER • CENTRAL HUDSON
- SHELL • AUSTIN ENERGY • RELIANCE IND.
- ENERGY SERVICES INC. • SYRACUSE COGEN
- CINERGY COMPANY • HUNT OIL
- INDEC • CITY OF SPRINGFIELD
- TERRA NOVA • CITY OF REDDING • AK ENERGY
- OILDALE ENERGY • EL PASO NATURAL GAS
- MITSUBISHI HEAVY IND. • DUKE FLUOR DANIEL
- UNIMAR • INDIANA MUNICIPAL POWER • ENERJISA
- IEC • GUJARAT POWERGEN • NEW CENTURY ENERGY
- TURBINE TECHNOLOGY • TAMPA ELECTRIC • L'ENERGIA
- MANITOWOK PUBLIC UTILITIES • BASIN ELECTRIC POWER
- CHEVRON • CITY OF LAKE LAND • FORMOSA PLASTICS
- CITY OF GLENDALE • TRACTABEL
- DUKE ENERGY • KAUAI ELECTRIC • SHUNDE DESHENG POWER
- NORTH AMERICAN ENERGY • TICONA POLYMERS INC.
- ALABAMA ELECTRIC COOP. • ARCO • NRG ENERGY
- SOLAR TURBINES • JACKSONVILLE ELECTRIC AUTHORITY
- AHMEDABAD ELECTRIC • Solutia Inc.

Advanced Nozzle Design

MeeFog™ Nozzles reliably produce the smallest droplets of any high-pressure nozzle available today.

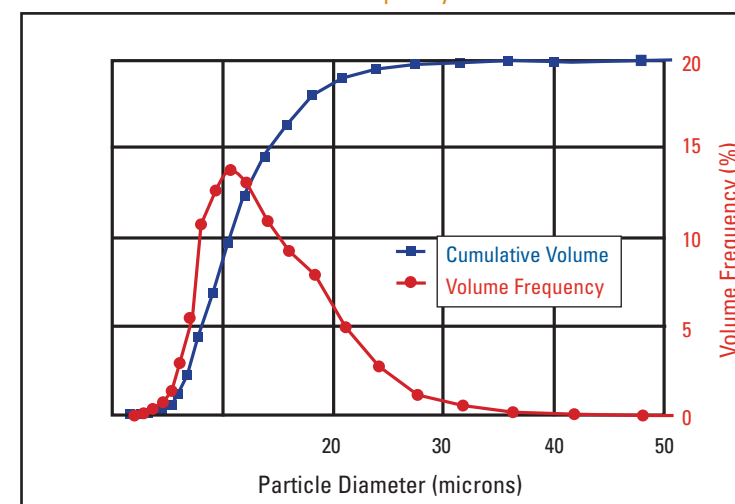
Mee Industries Inc. manufactures the world's best impaction-pin type fog nozzle. Droplet size is the single most important factor governing fog system performance. Smaller droplets mean faster and more efficient cooling, less wetting of duct surfaces and greatly reduced compressor blade distress. The MeeFog™ nozzle sets the standard for inlet fogging nozzles and has been shown to consistently out perform other nozzles.

The standard MeeFog impaction-pin nozzle is constructed entirely from high-grade stainless steel. It has a 0.006 inch (150 micrometer) diameter orifice. At an operating pressure of 2000 psi (138 bar), the average droplet size is well below 10 microns, about one tenth the diameter of a single strand of hair. The DV90 diameter is less than 20 microns; meaning 90% of the water mass flow is in droplets that are 20 microns or smaller. Mee Industries also produces nozzles with reduced orifices, which produce even smaller droplets.



MeeFog™ nozzle construction. This nozzle is manufactured by Mee Industries and has been proven on thousands of installations. Each and every nozzle is tested prior to installation into fog manifolds.

**MeeFog™ Nozzle (Impaction-pin type with 0.006 inch orifice @ 2000 psi)
Cumulative Volume and Volume Frequency vs. Diameter**



Performance of MeeFog™ nozzle at 2000 psi (138 bar) operating pressure. Note that 90% of the volume (water mass flow) is in droplets that are less than 18 microns. Droplet sizing was performed with a laser particle analyzer in air with 100% humidity and 3000 ft. per minute (15.2 m/sec) velocity.