



# Mist elimination increases filter life and lowers pressure drop

Atlantic LNG, Trinidad





*Rising energy costs and shortages around the world have driven the power and process industries to seek innovative solutions. Worldwide energy demand continues to rise faster than generating capacity, electric power industry deregulation has created a demand for products that will make power producers more efficient.*

### **Foreign matter entering gas turbine air houses**

Modern Gas Turbine air houses have greatly improved the quality of air introduced into the turbine. But even those modern plant designs may suffer from fouling due to dust ingestion, particulate, liquid, and salt air. With the proper application of Mist Elimination techniques these risks can be reduced.

#### **Case study**

Increase filter life and lower pressure drop with gas turbines.

#### **Advantages:**

- Highly efficient drop and particles removal
- Protects air filters and prolongs filter lifetime
- Protects turbine blades from erosion, corrosion and scaling
- Very low pressure drop

Bird screens protect against foreign object and bird access damage. Bird screens will not stop dust from entering.



Drain boxes transport liquid to an external drainage system so the mist eliminators doesn't flood.

# From weather hoods to Mist Elimination system

A Munters Trinidad customer has four Gas Turbine trains with twenty-seven gas turbines. Gas turbine energy is used to compress the natural gas into a liquid state for storage.

Its plant was experiencing power downgrades and frequent filter changes in their air houses. Munters was called in to look at the existing air houses, which are protected with weather hoods.

After a full inspection of all units, it was determined the best way to extend filter life would be to remove the hoods and install a Munters Mist Elimination system, which would reduce the amount of foreign matter reaching filters.

The customer selected Train 1 as their first installation, with six turbines this train was closest to the ocean and it was having the greatest filter problems.

After a trial period on Train 1 it was determined that the mist eliminators were doubling filter life! Since this installation Munters has worked with various OEM's, and other end users such as Progress Energy in Florida and Eco Electric in Puerto Rico.

Would you like to find out if Munters has a solution for your company too? If so, please visit our website, [www.munters.com](http://www.munters.com)

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