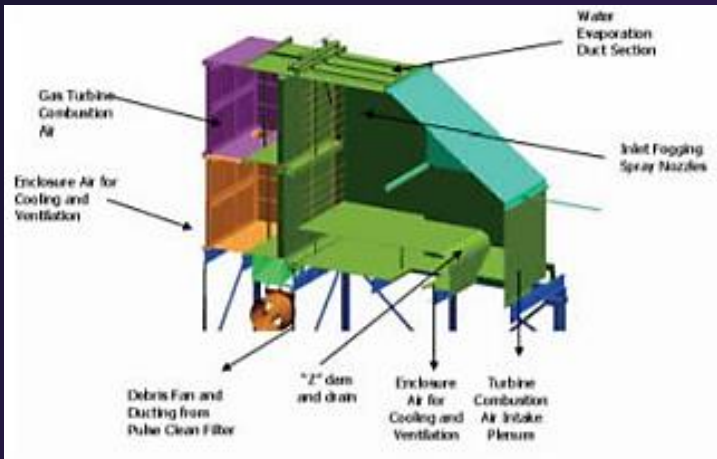
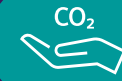


HEPA Air Filtration

Applicable fleet: All packages



Equivalent to ~3% H₂ blend



Up to 1% mass CO₂ reduction

Product Overview

Siemens Energy is pleased to offer a range of filters to improve filtration efficiency and extend operational life. Increased air flow can be provided to allow gas turbine upgrade. Replacement units for normal unit attrition are available along with enhanced systems to cope with rapid contamination from harsh environments.



Improved Features

- The combustion air intake system is a high velocity/high efficiency cross flow design in a single stage, utilizing a combination of inertial separation, with pulse cleaning air filtration.
- The filter is supplied with a secondary air circuit to exhaust dust particles as required during operation.
- The filter provides a stream of clean air for combustion within the gas turbine, which is drawn across the inlet fogging array and into the combustion air intake silencer and ducting by the gas turbine compressor.
- Additionally, the lower section of the filter provides a ventilation/cooling air stream to maintain gas turbine driver package compartment temperatures.



Benefits

- Additional protection from fine particles and extended unit performance by preventing environmental deposits on the inlet housing and compressor rotor.
- Turbine protection is gained at low cost whilst compressor fouling and erosion are reduced.
- Increased availability and reliability.



Scope of work & Implementation

- Upgrade is implemented **on site**:
 - New filter and support structure will be designed per project specifications.
 - Controls upgrades.
 - Instrumentation upgrades.

