Generator air inlet interface

How does air quality affect a gas turbine inlet filtration system?
The potential air quality variations will impact the operational efficiencyof the gas turbine inlet filtration system. An inlet system that is designed primarily for dusty climates,for example,may not perform well if steam or water droplets are continuously entrained with the gas turbine inlet air.

Can a compressor inlet air cooling system improve intercooled gas turbine performance?
To address these two gaps,the current study introduces an innovative compressor inlet air cooling (IAC) system that utilizes waste heat emitted from an existing intercooler design to improve intercooled gas turbine performancewhen operating at high ambient temperatures.

How to select the optimal inlet air cooling system for intercooled gas turbines?
It is important to note that the optimal inlet air cooling system for intercooled gas turbines can be selected through a thermo-economic analysisthat factors in different ambient temperatures and the ISO relative humidity level of 60%. Fig. 9. Required cooling capacity for an inlet air cooling system. 6.2. Inlet air temperature drop

What is a diesel generator air intake & exhaust system?
The diesel generator air intake and exhaust system (DGAIES) provides the diesel engine with combustion air from the outside. The combustion air passes through a filter and silencer before being compressed by a turbocharger and cooled by the coolant system before entering the individual cylinders for combustion.

Does a gas turbine inlet system perform well?
An inlet system that is designed primarily for dusty climates,for example,may not perform wellif steam or water droplets are continuously entrained with the gas turbine inlet air. GE can assist with the selection of suitable inlet options for a given range of expected site air quality conditions.

Can a novel inlet air cooling system increase power output?
A novel inlet air cooling system for intercooled gas turbines is proposed. The proposed system is able to increase power output by 19%and efficiency by 2.3%. The novel system offers 8-18% better efficiency than existing designs in literature. The new system generates substantial annual profits.

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