

Micro turbine power generator British Virgin Islands

What is a microturbine system?

A microturbine, or micro turbine, is a power generation systembased on the combination of a small gas turbine and a directly driven high-speed generator. In many cases, a gas turbine includes an exhaust gas recuperator that improves the efficiency of the system.

What is an aeroderivative turbine?

An aeroderivative turbine is an engine derived from a jet enginethat operates at very high compression ratios (typically in excess of 30) and that tends to be very compact. Aeroderivative technology enables the manufacturing of more efficient gas turbine generators for electric utilities.

What is microturbine cogeneration?

Microturbine cogeneration is the use of one fuel source to provide both electricity and heat(cogeneration). This system is commonly used in lumber dry kilns,greenhouses,retail stores,apartment buildings,or any application where heat and electricity are used.

What are the different types of microturbines?

There are many types of microturbines. Examples include aeroderivative turbines, steam microturbines, and hydro microturbines. An aeroderivative turbine is an engine derived from a jet engine that operates at very high compression ratios (typically in excess of 30) and that tends to be very compact.

What is the difference between a gas turbine and a microturbine?

In many cases, a gas turbine includes an exhaust gas recuperatorthat improves the efficiency of the system. Microturbines also include a combustor that can run on various fuels such as natural gas, diesel, ethanol, and bio-gas. The level of harmful emissions is very low.

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The combustion air enters the MicroTurbine via the generator, cools it in the process and is compressed to around 4 bar in the compressor. The fuel is added to the combustion chamber and burned. The hot combustion gases are expanded in the ...

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This profile provides a snapshot of the energy landscape of the British Virgin Islands (BVI), one of three sets of the Virgin Island territories in an archipelago making up the northern portion of the Lesser Antilles.

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