

Gas Turbines Eolss

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Here three gas turbines heat three boilers for one common set of steam turbines. This design is used for big, base load power. This plant setup offers high availability for the plant operation, since the overhaul of a gas turbine can be executed while the plant continues to run on the two remaining gas turbines.

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The gas turbine is a steady flowdevice in which air is compressed to a high pressure in the compressor, fuel is added in the combustion chamber, resulting in a high temperature at the turbine inlet; the hot gases are then expanded in the turbine back to atmospheric pressure.

Gas Turbine Fundamentals

The exhaust gas temperature in a gas turbine is typically 500 - 600°C and this can be used in a Waste Heat Boiler (WHB) also known as a Heat Recovery Steam Generator (HRSG) to raise steam. The steam may be used in a steam turbine to generate more power with no further addition of heat, resulting in a very high thermal efficiency.

Gas Turbines For Electric Power Generation

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Online Library Gas Turbines Eolss industrial machines. Gas turbine - Wikipedia The purpose of gas-turbine power plants is to produce mechanical power from the expansion of hot gas in a turbine. In these notes we will focus on stationary plants for electric power generation, however, gas turbines are also used as jet engines in aircraft propulsion.

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Gas turbines play a major role in off-shore power applications, where their compact size, low weight and high power density offer major advantages in the confined space available on an off-shore oil or gas platform. ©Encyclopedia of Life Support Systems (EOLSS) THERMAL POWER PLANTS – Vol. III - Gas Turbine Fundamentals - H.I.H ...

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The gas turbine units (or engines), and also combined units with gas turbines and steam turbines working on power stations of different types and with high capacity (from several tens up to several thousand of megawatt), are classified as stationary turbine power units. They provide customers with electrical energy and (sometimes) heat.

Gas Turbine and Wind Turbine Engines for Power Stations

Presently available gas turbines (GT) find an ever-growing use in marine and land vehicle power plants due to many advantages they can offer over other thermal engines.

Gas Turbine Engines for Marine and Road Transport

Gas turbine installations are used as mechanical drives in various industries: in chemical plants and iron and steel industry, in the manufacture of nitric acid, in the synthesis of ammonia, in petrochemical industry, etc.

Gas Turbine and Wind Turbine Engines for Mechanical Drives

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The major choices are gas turbines, electric motors and reciprocating engines. Gas pipelines have traditionally used reciprocating engines and gas turbines because pipeline quality natural gas is a desirable fuel that delivers an efficient, economic and environmentally acceptable solution.

Pump and Compressor Operation

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