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combustion produces a high temperature high pressure gas stream that enters and expands through the turbine section the turbine is an intricate array of alternate stationary and rotating aerofoil section blades as hot combustion gas expands through the turbine it spins the rotating blades in this article and the video below you are going to learn what a gas turbine is and how it works in a very easy to follow format two of the most common applications of gas turbines in modern industries are turbo generators and turbo compressors i try to approach a gas turbo generator gtg to better feel the subject a gas turbine also called a combustion turbine is a type of continuous flow internal combustion engine the main parts common to all gas turbine engines form the power producing part known as the gas generator or core and are in the direction of flow a compressor driving turbine a gas turbine also called a combustion turbine is a type of continuous flow internal combustion engine 1 the main parts common to all gas turbine engines form the power producing part known as the gas generator or core and are in the direction of flow a rotating gas compressor a combustor a gas turbine is a combustion engine at the heart of a power plant that can convert natural gas or other liquid fuels to mechanical energy this energy then drives a generator that produces the electrical energy that moves along power lines to homes and businesses play our video for a gas turbine engine the accelerated gas or working fluid is the jet exhaust most of the mass of the jet exhaust comes from the surrounding atmosphere most modern high speed passenger and military aircraft are powered by gas turbine engines turbines are used in gas turbine engines on land sea and air turbochargers are used on piston engines gas turbines have very high power densities i e the ratio of power to mass or power to volume because they run at very high speeds a gas turbine b is a type of turbine that uses pressurized b gas to spin it in order to generate electricity or provide kinetic energy to an airplane or jet the process to do so is called the brayton cycle in all modern gas turbines b the pressurized gas is created by the burning of a fuel like natural gas kerosene propane or jet fuel category science tech gas turbine engine any internal combustion engine employing a gas as the working fluid used to turn a turbine the term also is conventionally used to describe a complete internal combustion engine consisting of at least a compressor a combustion chamber and a turbine power generation that fits your needs ge s aeroderivative and heavy duty gas turbines feature an output range from 34 mw to 571 mw they are proven performers in simple and combined cycle operation for pure power generation cogeneration mechanical drive and waste to power this video explains how a gas turbine the heart of the power plant produces an electric current that delivers power to our people put that in your power plant and spin it learn more in gas turbines the working fluid is air mixed with the gaseous products of combustion most gas turbine engines include at least a compressor a combustion chamber and a turbine these are usually mounted as an integral unit and operate as a complete prime mover on a so called open cycle where air is drawn in from the atmosphere and the gas turbine a gas turbine is a machine that harnesses the energy contained within a gas either the kinetic energy of motion of a flowing gas stream or the potential energy of a gas under pressure to generate rotary motion from power generation technologies second edition 2014 related terms energy engineering natural gas power introduction rich dennis turbines technology manager 1 1 simple and combined cycles claire soares 1 1 1 introduction 1 1 2 applications 1 1 3 applications versatility 1 1 4 the history of the gas turbine 1 1 5 gas turbine major components modules and systems 1 1 6 design development with gas turbines 1 1 7 gas turbine performance this training manual introduces the fundamental principles of gas turbines including their design and physics the book also covers lube oil fuel air and seal oil systems as well as operation control and maintenance of gas turbines a combustion engine within a power plant that is used to change the natural gas b or fuels of liquid to mechanical energy is known as a gas turbine b this converted energy is used to drive an electric generator that generates the electrical energy that is used from power lines to businesses homes gas turbines are a type of internal combustion ic engine in which burning of an air fuel mixture produces hot gases that spin a

turbine to produce power it is the production of hot gas during fuel combustion not the fuel itself that gives gas turbines the name