

46ESS-xx: Solar Turbines industrial gas turbine engines and technology evolution

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Solar Turbines, a subsidiary of Caterpillar Inc., is one of the world's leading manufacturers of industrial gas turbines, with more than 15,000 units and over 2 billion operating hours in over 100 countries. Products from Solar Turbines play an important role in the development of oil, natural gas and power generation projects around the world. Solar Turbines' products include gas turbine engines (rated from 1,500-30,000 horsepower), gas compressors, and gas turbine-powered compressor sets, mechanical-drive packages and generators sets (ranging from 1-22 megawatts). Products include six gas turbine product families, Saturn[®], Centaur[®], Mercury[™], Taurus[™], Mars[®], Titan[™], and 10 centrifugal gas compressor product families including both pipeline and production compressors. Gas Turbine Products range from 1-22 MW (1500-30,000hp). Solar develops two advanced technology guaranteeing the high quality of gas turbines. One is the TurboTronic[™] microprocessor-based control systems utilizing PLC technology, the other is the SoLoNOx[™] dry-emission technology that significantly reduces nitrogen oxide emissions, a contributor to smog.