



FLEXENERGY
SOLUTIONS

FLEX TURBINES® CLEAN PRIME POWER



FLEX TURBINE EMISSIONS MEET THE STRICTEST STANDARDS.

FlexEnergy Solutions leases and services the most resilient, clean gas turbines available for off-grid or grid parallel applications. Whether located in remote, extreme climates or in the heart of Manhattan, our customers rely on our ability to deliver the highest quality engineering, power, and support 24/7, 365 days per year.

Flex Turbines are robust, industrial-grade systems that burn cleaner than any gas turbines in their class. They transform associated flare and natural gases from operations into a continuous source of clean electric power, no matter the working conditions. Its low NOx emissions on a wide range of associated and methane gases meets air quality standards for expedited permitting.

Reliable, Clean, Power on Demand.



INNOVATIVE DISTRIBUTED

FLEX TURBINE GT333S (333 kW)

Adapted from the Dresser Rand KG2 by Ingersoll Rand in the early 2000's, the Flex Turbine is the most reliable small gas turbine generator with proven high up time in harsh environmental conditions. Now matured and deployed by FlexEnergy Solutions, its performance has been proven with millions of runtime hours, more than sixteen years of operations on a wide range of gases, and varied environmental conditions throughout the world. FlexEnergy Solutions maintains the largest owned and operated small gas turbine fleet delivering power to industrial and commercial operations today.

WIDE FUEL TOLERANCE

- 350 BTU/scf to 2,500 BTU/scf
- Up to 10,000 ppmv H₂S
- Up to 70% CO₂
- Internal Gas Booster option for low pressure fuels
- Can burn up to 30% hydrogen

EFFICIENCY HIGH PERFORMANCE

- The ONLY microturbine with a synchronous generator, enabling large motor start
- Integrated controls with Generator Braking Resistor enhances transient load following
- Built-in automatic paralleling and synchronizing
- Certified to California Air Resources Board (CARB) Distributed Generation Standard

ENVIRONMENTAL BENEFITS AND RESILIENCY

- Avoids flaring
- Eliminates diesel usage
- Low sound: runs quiet
- GHG reduction
- Microgrid integration for resiliency
- Dual mode
- Low touch
- High uptime
- Integrated cogen with efficiency up to 85%
- One scheduled maintenance per year



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ENERGY TECHNOLOGY



GT2000S (2MW) POWERED BY **SIEMENS energy**

Another adaptation of the Dresser Rand KG2, the legendary GT2000S gas turbine was first installed in 1972. Since then, over 1,000 units have been installed in 62 countries worldwide, onshore and offshore, in continuous duty operations in all types of environments. The highly versatile gas turbine generator sets are used for a variety of baseload and emergency power generation applications – from fixed and floating installations offshore, to onshore oil fields, on rooftops, and integrated into buildings for simple cycle and combined heat and power (CHP) duties. Because of their simple, low maintenance design, high reliability and operational experience, GT2000S turbine generator packages are the preferred solution for 2MW power requirements. A wide fuel range enables operation on extremely low heating value fuels, landfill gas, and associated gas from crude oil production.

WIDE FUEL TOLERANCE

- Wide Acceptable Gas Range; ~350 Btu/scf to ~2300 Btu/scf
- Sour Gas tolerant; 15,000 ppm by mass H₂S
- Acid Gas tolerant
- Can burn up to 5% hydrogen – 100% expected by 2025

EFFICIENCY HIGH PERFORMANCE

- High-Efficiency CHP: Up to 85% with HRSG and/or Absorption Chiller
- Automatic paralleling and synchronizing: Multiply units paralleled for operating high horsepower loads
- Low exhaust emissions; ≤10ppm NO_x and CO, corrected to 15% Oxygen on natural gas at ISO conditions

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FLEXENERGY LEASING SOLUTIONS

Designed for simple site hookup, fast commissioning, and durability in harsh environments, Flex Turbines are efficiently packaged for remote site deployment. Skid mounted and trailer mounted packages include:

- Flex Turbine with outdoor enclosure
- Generator Braking Resistor for load stabilization during startup, shutdown and remote power running changing cyclical loads
- Fuel Conditioning System
- Quick electrical disconnects
- Stand-alone power distribution panel option
- Snow hoods and air inlet pre-filters
- Cellular remote communications, monitoring, and data collection
- Pre-tested prior to site delivery



MARKET VALUE

We provide on-grid and off-grid power that's always on, so our customers can save money and focus on their business without interruption. From our field service teams to our engineers and support staff, we work together to provide the highest value to our customers with power solutions that are clean, dispatchable, and reliable.

RELIABLE

- Just one 8-hour scheduled service per year
- Isolated, remote, extreme conditions
- Remote monitoring provides instant communication

HIGH UPTIME

- 99% uptime proven over eight million runtime hours
- Extensively trained local technicians available 24/7

CLEAN

- 60x cleaner than Tier III engines
- Strict emissions standards compliance
- Convert flare gas to useful energy
- Certified to the California Air Resources Board Natural Gas Distributed Generation Standard

SCALABLE

- Units can run individually or in parallel
- Quickly and easily add or remove units to satisfy varying power needs

WIDE FUEL TOLERANCE

- Uses existing wellsite gases – wet, sour, or dry
- Propane backup availability
- High/low BTU, H₂S up to 10,000 ppm
- Up to 30% Hydrogen

VALUABLE

- High availability maximizes production revenues for optimum ROI
- Lease rates include support, monitoring, and service
- Support critical loads during utility outages



Reliable, Clean, Power on Demand.

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