



**FLEXENERGY**  
SOLUTIONS

## RELIABLE REMOTE POWER FOR SITE OPERATIONS

### CONVERT FLARING INTO A CONTINUOUS SOURCE OF CLEAN ELECTRIC POWER,

Consistent uptime easily translates into increased production. The wide fuel operability and low maintenance of Flex Turbines provide producers with proven 99+% runtime power. Delays in production are avoided and expensive equipment replacements that result from unexpected power losses are completely averted. Producers can rely on uninterrupted remote power while completely bypassing the uncertainty of and fluctuating rates from the grid, even in extreme climates.



Flex Energy Solutions provides off-grid power that's always on, so oil and gas producers 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 value to our customers with power solutions that are reliable, clean, and simple. Each feature of the Flex Turbine® is beneficial in helping our customers perform better. Combined, they deliver total product value.

*Power: reliable, clean, and simple.*

## FLEX TURBINE FACTS

### RELIABLE

The rugged design of the Flex Turbine has few moving parts and a track record of 99+% uptime, more reliable than diesel- or gas-powered reciprocating engines. Flex Turbine reliability also far surpasses what utilities can provide — if they can even make power available in remote, harsh environments where E&P operators need it most.

**PROVEN 99+% UPTIME**

**REMOTE MONITORING**

**HIGHLY DURABLE IN EXTREME CONDITIONS**

**NO ON-SITE SUPERVISION NEEDED**

**ONLY ONE 8-HOUR SCHEDULED SERVICE PER YEAR**

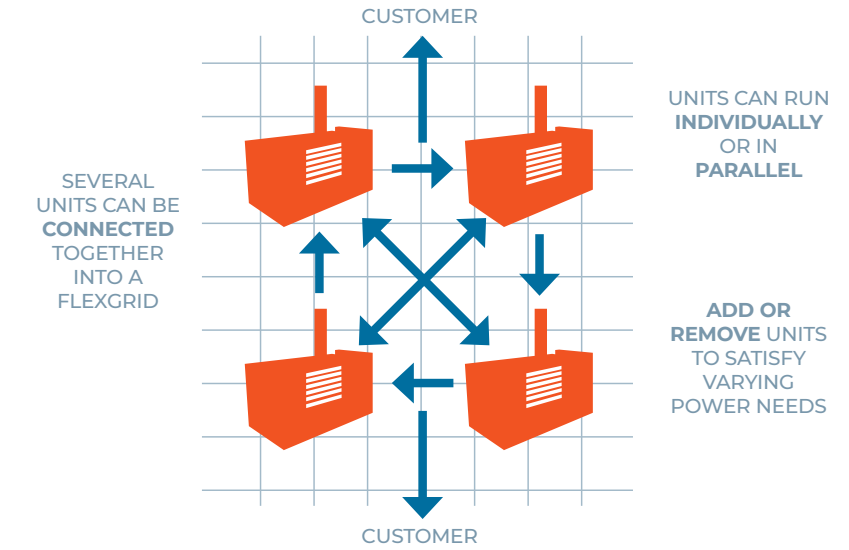
OFF-SHORE INDONESIA

NORTHERN ALBERTA CANADA



### SCALABLE

Flex Energy Solutions' turnkey power option is designed to scale-up or down based on the operator's power demands. Modularity means several units can be connected together into a FlexGrid, giving operators the ability to scale power capacity up or down as demand changes over the life of a producing well or production pad, with minimal environmental impact.



### WIDE FUEL TOLERANCE

With an ability to use the widest range of gases, including flare, wellhead, tank vapor, and H<sub>2</sub>S tolerance up to 10,000 ppmv, the Flex Turbine is an ideal fuel source for reliable, onsite power. Turbines operate on primary fuel gas and offer an option to automatically switch to backup fuel, such as propane or other available gas, when the primary fuel gas is not available.

FLARE WELLHEAD TANK VAPOR PROPANE H<sub>2</sub>S GAS

**100%** ABILITY TO BURN 100% PROPANE FOR BACKUP

**70%** USES GASES AS HIGH AS 70% CO<sub>2</sub>

**35%** HANDLES WIDE RANGE OF METHANE CONTENT AS LOW AS 35%

USES GASES UP TO **1%** H<sub>2</sub>S, 2500 BTU

### CLEAN

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 oil and gas operations into a continuous source of clean electric power no matter the working conditions.

- Certified to the California Air Resources Natural Gas Distributed Generation Standard
- Reduces use of flare gas and tank vapors
- Simpler, faster permitting
- Eliminates need for diesel transport; cuts added costs and emissions

**630+** MILLION CUBIC FEET OF AVOIDED FLARE GAS

**620** MILLION GWH OF POWER PRODUCED

**800** MILLION POUNDS OF CO<sub>2</sub> FROM DIESEL FUEL/TRUCKS AVERTED

**10X** CLEANER THAN TIER IV ENGINES

### VALUABLE

In the oil and gas industry, operating expenses are aligned with production. High uptime translates to value from maximized production. Flex Energy Solutions help operators avoid delays in production and expensive equipment replacements that result from unexpected losses of power. Increased uptime through fuel tolerance and low maintenance is especially valuable for remote locations.

**LEASE OPTION**  
ALL OF THE BENEFITS OF THE FLEXGRID SOLUTION WITHOUT UP-FRONT CAPITAL EXPENDITURES

**RATES**  
INCLUDE SUPPORT, MONITORING AND SERVICE

**FLEX CARE®**  
SERVICE CONTRACTS COVER PLANNED AND UNPLANNED MAINTENANCE FOR 5 TO 20 YEARS

**TRANSPARENT**  
MONTHLY BILLING PROCESS AND EXCEPTIONAL CUSTOMER SUPPORT

### HIGH UPTIME

Access to power in remote areas is an ongoing problem for the oil and gas industry. Reliable, continuous power at facilities is needed to run artificial lifts, ESPs, transfer pumps, and other equipment. Power from the grid, if available at all, is often unreliable and unpredictable.

**99+% UPTIME**  
PROVEN OVER FOUR MILLION RUNTIME HOURS

**24/7 AVAILABILITY**  
OF OUR EXTENSIVELY TRAINED TECHNICIANS

**80,000 HOURS**  
OF DESIGN LIFE WITH STANDARD OVERHAULS

**VS**

**24,000** RUNNING HOURS

**3 SERVICE CALLS** (FLEXENERGY SOLUTIONS)

**96+ SERVICE CALLS** (COMPETING PRODUCT)



## FLEXGRID FIELD POWER

Designed to power isolated microgrids, the FlexGrid solution deploys modular Flex Turbines to fit remote power site needs. With its wide operating range, paired with embedded controls, each Flex Turbine automatically and actively synchronizes to other units in the FlexGrid. Multiple Flex Turbine units operate seamlessly together to run distributed loads, while sharing and shedding power, and maintaining stable grid conditions 24/7.

Each Flex Turbine unit is packaged with a generator braking resistor (GBR) for deploying reserve power, and to absorb excess power. Distributed pads on the FlexGrid provide constant, consistent, clean power, while the GBRs modulate individual units to follow cyclical, transient, and spike loads on the isolated grid.

When an oil and gas producer expands production and requires more power, additional Flex Turbine units are simply added to the FlexGrid to run the increased load. The GBRs automatically operate to maintain the optimum load on each Flex Turbine, resulting in steady voltage, frequency, and phase angles of production loads.

The FlexGrid solution offers built-in redundancy. If one unit is shut down, the remaining FlexGrid Turbines increase output to effectively carry the load. This FlexGrid design philosophy provides the automatic backup and adjustments needed so the production equipment can operate 24 hours a day, seven days a week, without shutdown.



**CONTACT FLEX ENERGY SOLUTIONS  
TO LEARN ABOUT FLEXIBLE LEASE  
AND PURCHASE OPTIONS TO SUIT YOUR  
POWER DELIVERY AND BUDGET NEEDS.**



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