

# THE BEST, MOST COST EFFECTIVE FIELD POWER AVAILABLE



**FLEXENERGY**  
SOLUTIONS

Flex Energy Solutions is an alternative energy provider of reliable, clean power to commercial and industrial sites throughout the world. Our gas-fired Flex Turbines® are robust, industrial-grade systems that burn clean and enable industrial operations to offset or replace the utility grid.

## THREE DECISIVE REASONS WHY FLEX TURBINES ARE THE #1 OPTION

RimRock Energy recently swapped 21 Tier II 275-400 kW natural gas reciprocating engine generators at one of its North Dakota production sites with 17 250-333 kW Flex Turbines. Despite using fewer units, RimRock is now benefitting many times over from environmental, high-uptime, and low-maintenance advantages - which all boil down to added value in the total cost of ownership. The numbers tell a compelling story.

### 1. ENVIRONMENTAL EFFICIENCY

	NAT GAS RECIPS	FLEX TURBINES	REDUCTION
NOx Emissions	3.88 lbs/MWh	1.15 lbs/MWh	<b>70%</b>
CO Emissions	9.7 lbs/MWh	1.0 lbs/MWh	<b>90%</b>

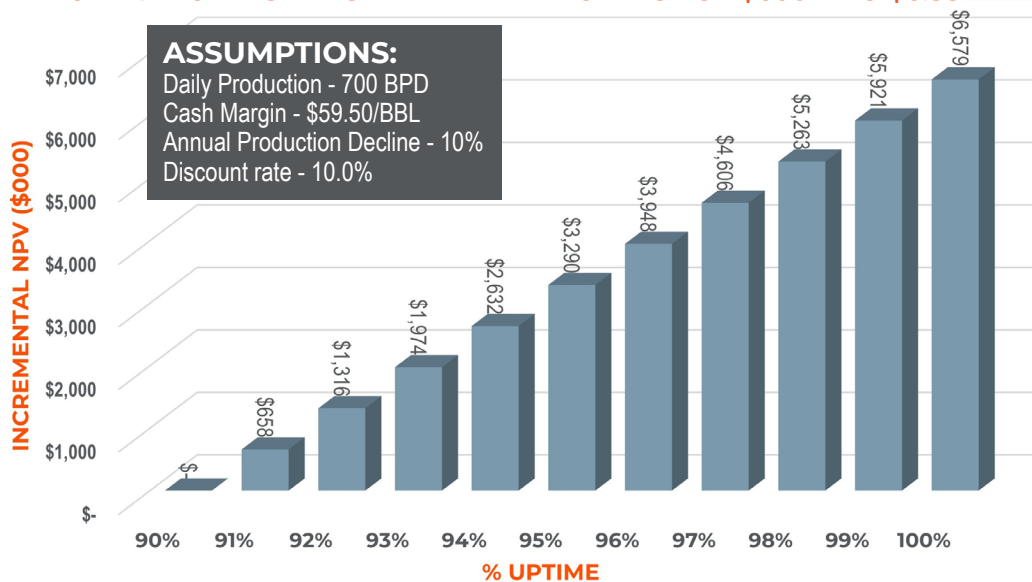
Obtaining reliable power to run lifts, pumps, and other equipment in remote areas is a common oil and gas industry challenge. In shale plays, many operators default to using natural gas or diesel generators to provide power. Not only do these engines emit high levels of greenhouse gases into the atmosphere, but they also depend on persistent fuel delivery. Additional emissions from delivery vehicles then exacerbate the problem. Meanwhile, the industry is being pushed to minimize its environmental footprint by cutting emissions and avoiding flaring and venting. In addition to their low emissions, Flex Turbines are able to directly use problematic site tank vapor gases, which are typically otherwise flared, to generate reliable, clean power. In switching from gas generators to Flex Turbines, RimRock has cut NOx and CO emissions at the site by more than 70%.

### 2. UNBEATABLE UPTIME

Because operating expenses are directly aligned with production, the 99+% uptime that Flex Turbines deliver maximizes production. A 2016 Kimberlite study reported that just 1% of unplanned downtime, (about 88 hours) costs oil and gas producers \$5.037 million annually. But with 99+% consistent Flex Turbine uptime, proven over more than 7 Million run-hours, RimRock will avoid these costly delays.

To demonstrate long-term consistent uptime benefits, depicted below is an example of Net Present Value (NPV), the long-term profitability of a production site over a 10-year period when uptime increases from 90 to 99%.

#### EACH 1% INCREASE IN UPTIME = NPV INCREASE OF \$600 K TO \$6.58 MM





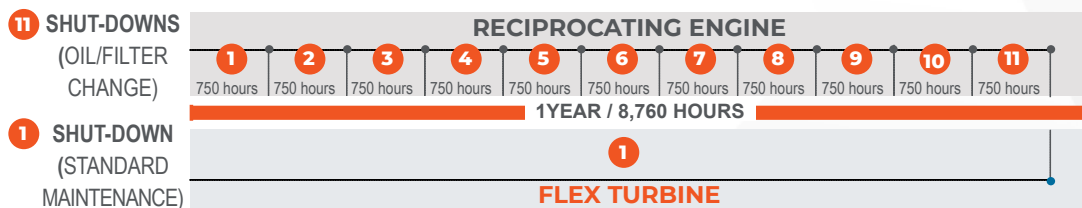
A collection of Flex Turbines on location at the RimRock site

### 3. MAINTENANCE MANAGEMENT

	21 TIER II NAT GAS RECIPS	17 GT333S UNITS	REDUCTION
SERVICE SHUTDOWN	231 per year	17 per year	93%

The standard reciprocating natural gas engines that RimRock was originally using require shutdowns for maintenance every 750 hours for oil and filter changes. That equates to 11 shut-downs per engine over the course of one year. Flex Turbines require just one eight-hour period of scheduled maintenance per year.

24/7 remote monitoring, data collection, and service is included in all of Flex Energy Solutions' lease packages. Flex Care service contracts from 5 to 20 years to cover planned and unplanned maintenance are available for purchased units. Our service maintenance offerings simplify operations and maximize uptime and production for customers, contributing to the Flex Turbine's total cost of ownership value.



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