

REDUCING GREENHOUSE GAS FROM POWER DELIVERY



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.

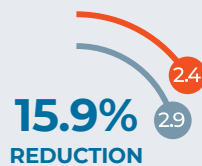
FLEX TURBINES® HELP INDUSTRIES REACH ENVIRONMENTAL AND SUSTAINABILITY GOALS WITHOUT HAVING TO SACRIFICE QUALITY OR BUSINESS OBJECTIVES.

Government economists have estimated that US firms may pay more than \$200 billion per year to comply with policies to move toward a 100% Clean Future by 2050 or earlier. The largest source of greenhouse gas emissions is from burning fossil fuels for electricity, heat, and transportation. Strict limits on greenhouse gas emissions (GHGs) are particularly challenging to heavy industries that rely on significant levels of energy to maintain their operations. Traditional energy sources for these industries, such as diesel and gas engines, combined cycle power plants, and utility grids combined with boilers can be highly polluting and expensive to access and transport – especially to remote locations where some critical operations for heavy industries are located.

Different energy sources emit different amounts of carbon dioxide (CO₂) in relation to the energy they produce when burned. Demonstrated in both grid-parallel environments, such as Commercial and Industrial sectors, and grid-isolated environments, such as the Oil and Gas sector, the charts that follow illustrate the amount of GHGs emitted by traditional energy sources as compared to the emissions from Flex Turbines. The Flex Turbine is clean-burning and generates extremely low emissions and is certified to California Air Resources Board (CARB) Distributed Generation Standard – far below competing options.

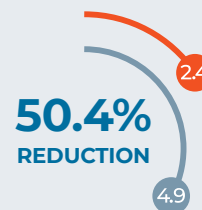
GHG REDUCTION FLEX TURBINE VS UTILITY

Combined Cycle Power Plant + Boiler



ELECTRICAL EFFICIENCY PER 2015 US EIA REPORT. THERMAL OUTPUT ASSUMES 80% EFFICIENCY BOILER

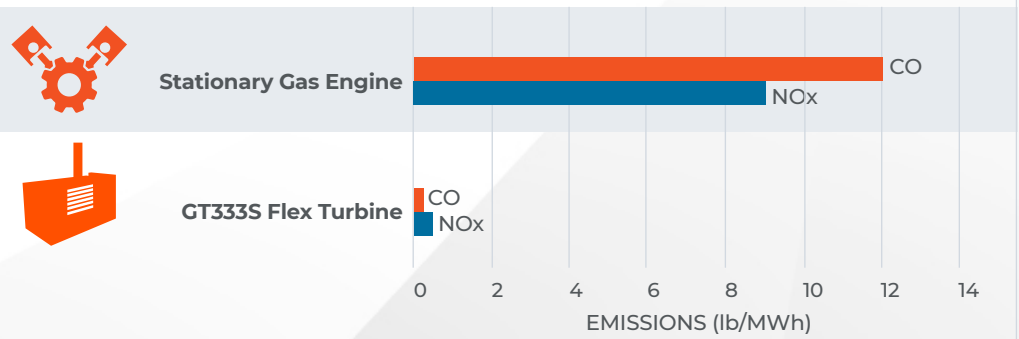
Average US Electricity + Heat Generation



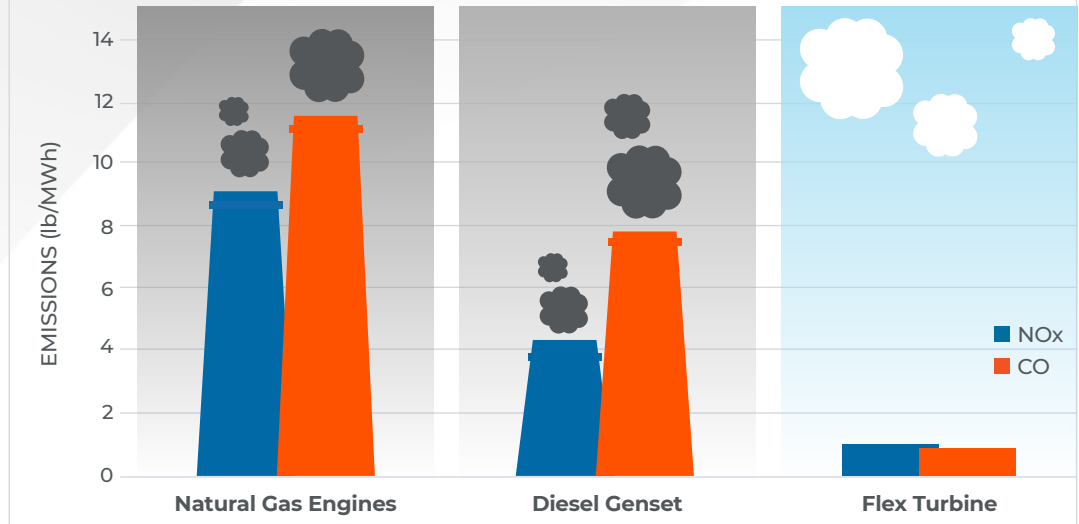
IEA CO₂ EMISSIONS FROM FUEL COMBUSTION

— CURRENT TECH
— FLEX TURBINE
(MM kg CO₂/MW-year)

GAS GENSETS VS FLEX TURBINES - GRID PARALLEL



GAS GENERATOR EMISSIONS VS FLEX TURBINES – OIL & GAS SECTOR



AVOIDED FLARE AND EMISSIONS FROM USE OF FLEX TURBINES

	Aggregate totals from Fleet of 150 Flex Turbines
Avoided Flare Gas (BCF)	4.125
GWh of Prime Power Generated	367.5
Gallons of Diesel Avoided	26,467,159
NOx Tons Avoided from Diesel Elimination	919
CO2 Tons Avoided from Diesel Elimination	270,135
Fuel Truck Trips Avoided <i>(does not include added emissions generated by trucks transporting the fuel, which would multiply this number significantly)</i>	86,115*

*USES ONE FUEL TRUCK TRIP PER 24 HOURS

Flex Energy Solutions' efforts to reduce the carbon footprint of power delivery is driven by our goal of helping industries work toward clean energy and a healthy environment.

What emissions? No exhaust catalyst or chemicals are needed for Flex Turbine power, as are necessary for diesel engines. Use of Flex Turbines avoids excessive emissions from diesel generators themselves, as well as the emissions that result from transporting diesel fuel over longer distances.

Snare the flare. Flex Turbines can convert flare gas and tank vapors to electricity, thereby helping producers comply with environmental regulations and state mandates.

Clean energy future. With their extremely wide fuel tolerance, Flex Turbines can efficiently use renewable, carbon neutral biofuels, and even synthetic methane to generate power for 100% carbon-neutral power.

FOR MORE INFORMATION PLEASE VISIT flexenergy.com