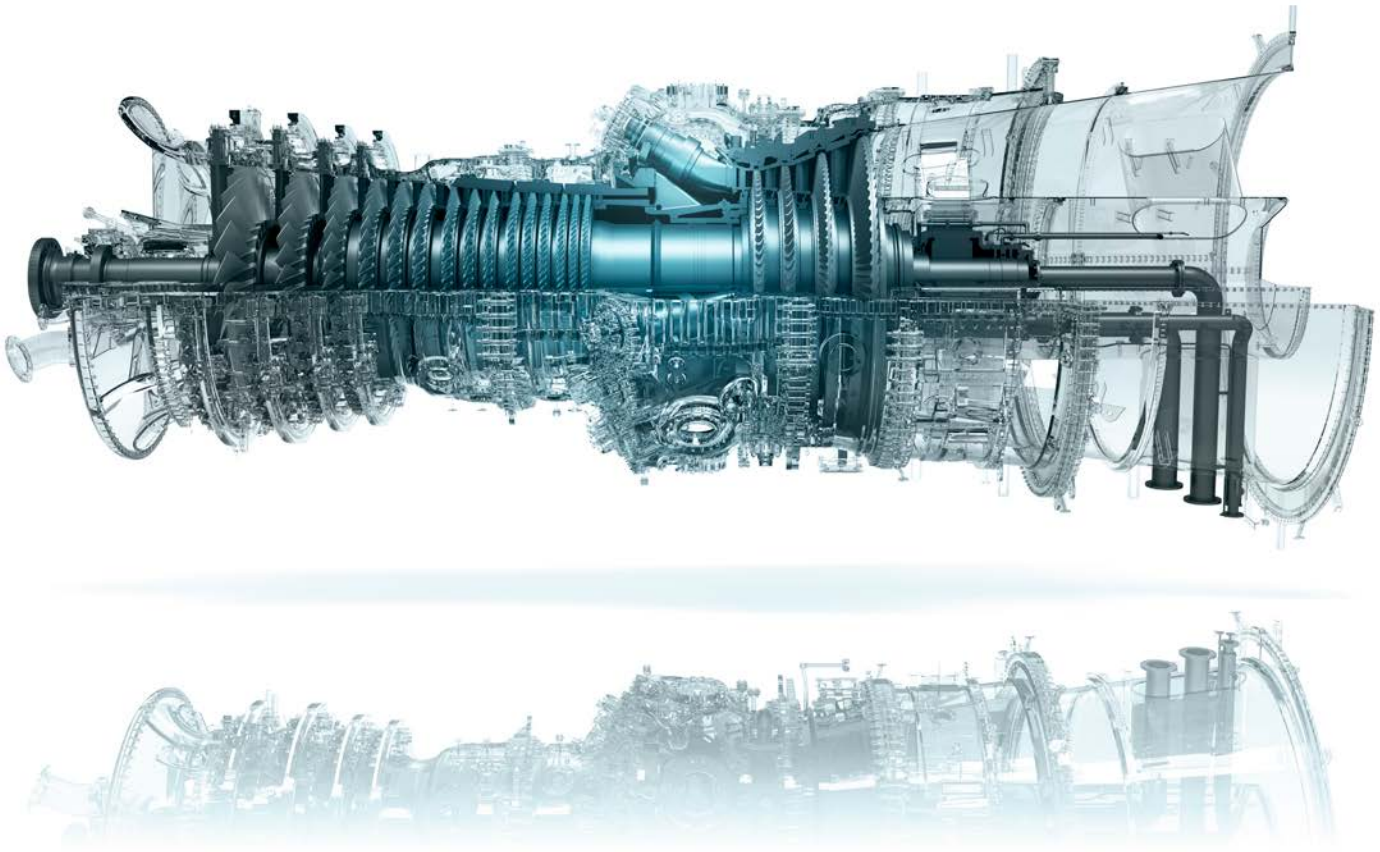
MITSUBISHI POWER

POWERING THE NEXT GENERATION, WITH GREEN HYDROGEN



MOVE THE WORLD FORWARD

MITSUBISHI HEAVY INDUSTRIES GROUP

MITSUBISHI POWER HAS BEEN A LEADER IN HYDROGEN FUELED GAS TURBINES FOR ALMOST 50 YEARS

Green hydrogen can decarbonize power generation.

HYDROGEN FUELED GAS TURBINES OFFER ENORMOUS POTENTIAL FOR THE FUTURE OF POWER.

As the provider of the world's most efficient gas turbines operating today, Mitsubishi Power leads the way in technology and reliability. Recent hydrogen fuel tests on large-scale Mitsubishi Power Advanced Class Gas Turbines have been successful and represent an important step toward 100% hydrogen fueled power.

With Mitsubishi Power partnership, customers can diversify their energy portfolio without sacrificing power reliability—eventually producing electricity with zero carbon dioxide emissions. As the industry moves from natural gas toward hydrogen power, current Mitsubishi Power turbines, with minimal modifications, will be upgraded to utilize this new fuel. For operators that require environmentally friendly power solutions and a future-proof investment, Mitsubishi Power Advanced Class Gas Turbines are the answer.

CLEAN ENERGY WITH ZERO CARBON

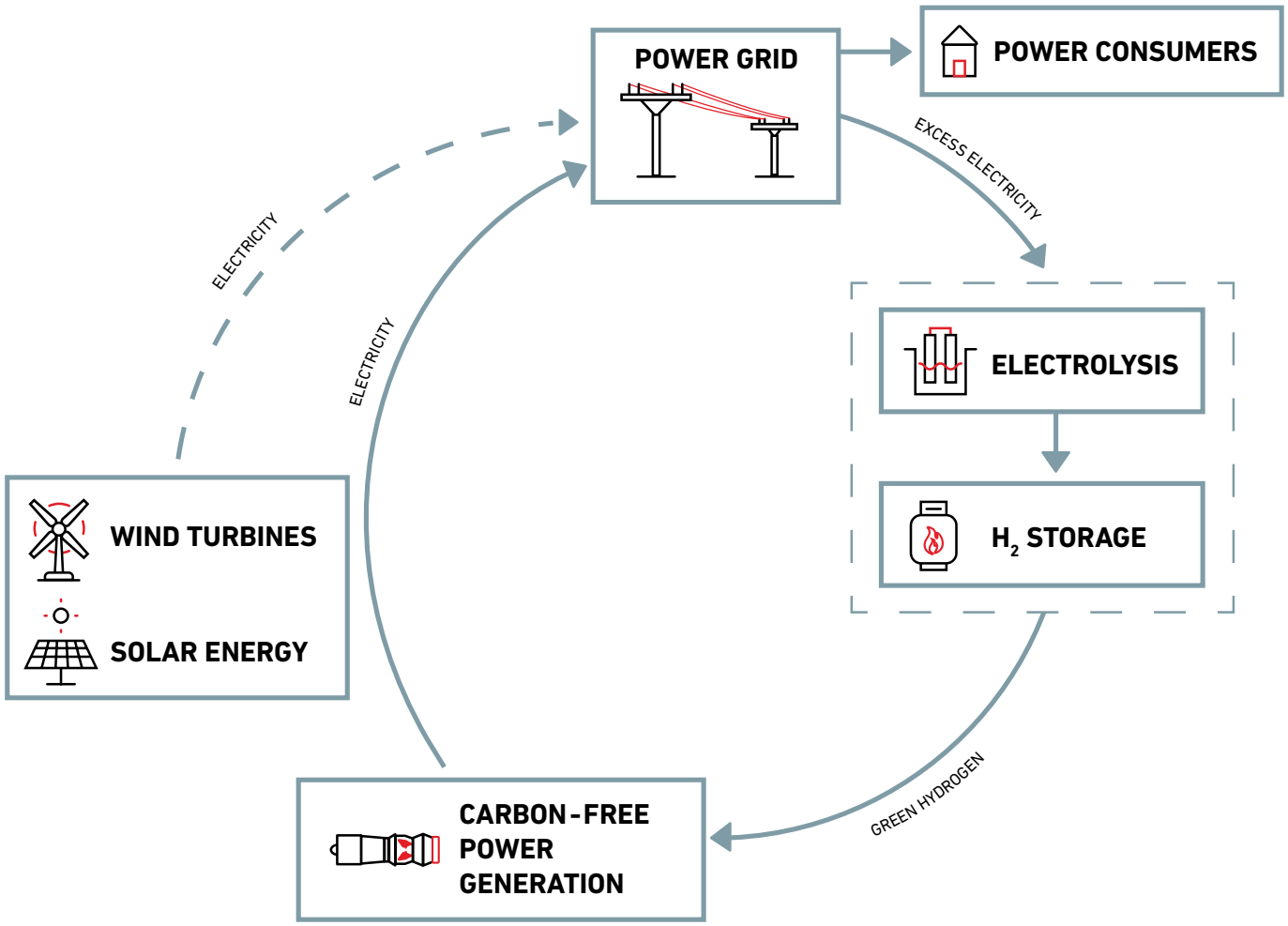
Excess electricity from solar, wind, and other renewable energy sources can be used to create green hydrogen through electrolysis, splitting hydrogen from oxygen. The resulting hydrogen can then be stored for future use. With 100% hydrogen fuel, customers can operate efficiently—with zero carbon emissions.

HARNESSING GREEN HYDROGEN

Renewable energy sources have low operating costs, but require certain capacity factors to pay back their capital cost. Meanwhile, seasonal and even daily weather changes can affect supply and demand. This chart shows how using excess electricity from renewables to power electrolysis creates a storage bank of hydrogen that can be used as fuel for low-cost, clean, and dispatchable power generation.

A Renewable Energy System

How renewable energy sources can create hydrogen and cleaner dispatchable power generation.



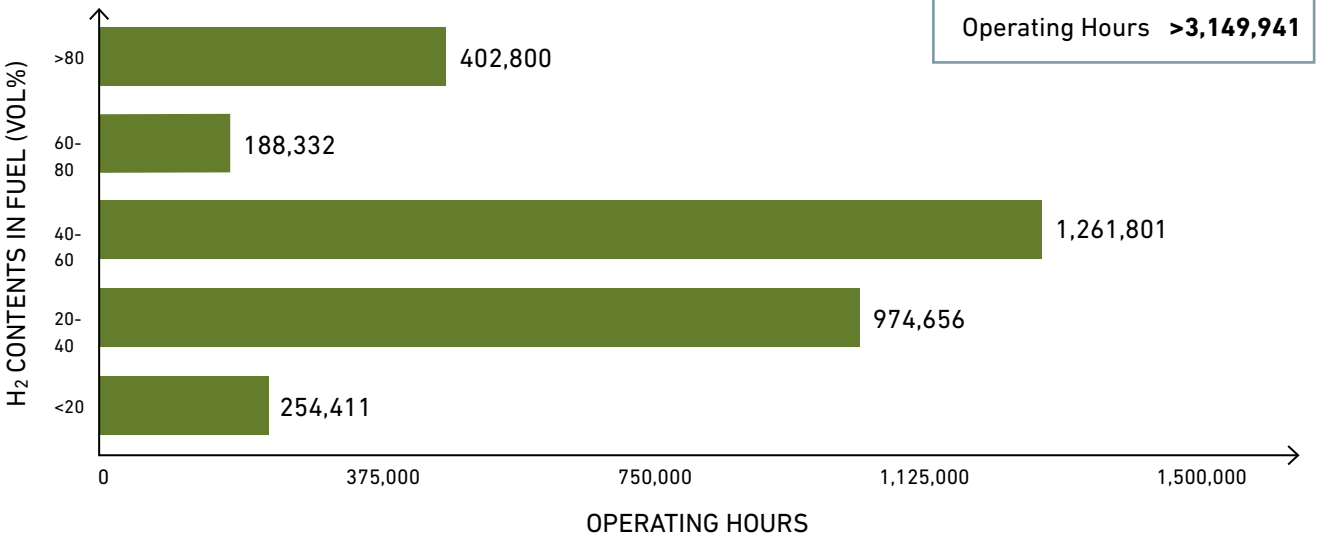
3 MILLION+ OPERATING HOURS WITH HYDROGEN

As energy companies turn to hydrogen, Mitsubishi Power has extensive hydrogen firing experience that dates back nearly 50 years and includes refineries, Syngas and COG (Coke Oven Gas) locations. Our experience with 29 power plants uses fuel with up to 90% hydrogen content and has accumulated over 3 millions hours of operation.

Mitsubishi Power Hydrogen Turbine Experience

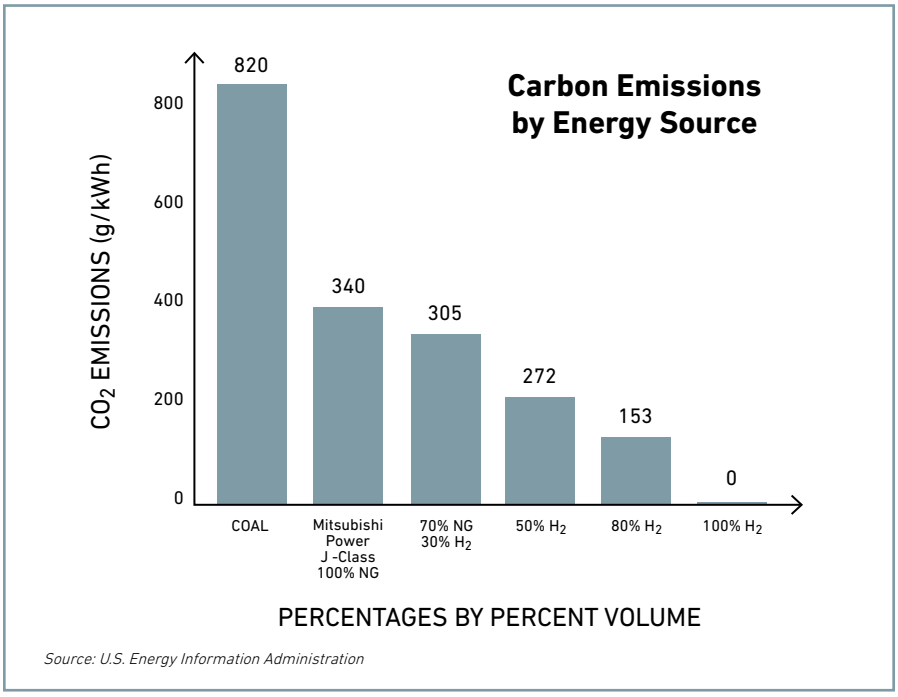
A breakdown of Mitsubishi Power turbine operating hours by percentage of hydrogen fuel content.

Units	**29**
Operating Hours	**>3,149,941**



THE ROAD TO CLEAN ENERGY

The true promise of green hydrogen is how it will reduce the carbon footprint of power generation. Mitsubishi Power turbines using hydrogen fuel mixtures can make an enormous difference in overall carbon emissions—preparing us for a carbon-free future. As more companies adopt this carbon-cutting technology, they'll create power more efficiently and decrease their environmental impact.



Source: U.S. Energy Information Administration

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Mitsubishi Power Americas, Inc.
www.changeinpower.com
407-688-6100

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