



JBS On Demand Green Hydrogen Fact Sheet

JBS On Demand Green Hydrogen system's high efficiency helps reduce operating costs, plant emissions, and reliance on third party fuel supply contracts. With the capability to convert multi fuel types to green hydrogen – ON DEMAND - the system delivers performance with low (or zero) emissions in a variety of situations and water availability scenarios. It features high reliability with control system redundancy, along with multiple options for configuration, making it a great choice for customers who need a sustainable emission reducing source of fuel

GE LM 2500 gas turbine testing produced a 99.9% reduction in emissions.

Benefits:

31% to 78% emission reduction (99.9% during test)

New models use geofuels – no fossil fuels

Clean energy source

Increased thermal efficiency

Lower exhaust temperatures

Reduced fuel cost

Longer component life, less maintenance

Significant reduction in carbon footprint

Patented process accompanied by rare earth crystal catalysts producing super fuel

Features:

Patented rare earth

Combines rare earth nano to produce hydrogen

Multi fuel hydrogen conversion

Internal combustion engine and gas turbine conversion

Fast track installation

Global turnkey support with O & M contracts

Applications:

Ship propulsion systems

Power generation onshore & offshore

Mechanical drive

Diesel gensets

Boilers, industrial heating plant

Propulsion systems for electric trains

Business as usual is no longer an option because society has to move faster towards a net-zero future. Climate change presents a fundamental challenge to society. It is a shared challenge, and every industry must play an important role. JBS on demand green hydrogen solution is a world first. Our patented system provides a best in class, new to market solution to lead the world in energy transition.

Net zero by 2050 is the target, converting to on demand green hydrogen can help you reach net zero faster while providing an interim step change quickly.

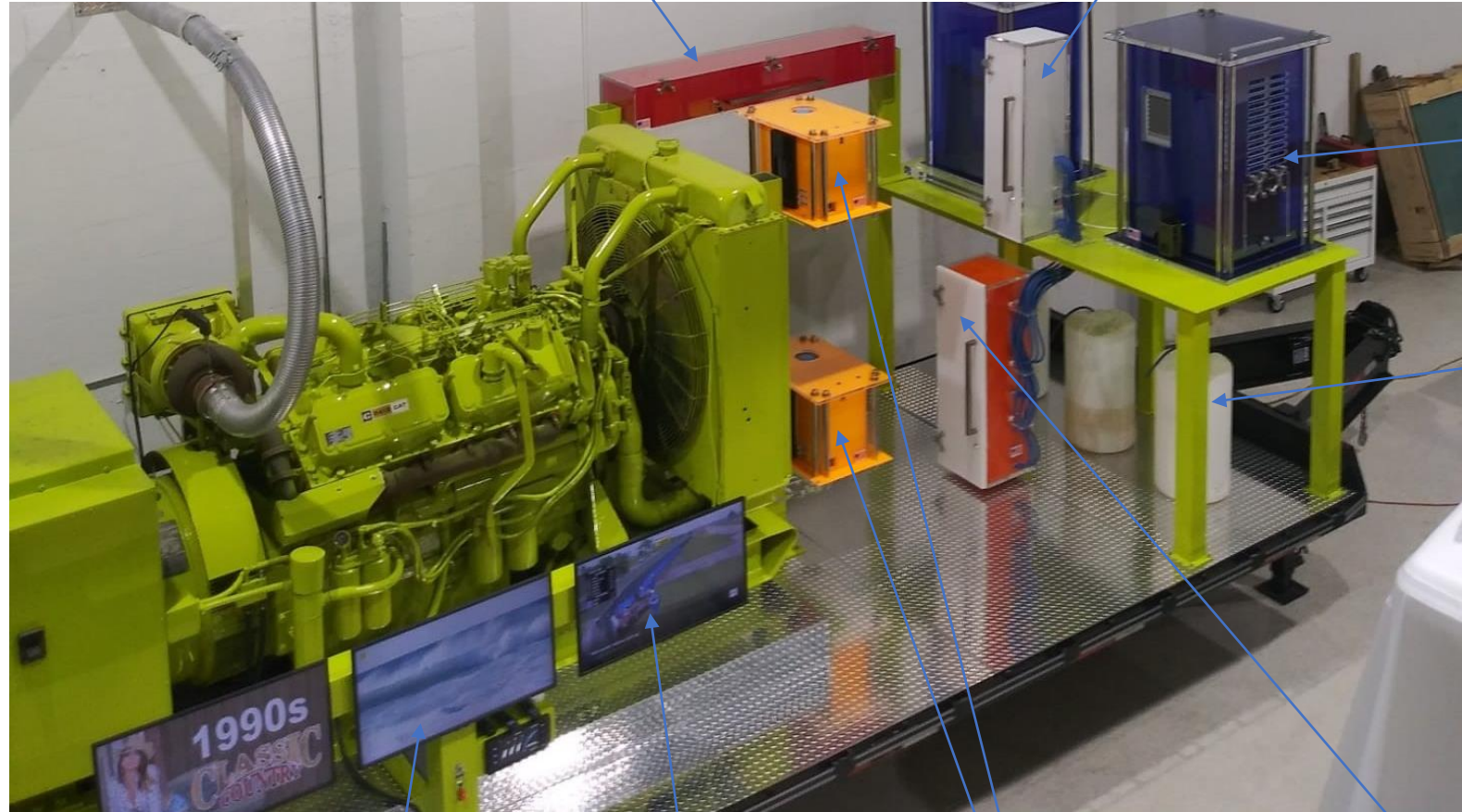
Hydrogen is the most abundant chemical element in the universe. It is a clean energy source that only emits water vapour and leaves no residue in the air unlike coal and oil.

JBS have a demonstration unit available in our state of the art manufacturing facility in Ft. Lauderdale Florida.

System overview



Reactor control panel



Proprietary control system & nano super critical fuel scrubber

Air to water reactor

Rare earth crystal fuels mixed in a liquid state

Ioniser

Manufactured super fuel

CO2 & Emissions Control

Engine Operations

Hydrogen Manufacturing

Hydrogen & Ammonia Reactors

Pressurising reactor & electrolyser turning liquid crystals & H2O into a gaseous state