



SMARTER MINING CLEANER OPERATIONS

Hydrogen-on-Demand Retrofit Technology
for Mining Applications

BRIDGE TECHNOLOGY FOR EXISTING DIESEL ASSETS IN MINING

HydraGEN™ safely introduces hydrogen and oxygen on demand into the engine air intake to enhance combustion - improving efficiency and reducing emissions without changing your infrastructure.



NO HYDROGEN STORAGE

No high-pressure tanks.
No handling risk.



EASY RETROFIT

Installs in hours.
Minimal downtime.
No engine modifications.



NO FUEL INFRASTRUCTURE CHANGE

Works with existing
diesel fuel systems.



SAFE & RELIABLE

Integrated controls &
monitoring for continuous
operation.



SCALABLE SOLUTION

From single units
to entire mining fleets.



ENGINEERED FOR SAFETY. BUILT FOR RELIABILITY.

Advanced ECU, redundant sensors and automated safety functions ensure reliable performance in the toughest mining environments.

POWERING A WIDE RANGE OF MINING APPLICATIONS



HAUL
TRUCKS



LOADERS &
SHOVELS



DRILL
RIGS



EXCAVATORS



BULLDOZERS

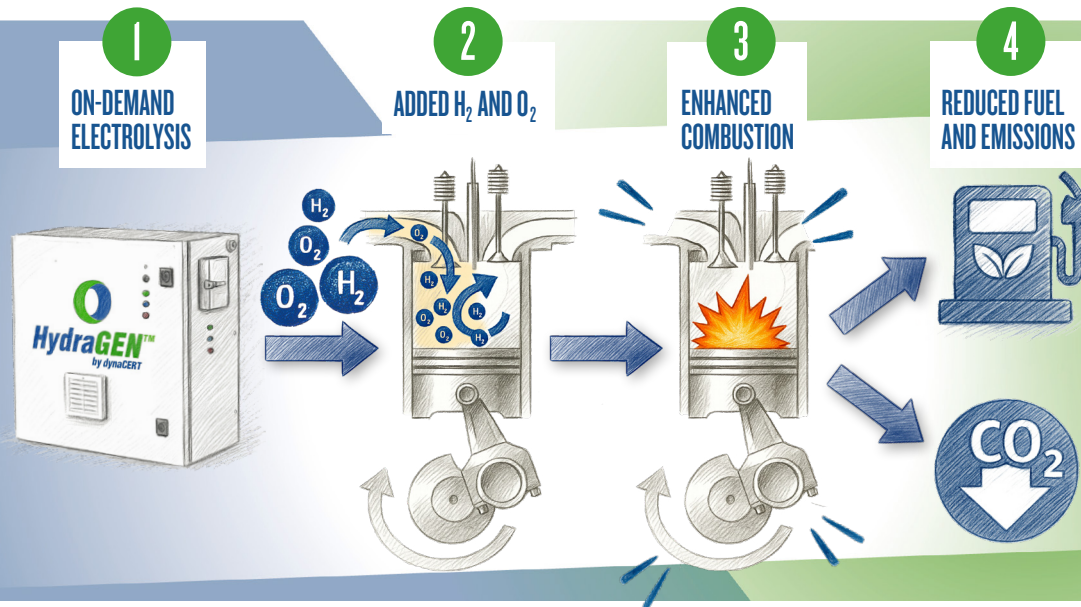


GENERATION
SETS



WATER PUMPS
& SUPPORT
EQUIPMENT

HOW HYDRAGEN™ WORKS – THE HYDROGEN ADVANTAGE



WHY MINING OPERATORS CHOOSE HYDRAGEN™

- ✓ Improves fuel efficiency across a wide range of equipment and application*
- ✓ Works with diesel, biodiesel and emulsified fuel mixtures
- ✓ Reduces engine-out emissions (CO₂, NO_x, PM, CO, HC) and supports ESG targets*
- ✓ Designed for harsh environments – dust, vibration, heat
- ✓ Extends equipment life and lowers maintenance*
- ✓ Carbon credit readiness through verified methodologies*
- ✓ Proven technology in real-world mining operations

*Results depend on project-specific factors and applicable methodologies.



TRUSTED. PROVEN. GLOBAL.

dynaCERT has successfully deployed HydraGEN™ technology in mining operations around the world. Our technology is backed by independent testing and a growing base of satisfied customers.



SCALABLE SOLUTIONS FOR EVERY POWER NEED



HG1R Series

10 - 15 l Diesel Engines



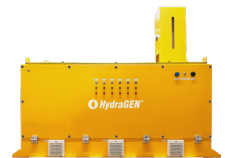
HG2R Series

1 - 8 l Diesel Engines



HG4C Series

30 - 60 l Diesel Engines



HG6C Series

60 - 90 l Diesel Engines

PROJECT INTEGRATION – SIMPLE AND STRUCTURED



1. ASSESSMENT

Analyze your assets and operating profile.



2. ENGINEERING

System design and integration planning.



3. INSTALLATION

Fast installation with minimal operational impact.



4. COMMISSIONING

System test and performance verification.



5. OPERATION

Continuous monitoring and optimization.

ONE TECHNOLOGY. MULTIPLE BENEFITS. NO COMPLEXITY.



NO HYDROGEN STORAGE



NO FUEL INFRASTRUCTURE CHANGE



SAFE & AUTOMATED OPERATION



RETROFIT & SCALABLE



PROJECT-BASED APPROACH



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LET'S TALK
Scan to connect with our team.



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