



SMARTER DIESEL CLEANER PORTS

Hydrogen-on-Demand Retrofit
Technology for Port Operations

BRIDGE TECHNOLOGY FOR EXISTING DIESEL ASSETS

HydraGEN™ safely introduces hydrogen and oxygen on demand into the engine air intake to enhance combustion – improving efficiency, reducing emissions and extending asset life in port.



NO HYDROGEN STORAGE

No high-pressure tanks.
No handling risk.
No additional
infrastructure.



EASY RETROFIT

Installs in hours.
Minimal downtime.
No engine
modifications.



NO FUEL INFRASTRUCTURE CHANGE

Works with
existing diesel
systems.



SAFE & RELIABLE

Integrated controls
& monitoring for
continuous
operation.



SCALABLE SOLUTION

From single ports
to large port
fleets.



ENGINEERED FOR UPTIME. BUILT FOR RELIABILITY.

Advanced ECU, redundant sensors and automated safety functions ensure reliable performance in wheeled and marine port operations.

IDEAL FOR PORT APPLICATIONS



CONTAINER CRANES
(STS, RTG, RMG)



FORKLIFTS &
TERMINAL TRACTORS



AUXILIARY
GENERATORS

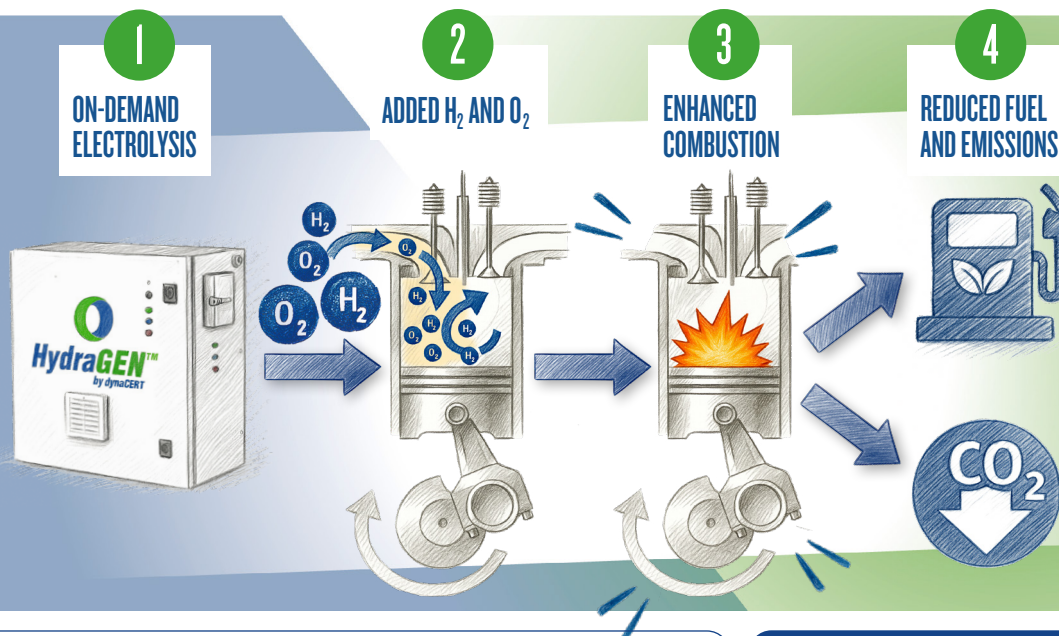


YARD & REEFER
EQUIPMENT



HARBOUR CRAFT &
SERVICES VESSELS

HOW HYDRAGEN™ WORKS – THE HYDROGEN ADVANTAGE



WHY PORT OPERATORS CHOOSE HYDRAGEN™

- ✓ Improves fuel efficiency and reduces operating costs*
- ✓ Reduces fuel consumption*
- ✓ Reduces emissions (CO₂, NO_x, PM, CO, HC) and supports ESG goals*
- ✓ No impact on engine reliability or performance
- ✓ Minimal downtime – installation during regular maintenance
- ✓ Works with existing diesel and biodiesel blends (B20 ready)
- ✓ Low maintenance and long service life
- ✓ Proven technology in real-world port operations

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



TRUSTED. PROVEN. GLOBAL.

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



SCALABLE SOLUTIONS FOR EVERY APPLICATION



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 HYDROGEN STORAGE



NO FUEL INFRASTRUCTURE CHANGE



SAFE & AUTOMATED OPERATION



RETROFIT & SCALABLE



PROJECT-BASED APPROACH



CORPORATE OFFICE
dynaCERT Inc.
101-501 Alliance Ave.
Toronto, ON M6N 2J1, Canada
T: +1 416-766-9691
E: sales@dynacert.com

EUROPEAN OFFICE
dynaCERT GmbH
Terminalstrasse Mitte 18
85356 Munich, Germany
T: +49 89 9700 7015
E: sales@dynacert.com

LET'S TALK
Scan to connect with our team.



dynacert.com