

Hydrogen Solutions for Industrial Test Facilities



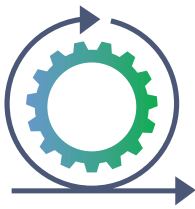
Step into the **future** with our test systems
for **hydrogen-powered** propulsion

Leading the Transition to a **Low Carbon** Future

As the gas turbine industry continues to evolve, MDS is leading the way in the transition to sustainable low-carbon fuels such as hydrogen. With our advanced knowledge and over 40 years of experience in gas turbine testing, we are committed to supporting OEMs by providing reliable and innovative test solutions.

EMISSIONS REDUCTION

FUEL FLEXIBILITY



Retrofit existing test facilities to accommodate hydrogen fuel



Develop new, **greenfield** test facilities designed specifically for hydrogen applications



Ensure the **safe** integration of hydrogen fuel into the industrial sector

What can **we do** for you?

When it comes to upgrading to Hydrogen fuel test capability, our customers look to MDS. Be it a greenfield site or the conversion of existing facilities, we have the experience and expertise. Our team understands the impact of hydrogen on test right from big picture up front business planning, right down to the final details on commissioning. In the beginning, our business team will work with you to engineer a technical solution that is commercially viable and ensures commercial outlay matches your product development. From there we move to design, procurement, and construction. We have the in-house expertise to fully engineer every aspect of the project, and we have a well-developed supply chain for equipment supply and construction. We provide a high value turnkey experience.

Safe Integration of **Hydrogen Fuel** for Ground Test

Business Case Management >	High Level Safety Engineering >	Plant Layout >	Hydrogen Operational Considerations
Concept generation H ₂ supply contracting strategies Preliminary equipment sizing Class D estimating	Code study Risk assessments Hazardous area, gas dispersion, and blast assessments Process Flow Diagrams Fire & Gas detector layout	Code compliance Equipment sizing, selection, and their safe layout Hazardous area electrical design Safety control systems Material selection and piping design Structural design for blast loads	Procurement Site integration and construction Facility start-up Product support manuals





GAS TURBINE
ENGINE
SOLUTIONS

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