

HYDROGEN CAPABILITIES

Matrix PDM Engineering provides comprehensive engineering solutions that fit a wide range of unique customer needs and priorities. We are a single streamlined solution provider, serving customers across the globe.

Safety. Integrity. Positive relationships. Stewardship. Delivering the best. These core values have forged our reputation for excellence



A HIGHER STANDARD IN ENGINEERING

PROVIDING EXPERTISE START TO FINISH

Leveraging our 65 years of legacy expertise in the engineering and design of cryogenic infrastructure, our industry-leading subject matter experts have experience in multiple engineered sphere products, specialty vessels, and steel plate structures. Matrix is well-positioned and experienced to be your engineering partner in the realization of a carbonless energy source: hydrogen (H₂).

We provide unrivaled expertise in cryogenic engineering and technologies, and team with construction partners to provide complete solutions for customers that seek storage and terminal solutions to support their hydrogen projects. In North America, our subsidiaries Matrix NAC and Matrix Service typically complete construction; abroad, we partner with equally revered construction companies.

Hydrogen has unique properties: it is a very light product that must be cooled to cryogenic temperatures approaching absolute zero to be stored as a liquid. Hydrogen has its challenges: it's the smallest molecule to contain.

Our proven track record in hydrogen storage includes our most recent commissioned project where Matrix PDM provided engineering services for the first hydrogen sphere to have been built in the U.S. in the previous 20 years.

We are currently completing engineering studies for cryogenic hydrogen spheres that will be more than twice the size of any hydrogen sphere previously built.

Hydrogen services

- Conceptual design and feasibility studies
- Front End Engineering and Design (FEED)
- Detailed design
- Engineering, procurement, and construction engineering support
- Partner with cryogenic experienced Matrix construction subsidiaries Matrix Service and Matrix NAC domestically or with established international partners that have sphere and cryogenic experience
- Integrator of production, liquefaction, and fueling technologies



For more information
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