



TOTAL HYDROGEN SOLUTIONS, a division of Pneumatic and Hydraulic Company, is a leader in end-to-end hydrogen integration solutions. From concept and design, to installation, maintenance, and repair, we provide a full spectrum of hydrogen integration solutions. Our solutions cover hydrogen creation and generation, compression and transfer systems, refueling stations, and hydrogen electrification systems, customized to meet diverse needs.

With decades of expertise and partnerships with leading hydrogen companies, we are able to provide innovative and customized solutions for specific customer requirements and applications. By leveraging our clean alternative solutions, together, we are able to decarbonize the energy sector and drive sustainability.

Why Total Hydrogen Solutions?



- ✓ In-house expertise
- ✓ Industry leading partnerships
- ✓ Client-centered approach



- ✓ Over \$10 million in inventory
- ✓ Excellent lead times
- ✓ Extensive service area



- ✓ Lifecycle expertise
- ✓ Proactive enhancement
- ✓ Future-ready solutions

We are shaping the future of hydrogen energy.



TotalHydrogen.com



HOUSTON, TX
 20500 Clay Center Drive
 Katy, TX 77449
 Ph: 713-681-5211



**CONNECT WITH US
 ON LINKEDIN**



65+ years
 in business as a trusted
 distributor and integrator



A DIVISION OF PNEUMATIC AND HYDRAULIC COMPANY, LLC

END-TO-END HYDROGEN INTEGRATION SOLUTIONS

PRODUCTION

COMPRESSION & DISPENSING

REFUELING

POWER GENERATION





HYDROGEN PRODUCTION

We provide hydrogen generation solutions, enabling a clean and efficient alternative to conventional fuels. By leveraging cutting-edge technologies and strategic partnerships, we deliver tailored solutions that meet the diverse needs of various sectors.

Electrolyzers

We have partnered with manufacturers to provide alkaline, AEM, PEM, and SOEC electrolyzer solutions. We provide packaging, balance of plant integration, commissioning, and service. Ranging from water treatment, power distribution (transformers, AC-DC, DC-DC, and custom switchgear) to chilling, containerization and more.

Reforming and Pyrolysis

At Total Hydrogen Solutions (THS), our deep experience in the hydrogen industry has positioned us to form strategic partnerships with leaders in cutting-edge hydrogen generation technologies. Through these collaborations, we're able to offer state-of-the-art solutions such as Steam Methane Reforming (SMR) and advanced pyrolysis systems. These technologies enable efficient, scalable hydrogen production tailored to the evolving needs of industrial, transportation, and energy markets—backed by our trusted expertise and commitment to innovation.

OEM Support and Turnkey Systems

Our distribution network and service teams allow us to be the perfect partner for hydrogen production OEMs. We can lower costs and supply chain constraints on your system components, provide packaging and integration services, and provide service work to keep your systems maintained in the field.



COMPREHENSIVE HYDROGEN ENERGY SYSTEMS PARTNER

HYDROGEN COMPRESSION AND DISPENSING

Total Hydrogen Solutions delivers fully integrated custom hydrogen compression and dispensing systems, engineered for reliability, safety, and performance. Whether you're fueling a small fleet or scaling to commercial throughput, our modular systems are designed to meet evolving demand with precision and speed.

With successful deployments in high-demand environments—including projects for many of the Fortune 500 in aerospace, transportation, and the Department of Defense—we bring deep expertise in system integration, pressure management, and refueling protocols. Our solutions cover high-pressure compression, storage, chilling, and SAE J2601-compliant dispensing. Backed by a robust supply chain, we ensure rapid lead times, consistent quality, and seamless field support.

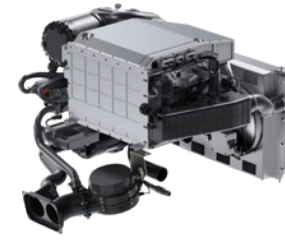


HYDROGEN POWER

Total Hydrogen Solutions is pioneering the future of clean energy with leading hydrogen fuel cell technology, transforming power sources for vehicles and machinery. Our expertise in storage (gaseous and solid), fuel cell and battery integration, EV charging, and containerization, enables us to provide solutions for FC backup power, hydrogen for electrification and hydrogen blending.



Honda Fuel Cell



Intelligent Energy Fuel Cell

HYDROGEN REFUELING

Total Hydrogen Solutions is revolutionizing clean transportation with our comprehensive hydrogen refueling and dispensing solutions, delivered by mobile and permanent stations. Our systems are designed to support the rapid adoption of hydrogen-powered vehicles, offering efficient refueling, robust storage, and precise dispensing capabilities.

Mobile Hydrogen Refueling

Available for purchase or rental

We provide trailer mounted mobile hydrogen refueling stations for temporary or backup applications. Standard solutions are available for rent (H35 and H70 with fast filling) and custom solutions are available for purchase.

We provide solutions with compression onboard, or fully self-powered cascade refueling systems. We also provide methanol-to-hydrogen mobile refueling systems for flexible feedstock where gaseous/liquid hydrogen isn't available.



Stationary Refueling

We provide complete turnkey hydrogen refueling solutions to fit your exact needs. A few of our solutions include:

- **Hydrogen refueling stations:** Ideal for large fleets, this station can deliver 4,000+ kg of hydrogen per day and can support 350 and 700 bar fueling.
- **Small scale hydrogen refueling stations:** Suitable for small fleets, this station can compress 80 kg per day and has a dual dispensing option of 350 or 700 bar. Optional onsite hydrogen generation can be completed through electrolysis or reforming.
- **Liquid hydrogen refueling stations:** We integrate storage, pumping, vaporization, precise dispensing, and smart controls for reliable liquid hydrogen infrastructure.

