

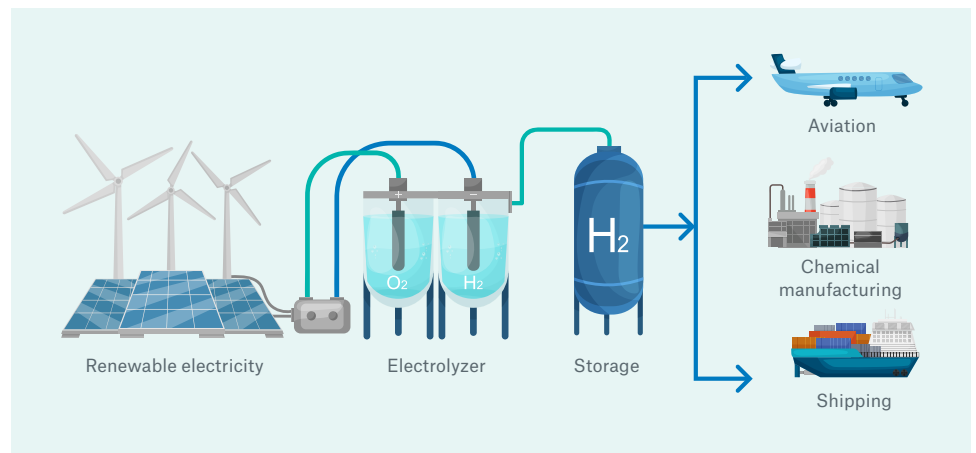
Hydrogen services

HSB, a Munich Re company, is a technology-driven company built on a foundation of specialty insurance, engineering, and technology, all working together to drive innovation in a modern world.

In a hydrogen economy, hydrogen would be used in place of the fossil fuels that currently provide four-fifths of the world's energy supply and emit the bulk of global greenhouse gas emissions. ASME has had standards used to design and manufacture hydrogen vessels for many years, including vessels for hydrogen storage and transportation. HSB offers over 150 years of safety inspection experience and extensive ASME Codes and Standards experience and customers' Third Party Inspection requirements.

Benefits of hydrogen

- 100% renewable resource
- Storable and transportable
- Carbon-free source of energy
- Clean energy that only emits water vapor
- Hydrogen energy is non-toxic and reduces pollution



HSB can service your needs at every stage of the hydrogen life cycle

Production

- Grey (high carbon)
- Blue (low carbon)
- Green (renewable)

Storage

- Compressed
- Liquid
- Solid

Transport

- Liquefied
- Gaseous

Distribution

- Public roads
- Private/port sites
- Multi-use pipelines

Authorized Inspection Agency

HSB is the world's largest Authorized Inspection Agency (AIA) accredited by the American Society of Mechanical Engineers (ASME).

We invest in the pressure equipment industry with the development of inspection requirements while maintaining one of the largest global inspection workforces. HSB's experienced engineers and inspectors around the world allow us to cost-effectively serve the pressure equipment industry's adoption of hydrogen processing equipment.

HSB utilizes our extensive knowledge of the ASME Codes and Standards, quality program development, surveillance activity, and many international codes to answer difficult problems that helps you save time and money.

Services

Experience: HSB brings together our unique understanding of different Codes and Standards and extensive work with standards development organizations to advance meaningful and effective safety inspections for new pressure equipment applications.

Global staff: HSB has permanent, experienced engineers and inspectors located globally to support inspection and surveillance efforts with developing standards and standards interpretations. With local representation and jurisdictional experience, we provide virtually every aspect of pressure equipment inspection and certification globally.

Client focus: HSB ensures that the delivered services meet clients' needs and requirements. Our engineers have extensive experience gained from over 150 years of inspections, support, and design services.

Digital services: Exclusive access to the Front Door customer portal, which includes:

- Extensive digital databases of ASME Code synopses and Code cases dating back to the 1970s
- On-demand viewing of ongoing inspections, hydrostatic testing, stamping status, and completed data reports
- Answers to the most challenging Code questions from our senior staff through Ask Codes and Standards

Customized training: HSB offers a variety of custom training seminars to help clients use the ASME Codes and Standards effectively and competitively. We show clients how to apply the Code to an existing process, while minimizing impact on production.

The hydrogen industry is gaining ground as a clean and carbon-free source of energy. You can trust in HSB to be the solution to your Third Party Inspection needs and at every stage of the hydrogen life cycle process.

For more information, contact GetInfo@hsb.com.