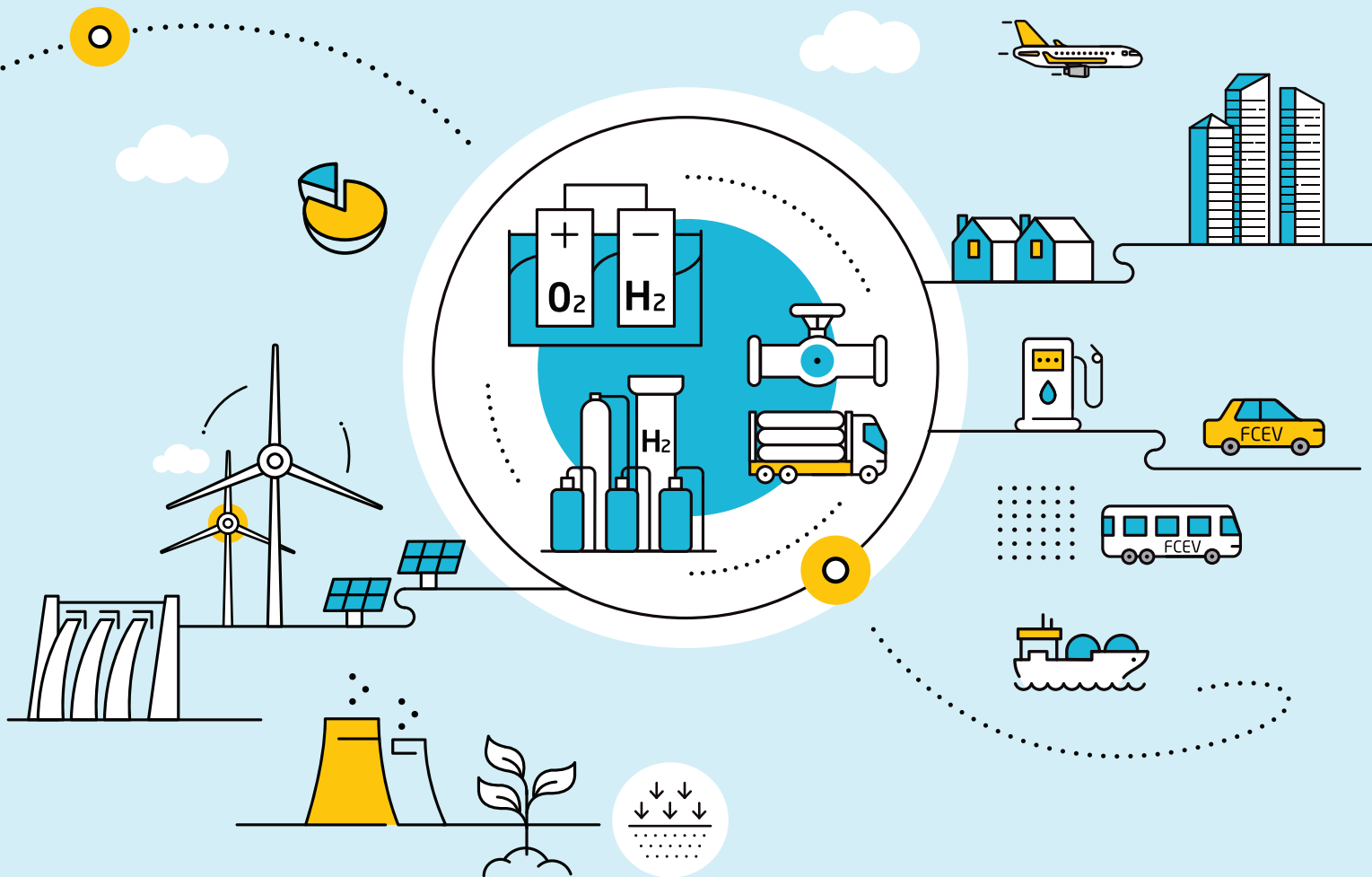


INTERTEK HYDROGEN SOLUTIONS

Safely into the Future





Creating a cleaner future

Why Intertek Hydrogen

Intertek Hydrogen provides customers with access to our unmatched expertise, pioneering energy innovations and global end-to-end risk-based quality, safety, and sustainability solutions that help them advance the hydrogen sector, successfully develop and execute hydrogen-based projects and create viable ecosystems all while overcoming safety challenges and increasingly complex regulatory requirements throughout the entire hydrogen value chain.

- Total end-to-end quality, safety and sustainability solutions for the entire hydrogen industry lifecycle
- Extensive global network of trusted experts and risk-mitigating technical services
- Leadership in pioneering innovation and Assurance, Testing, Inspection and Certification services
- Long-standing history in the energy industry and unwavering support for global companies as they navigate the energy transition

Hydrogen: An Essential Element

Hydrogen is increasingly viewed as a leading energy transition fuel providing a way to decarbonize industries and support greater efficiency within renewable energy sectors.

As the global hydrogen industry expands and develops, the safety and regulatory challenges facing commercialization of this technology become more critical for our customers.

Increasingly complex and time-sensitive projects offer an opportunity for customers to integrate their technologies and solutions throughout the entire hydrogen supply-chain from the early stages of front-end engineering, to production, delivery, storage, end-use, certification and beyond.

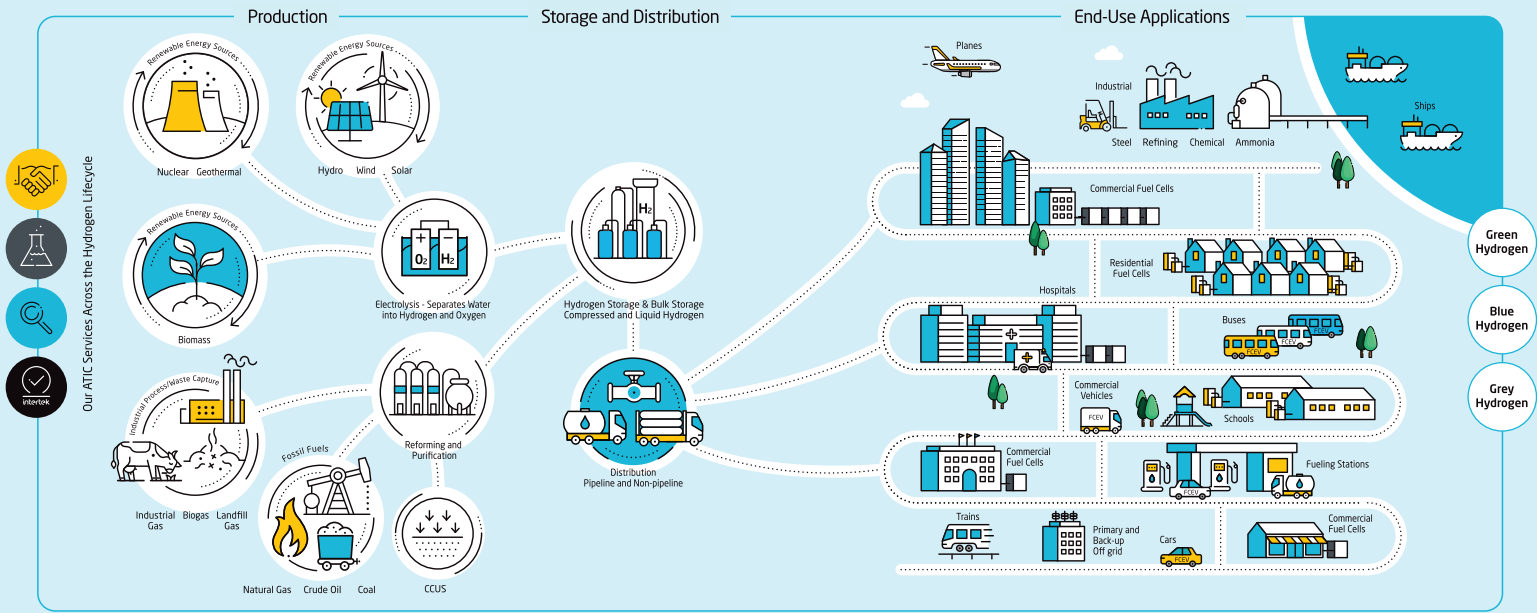
Research suggests that the hydrogen market could reach \$250B by 2030 and exceed \$1T by 2050.

This potential investment has also spurred policy and over 30 countries are developing hydrogen strategies and roadmaps.

Companies want to work with partners like Intertek who can provide total end-to-end quality, safety and sustainability solutions that help mitigate risks and safely deploy hydrogen-based projects.

With the focus on hydrogen as one of the most effective and empowering elements for the energy transition, companies and governments are quickly realizing the potential and seizing opportunities all while navigating the expected, and sometimes unexpected, risks and challenges.

Intertek hydrogen lifecycle



Our Intertek Hydrogen global experts understand the risks and challenges that stakeholders are facing as the hydrogen industry accelerates at an exciting pace.

Our Expertise

Safety, efficiency, logistics, regulations, quality and reliable supply chains are some of the industry's risks and challenges. We help customers mitigate concerns by proactively identifying and addressing them at the beginning of a project therefore avoiding costly delays. Our customers are inspired to develop and commercialize their hydrogen-based technologies, and Intertek Hydrogen instills confidence that products will be safe, sustainable, high quality and meet all regulatory requirements.

Production

Electrolysis, Blue Hydrogen, Green Hydrogen, Hydrogen Production Facility, CCUS, SMR

- Auditing (vendor/site)
- Project Feasibility Studies
- Risk Assessment, HAZOP & HAZID Studies
- Notified Body Services (ATEX) & Certifying Body (IECEx)
- PED / ASME
- PipeAware™
- Testing & Product Certification
- Surveying, Environmental Permitting
- Welder Certification & Approvals

Storage

Tanks, Compression, Liquefaction, CCUS, Ammonia

- PED / ASME
- Product Design & Regulatory Consulting
- Risk Assessment, HAZOP & HAZID Studies
- Materials / Metallurgical
- Non-Destructive Testing
- Product Failure Analysis
- Surveying & Environmental
- Tank Testing & Certification

Distribution

Hydrogen Blending, Gas Pipelines, Utilities, Power-to-Gas, Shipping (Ammonia)

- Asset Integrity Management
- Hydrogen Pipeline - ASME
- Regulatory Consulting / Advisory Services
- Risk Assessment, HAZOP & HAZID Studies
- PipeAware™
- Testing & Product Certification
- Surveying, Environmental Permitting
- Vendor Inspection
- Welder Certification & Approvals

End-Use Applications

Fuel Cells, Hydrogen Retail Infrastructure, Transportation, Primary / Back-Up Power, Petrochemical, Steel

- Product Design & Regulatory Consulting
- Testing & Product Certification
- Risk Assessment, HAZOP & HAZID Studies
- Hydrogen Leak Detection
- Notified Body Services (ATEX) & Certifying Body (IECEx)
- PED / ASME
- Materials / Metallurgical
- Performance Testing
- Product Failure Analysis
- SAE Compliance
- Surveying & Environmental
- Tank Testing & Certification





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