

Embracing the Future: **Clean hydrogen solutions** with Siemens

Clean Hydrogen plays a critical role in the transition to a sustainable energy future. We commit to support our customers in establishing profitable and scalable hydrogen businesses.



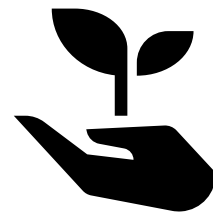
Siemens, a strong partner across the entire hydrogen value chain

Clean Hydrogen marks an essential piece in the transition towards a more sustainable energy future. As the world seeks to decarbonize and energy consumption is projected to triple by 2050¹, the global demand for hydrogen is expected to grow fivefold by 2050². Contrary, fewer than 50% of organizations expect to meet decarbonization targets by 2030².

Customers tapping into the rapidly emerging hydrogen market face uncertainties on evolving technology, geopolitical strategies, multiple vendors and operation interfaces, high operating costs and challenging time-to-market



Power vehicles with Hydrogen



Sustainability as key part of Siemens business strategy

As Sustainability is key part of the company strategy, business activities and investment decisions, Siemens is committed to support making hydrogen a business for its customers – futureproof, profitable and at scale.

Our industry expertise across applications in the hydrogen value chain positions us a strong partner of OEMs, EPCs, Operators, End Customers, Governments and Municipalities.

Building on our expertise in digitalization, automation and electrification we are dedicated to support our customers along their hydrogen journey and project lifecycle.

Our solutions cover everything from first pilots and aims to scalable & standardized blueprints including the generation of green electricity and grid connection, as well as hydrogen production, storage, transportation, and utilization with electrification, automation and digitalization concepts tailored to hydrogen requirements.

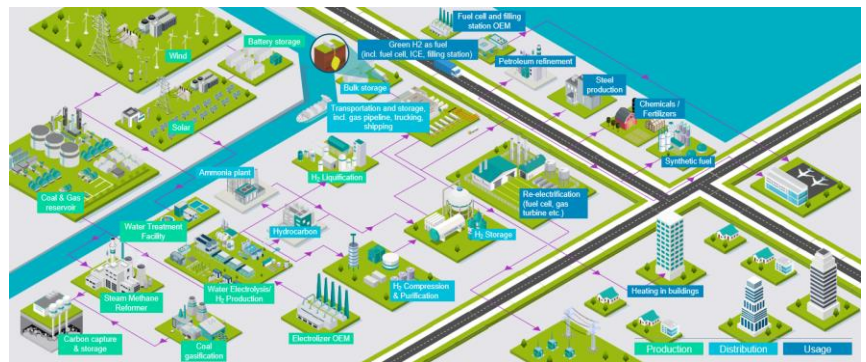
[siemens.com/hydrogen](https://www.siemens.com/hydrogen)

1) <https://www.mckinsey.com/industries/oil-and-gas/our-insights/global-energy-perspective-2022>

2) Siemens, 13 September 2023, Smart Infrastructure, Zug, <https://www.siemens.com/global/en/company/insights/infrastructure-transition-monitor.html>



H₂ production plant in Wunsiedel, Germany



Siemens portfolio suits the entire hydrogen value chain

Our Solutions

- Provide **concept, design, and planning services**, including **financing and consulting** for the production, distribution and usage of hydrogen.
- **Combine the real and digital worlds** through our multimodal **simulation portfolio** to model and **optimize** hydrogen related processes and applications along the value chain.
- Offer **engineering services** and **implementation support** for hydrogen projects and electrolyser factories (e.g. gigafactories), from **initial design** to final **commissioning** and **start-up**.
- Offer expertise, applications and services to **enable smooth, safe, secure and integrated operations** from generation of green energy to the usage of hydrogen.
- Provide **real-time monitoring and optimization technology** for complex hydrogen systems, **improving uptime, performance and efficiency**, while **reducing maintenance costs**.

Let's transform the everyday together! Paving the way to a profitable hydrogen economy at scale will require openness and collaboration across the entire ecosystem.

With our global network and the Siemens Xcelerator, the open digital business platform we enable customers to implement solutions easier, faster and at scale.

Join us on this journey, and let's make decarbonization a reality!

Dive into the Siemens Xcelerator marketplace: <https://xcelerator.siemens.com/global/en.html>

Sustainability at Siemens: <https://www.siemens.com/global/en/company/sustainability.html>

Published by

Siemens AG
Smart Infrastructure
Electrification and Automation
Mozartstr. 31c
91052 Erlangen Germany

For the U.S. published by

Smart Infrastructure
Siemens Industry Inc.
3617 Parkway Lane
Peachtree Corners, GA 30092
United States

All rights reserved.

© Siemens 2024

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract