

Siemens@H₂

Your technology partner

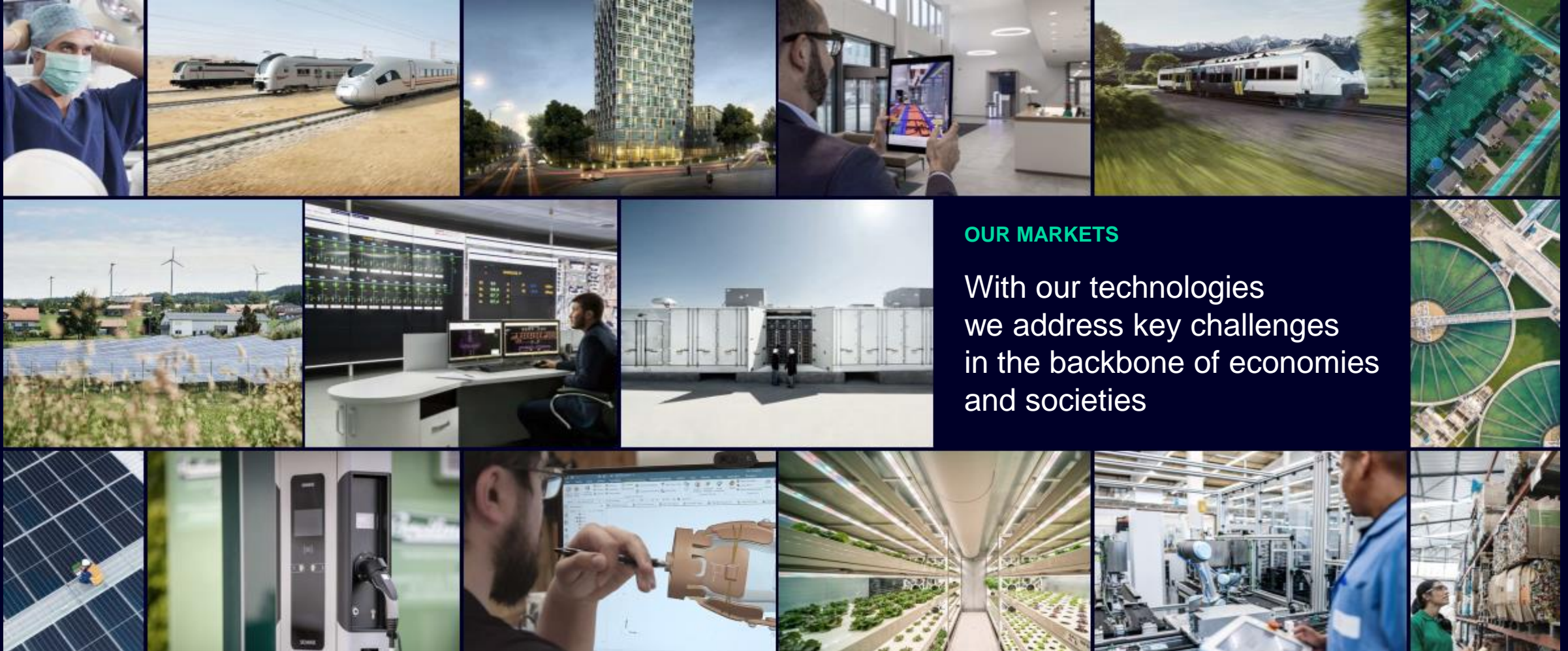
5th European Conference Hydrogen & PtX 20th June 2024

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Who is Siemens AG



OUR MARKETS

With our technologies
we address key challenges
in the backbone of economies
and societies

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It is quite likely that the science of the future will teach us to produce fuels that are more convenient to use, **such as hydrogen**, through labor with the **help of electric current**.

... uses electricity to produce all the necessary fuel and learns to do **without the coal deposits ...**

Electricity at the service of live
by Dr. Werner von Siemens (1880)



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Energy transition requires H₂ for **storage and export/import** of renewable energy

Decarbonizing hard-to-abate sectors¹ require global H₂ use to grow 6x²



Global demand for hydrogen is expected to grow by **63%** by 2030

Over **380'' EUR** investment in hydrogen economy are announced

Energy consumption is projected to **triple** by 2050

¹ Like steelmaking, chemicals, aviation and shipping will likely

² Deloitte

Key challenges on the journey to ensure long-term success of H₂ market

Feasibility



Scalability



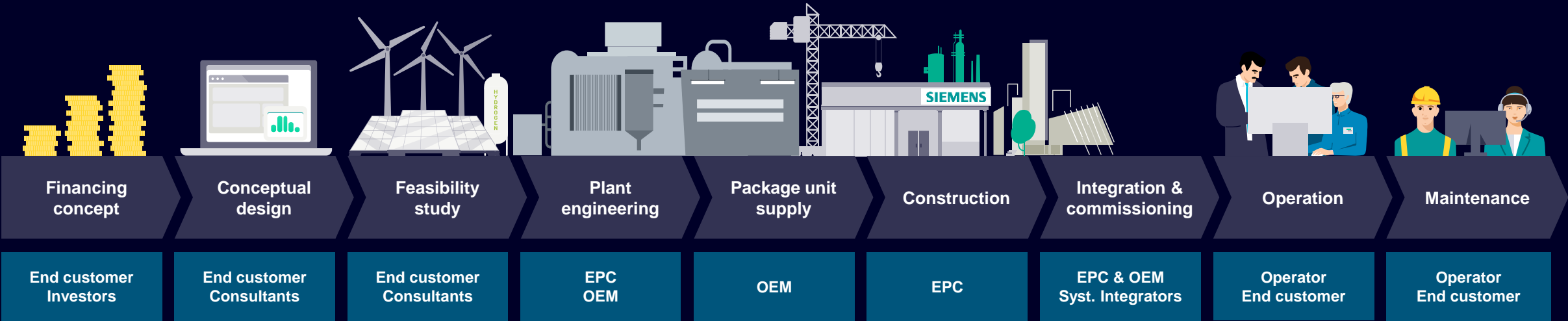
Efficiency



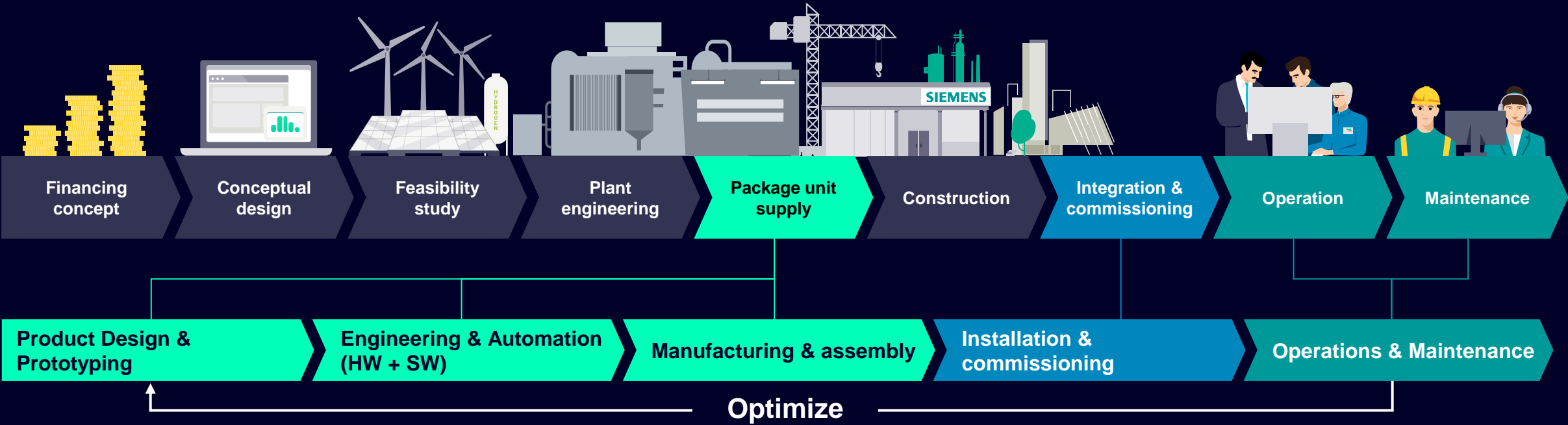
Ramping up H₂ along the entire lifecycle and in particular production of green H₂ requires

- Ensure **economic feasibility** including business models, and leveraging of funding mechanisms
- Confirm **technical feasibility** to maximize availability & minimize risks
- Speed up **electrolyzer manufacturing** ramp-up
- Increase integration of **H₂ package units** up to the entire plant lifecycle
- **Leverage digitalization** to increase efficiency in H₂ production process and reduce O&M running costs
- **Optimize energy efficiency** from electric power to production of H₂

We offer diverse use cases along plant and product lifecycle and support your ramping up of the factory



Produce high-quality hydrogen units at scale,
while meeting delivery, safety, reliability, cost, and sustainability targets



Together with our customers we create sustainable hydrogen sites all around the world



GeoPura

UK



**Atmosfair/
Solarbelt FairFuel**

Germany

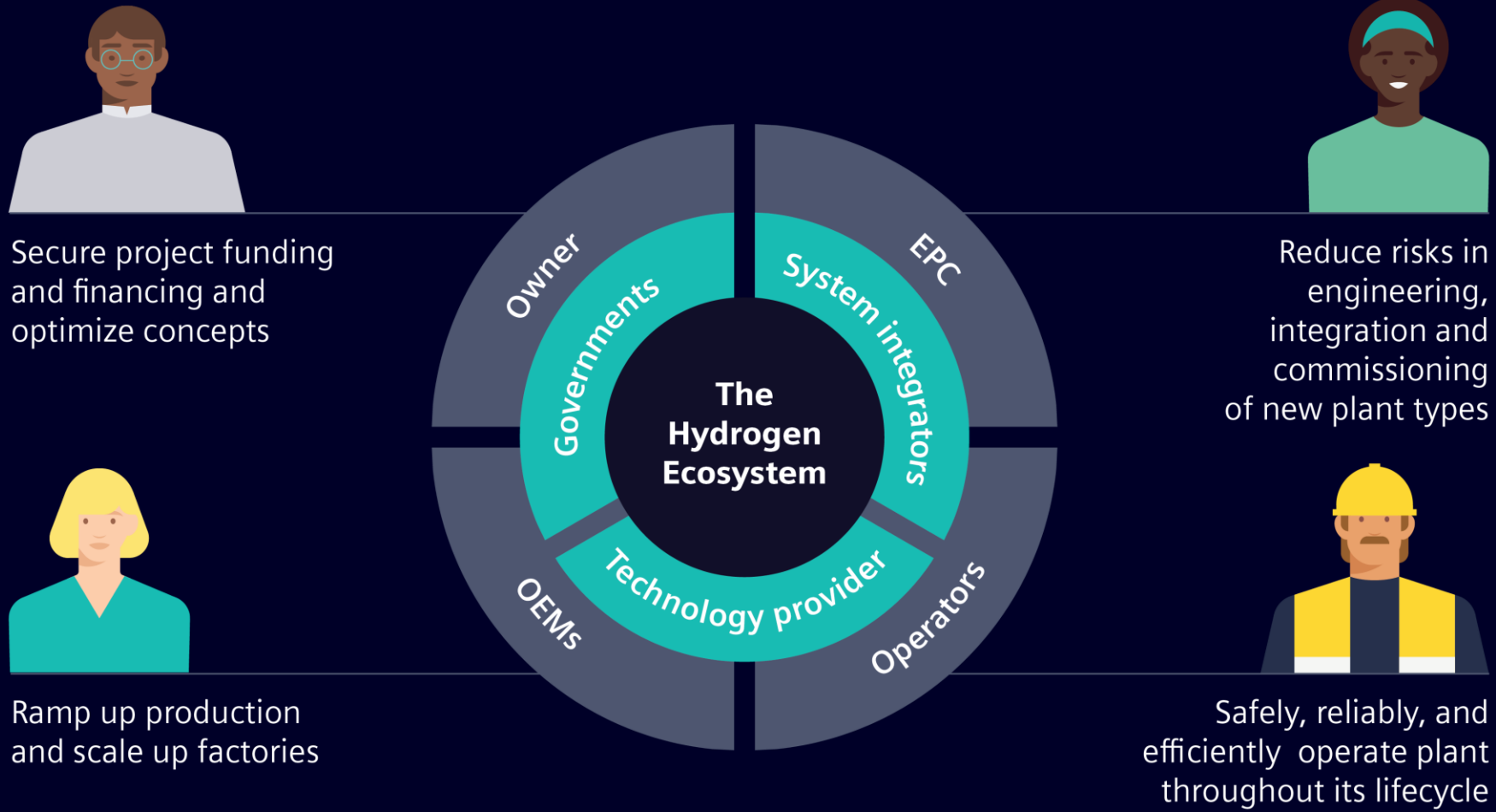


Wunsiedel

Germany

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The hydrogen ecosystem included various key players from OEMs to EPC and Owner & Operators



Siemens Xcelerator Ecosystem tackles customer challenges



OPENNESS

Allowing for greater collaboration, interoperability, and accessibility to harness collective creativity & expertise of ecosystem participants

INNOVATIVENESS

Driving progress and sustainable growth by developing scalable solutions tackling the customer challenges

DIVERSITY

From global players, small medium enterprises, developers, to startups, all with the aim of creating value for the customer

COLLABORATION

Promoting peer-to-peer interactions, facilitating knowledge exchange within the community, and encouraging co-creation

Get the competitive edge
through **partnerships**

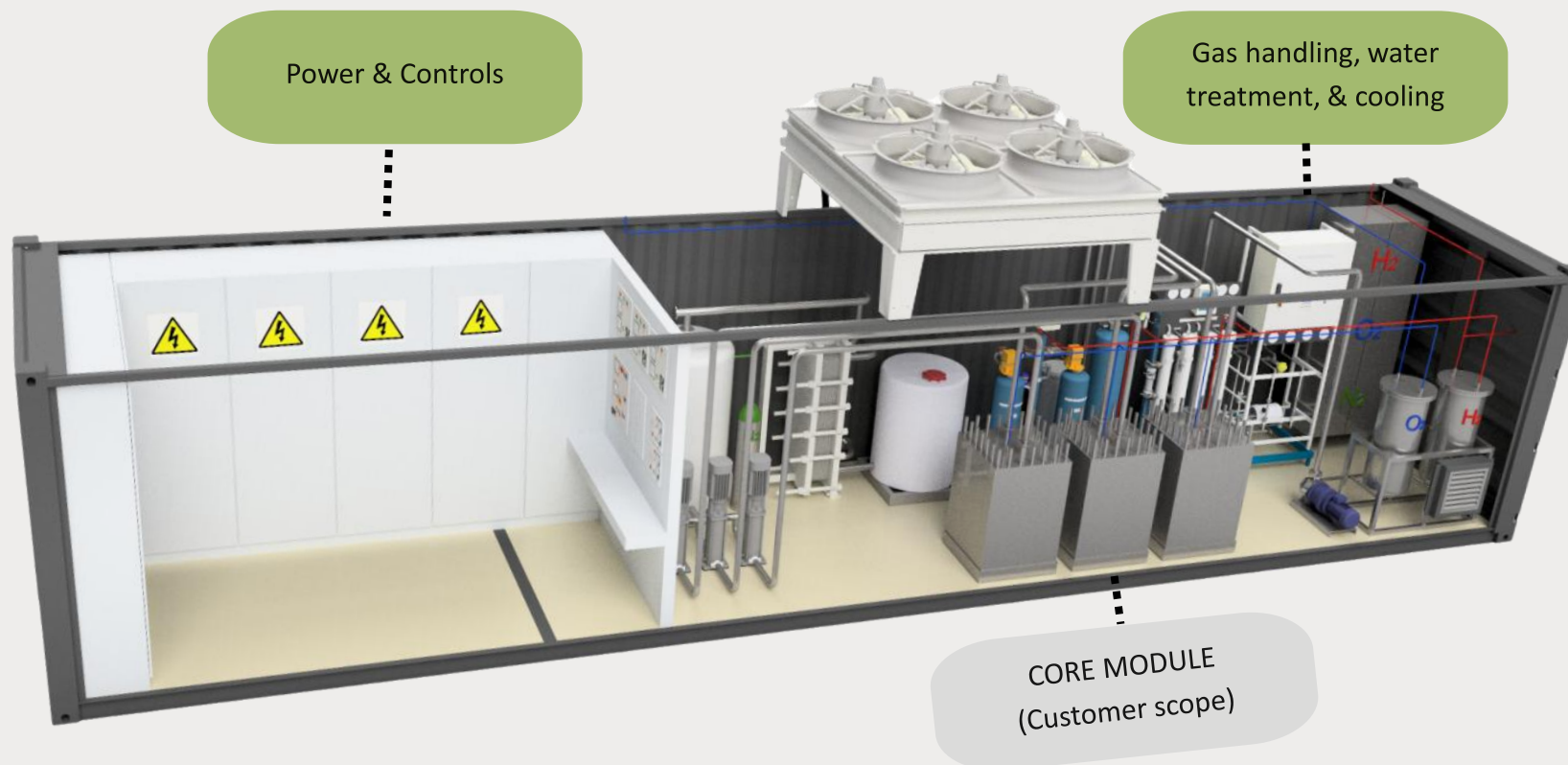


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Eltronic PtX

Your technology partner

We partner with electrolyzer OEMs to design and fabricate bespoke Balance of Stack systems empowering our customers' ability to own, market, and sell modular and efficient solutions at a global scale.



Get the competitive edge
through **partnerships**



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