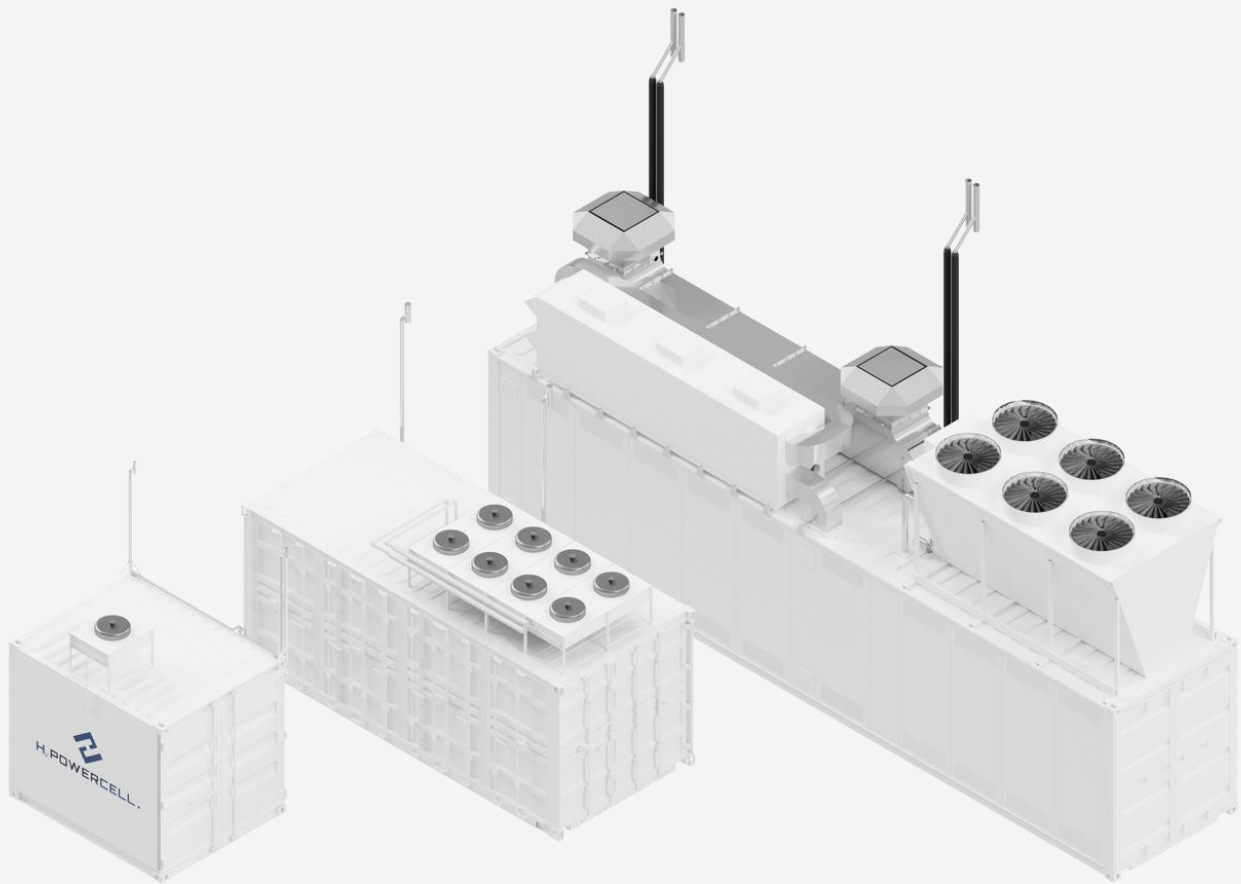
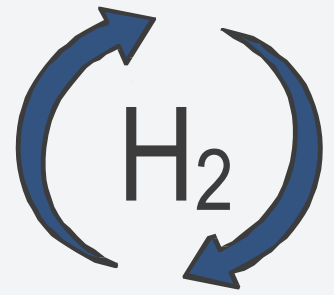

H2PowerCube

The comprehensive solution for forward thinkers



For stationary and mobile
energy applications.

The H2PowerCube — a flexible
solution for the evolving
hydrogen market.



The H2PowerCube from H2POWERCELL GmbH is a modular system for a wide range of applications.

It is based on innovative hydrogen technology for the supply of electricity and heat. This provides a future-proof energy solution – economical, efficient, and environmentally friendly.

Whether for industry, commerce, or mobility, the H2PowerCube can be individually configured and scaled.



Our H2PowerCube – a modular and scalable system

von

40 kW Electrolyser / 5 kW Fuel-Cell

bis

1,2 MW Electrolyser / 240 kW Fuel-Cell



Technical Data

H2PowerCube - Small Cube 40/5

Electrical input power	ca. 40 kW
Operating range	20 – 100 %
Nominal hydrogen production	0,68 kg/h
Load range	7,61 Nm³/h
Operating pressure of hydrogen	max. 40 bar
Electrical output power	5 kW
Thermal output power	9,5 kW
Return temperature	5 – 60 °C
Supply temperature	< 60 °C
System type	Container
Weight	< 5 t
Dimensions (L x B x H)	3 m x 2,4 m x 2,6 m
Ambient temperature E	-15 bis 45 °C
Installation position	horizontal



For H2 refueling operators

The H2PowerCube paves the way for new mobility solutions—spanning electric, hydrogen, and next-generation e-fuel technologies.

For energy producers

The H2PowerCube allows renewable energy producers to convert surplus electricity into hydrogen and feed energy back into the grid strategically — at times of actual demand rather than during overproduction. This makes renewable generation more economical and avoids costly grid upgrades needed to handle temporary production peaks.

By balancing production and demand, producers gain flexibility, stability, and improved profitability.

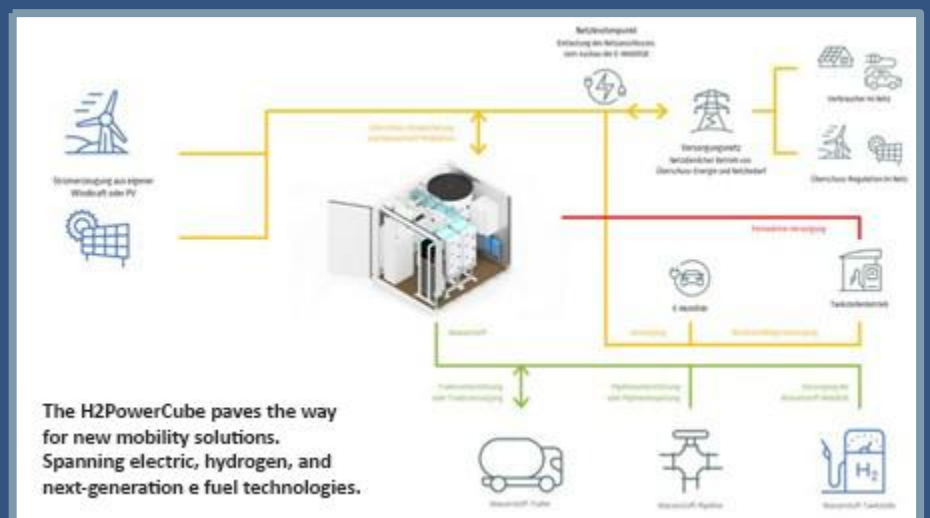
For energy utilities

For utility companies, the H2PowerCube serves as a flexible energy buffer that reduces grid stress and enhances system efficiency. Surplus renewable energy can be stored locally as hydrogen and later reconverted into power or heat when demand rises. This decentralized storage approach improves grid stability, optimizes the use of renewable sources, and significantly reduces the need for expensive and time-consuming infrastructure expansion projects.

For industry and commerce

The H2PowerCube empowers industrial and commercial users to increase their energy independence.

By storing surplus renewable electricity as hydrogen, excess generation and load peaks can be shifted to periods of higher demand. This unlocks significant savings in energy costs while ensuring a secure, uninterrupted power supply.





At H2PowerCell, our mission is to deliver outstanding quality and reliability in every product we design.

We are a focused and dynamic team operating in an evolving energy landscape, supported by strong expertise and proven project experience.

Driven by innovation and a shared commitment to a sustainable future, we create energy solutions that combine efficiency, performance, and environmental responsibility.

Continuous improvement is central to our approach — ensuring our customers receive dependable systems and lasting satisfaction with every project.



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