
Product portfolio

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We make energy durable. With hydrogen.

Problem: Electricity is a perishable commodity. It must be consumed as soon as it is generated, otherwise it becomes worthless.

Solution: Convert electricity into hydrogen and store it directly at the power source. This not only preserves its value, but even increases it when little energy is available but needed. Additional transport costs are eliminated.

With its broad product portfolio in the hydrogen sector, ostermeier H₂hydrogen Solutions (OHS) offers solutions for a wide range of applications locally at the point of power generation, for private and business customers.

1. Electrolysis

- Wide power range of electrolyzers from 2-100 kW to allow customisation to local requirements
- Local hydrogen production (H₂-OnSite) saves on the transport of hydrogen, is cheaper, fulfils future regulatory requirements for green hydrogen and makes people independent

2. H₂-Battery

- Expansion of electrolysis to include (compressor and) hydrogen storage and fuel cell or hydrogen engine
- Modular component sizes and therefore good adaptation of the overall system to the boundary conditions on site
- Seasonal storage, storage of energy over long periods of time and for longer operating periods
- Only water required apart from electricity
- Independence from energy supply and fluctuating prices
- Utilisation of waste heat on site enables very high efficiency levels
- Avoids expensive grid expansion, as the load on the electricity grid is relieved directly at the point of generation
- Surplus electricity that cannot be utilised elsewhere is refined
- Green, no CO₂ emissions

3. E CORE

- Holistic product: H₂ battery expanded to include battery storage, heat pump, hot water tank and intelligent energy management system
- Plug & Play
- Can be relocated as only electricity and heat supply are connected to the house
- Reduced space requirement for domestic installation due to outdoor installation
- Odourless compared to oil and gas
- For island locations
- Can provide grid-serving services and thus enable an additional source of income

4. Teaching facilities

- Hydrogen technology must be understood and operated
- Vocational schools, colleges, universities and industrial companies need a realistic product for training their employees
- OHS has developed a compact and inexpensive complete system with which the relevant know-how of systems of all sizes can be imparted
- Operation is structured in exactly the same way as with a large system so that there are no breaks in what has been learnt

ostermeier H₂ydrogen Solutions (OHS) enables its customers to achieve local energy autonomy. With the hydrogen solutions from OHS, (renewable) electricity can be converted into hydrogen on a decentralised basis and used locally. Possible applications are in industry as a replacement for bottled hydrogen, in mobility for forklift trucks or as seasonal storage in buildings. OHS was founded in 2021, is based near Munich and currently employs 13 people.