
Press release

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ostermeier H2ydrogen Solutions (OHS)

Year-round electricity storage - decentralised energy supply with
electrolysis kit and hydrogen battery

Topics

- Energy for residential or commercial properties
- local hydrogen production
- seasonal storage
- hydrogen battery
- modular electrolysis system

Company portrait

ostermeier H2ydrogen Solutions GmbH (OHS for short) has set itself the task of overcoming the challenges of renewable energy generation. With its modular electrolysis kit and the hydrogen battery it has developed, OHS makes it possible to store surplus summer solar power for the winter. The self-contained system guarantees a decentralised and sustainable energy supply throughout the year.

Since 2021, the company based in Schweitenkirchen near Munich has developed from a hydrogen technology start-up into a company with four promising product families for various practical fields of application:

- In the field of **local hydrogen production**, OHS is now connected with sales partners throughout Europe.
- OHS has gained more and more practical experience in the field of **seasonal storage** through national and international reference projects.
- The complete energy solution, **ECORE**, combines all of this experience in a market-ready overall product.
www.ecore.infener.com
- Recently, OHS has also started manufacturing **training systems** that are equivalent to a small-scale **hydrogen battery**. They are of interest to anyone who needs training in the field of hydrogen. They can be used to teach the entire chain from hydrogen production to reconversion into electricity.

Economical, local, energy sovereign

„It makes sense and is sustainable to produce hydrogen at the point of consumption wherever possible. This is because it can only be transported economically via pipelines or over very short distances by lorry,“ says Managing Director Markus Ostermeier. With the highly efficient modular electrolysis system developed by OHS, solar power can be converted into hydrogen on a decentralised basis, stored over a longer period of time and used on site as required. One major field of application is the use of hydrogen in industrial processes. Another is the seasonal storage of energy for residential or commercial properties that want to make better use of self-generated summer electricity and at the same time reduce the load on the general power grid.

OHS Managing Director Markus Ostermeier looks back on the past financial year with satisfaction: „Our products have been accepted by the market and our partners can report their first sales successes. One highlight was the première of our **complete energy solution ECORE** at the Intersolar trade fair in Munich. In addition, our customer e.systeme21 GmbH in Ulm received the Baden-Württemberg Environmental Award for the 100% autonomous energy supply of its commercial building. The hydrogen battery it contains comes from OHS. In addition, our electrolyzers are now also installed in several research facilities and have been successfully tested in practice.“

Areas of application - a separate circuit for energy autonomy

With the modular electrolysis kit from OHS, regional and autonomous energy supply can be realised. Hydrogen is produced locally using electricity from renewable energies. For example, PV electricity from sunny days can be stored for the long term and then converted back into electricity or heat in winter. Reconversion into electricity takes place via a fuel cell or a Wankel engine. This means that residential neighbourhoods, businesses or even mountain huts or hotels can supply themselves with locally and sustainably produced electricity and heat all year round. And independently of developments on the international energy market.

In addition to the long-term storage of renewable electricity, the electrolysis kit from OHS is also used for mobility or to produce hydrogen in industry. Logistics companies use it to refuel their forklift truck fleets. And laboratories and commercial customers can produce their own hydrogen on site as required instead of buying it in cylinders.

ostermeier H2hydrogen Solutions relies on a strong network of sales and service partners in Germany, Austria and Switzerland and has delivered systems as far afield as Ghana.

We EmPower People - already in 9 countries

ostermeier H2hydrogen 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.