

# Rethinking the energy storage of renewable energies with the help of hydrogen

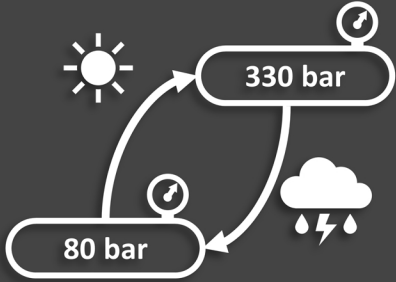


**High and Dynamic Pressure**  
 Compared to conventional steel pipe-lines, our system can handle higher and dynamic pressure.

**380 bar Operating Pressure**



**Energy Storage**  
 We can use the surplus of energy production to increase the pressure in the system during peak times. On days with low energy production, this energy can then be regained from the hydrogen grid.



## Battery Storage TESLA MEGAPACK

The Tesla Megapack is a battery that provides energy storage and support, helping to stabilize the grid and prevent outages.

- 3.277 Packs**
- 5,2 bn. € Invest**
- 50.000 m<sup>2</sup> Sealed Area**
- 21 t Raw Materials pro Pack**



## EnCura Pipeline System by fiberior

Example storage of the daily production of the largest german offshore wind park Hohe See.

**Daily Production: 12,5 GWh**



- Pipeline Diameter: DN450
- Pressure Difference: 250 bar
- Length: 170 km (Berlin → Leipzig)



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## Pumped Storage Power Plant Goldisthal

Goldisthal is the largest german pumped storage power plant. It produces electricity to supply peak demands by moving water between reservoirs at different elevations.

- 623 Mio. € Invest**
- 550000 m<sup>2</sup> Sealed Area**
- 6 Years Construction Time**

