## **FIT4H2 REFERENZ FABRIK Wasserstoffsystemen**

🗾 Fraunhofer

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FIT4H2

Produktionstechnologien – Bipolar-Platte

Technologiebaukasten
Vergleiche
Fertigungsstrategien





#### Hochratenfähige Produktionstechnologien

Imformende Fertigungsverlaufer

Herstellung von BPP di

⇒ Hochratenfahig
 → 40 bis 60 BP Hal
 > Vergleichbare Eben

 Entwicklungsansä o Form und Lagetolen o Standmenge der Aktiv

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# **FIT4H2** Schulung: Produktion von Wasserstoffsystemen



## REFERENZ FABRIK

## **FIT4H2** Training: Production of Hydrogen Systems

### **Opportunities for value creation**

Hydrogen technologies play a central role in accomplishing global climate goals. Key elements are systems for converting renewable energy into hydrogen (electrolyser) and its reconversion into electricity (fuel cell), which are produced currently just in small quantities. However, to achieve a consistent reduction in CO<sub>2</sub> emissions and to establish a global hydrogen-based economy and society, system's availability must increase, with costs decreasing significantly. This requires industrial mass production, which in turn is inconceivable without value creation networks and manufacturing technologies.

### Target groups and content

The Fit4H2 training workshop introduces the essential components of the electrolysers and fuel cells and combines them with substantial knowledge of their manufacturing technologies. The economic potential of production is also analyzed. The aim is to provide an overview of the market and concrete starting points for your company to enter the hydrogen system production value chain.

## Topics

- Hydrogen economy in numbers Value Analysis
- Fuel cell and electrolyser Functionality, Types
- Production technologies for bipolar plates Technology Toolbox, Manufacturing Strategies
- Production technologies for MEA Structure, Manufacturing Technologies
- Quality assurance Components, Testing technologies.
- Fuel cell system Components, Application scenarios, Live presentation
- Electrolyser cell Design Toolbox, Design variations
- Electrolyser system Hydrogen Lab, Application concepts

www.referenzfabrik.de