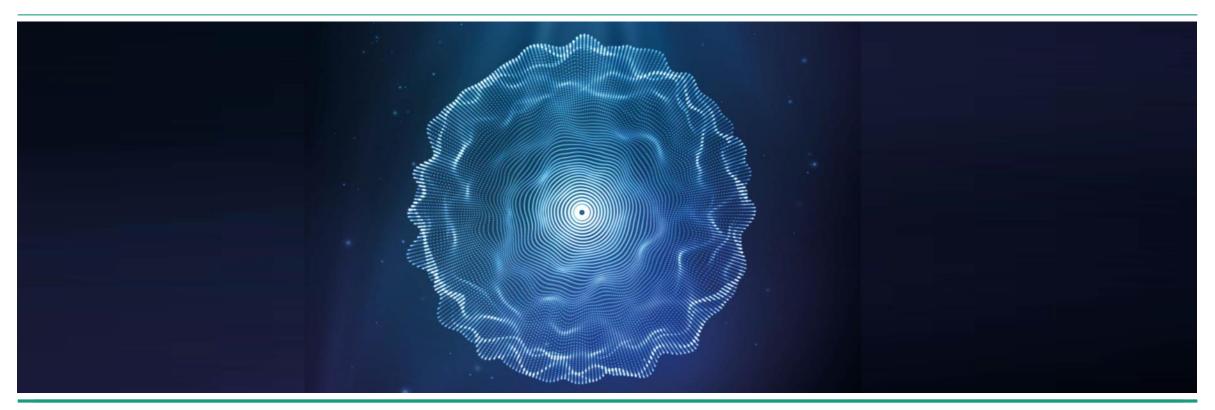
FRAUNHOFER HYDROGEN ACTIVITIES FOCUSING ON LUSATIA

Dominik Härle, online

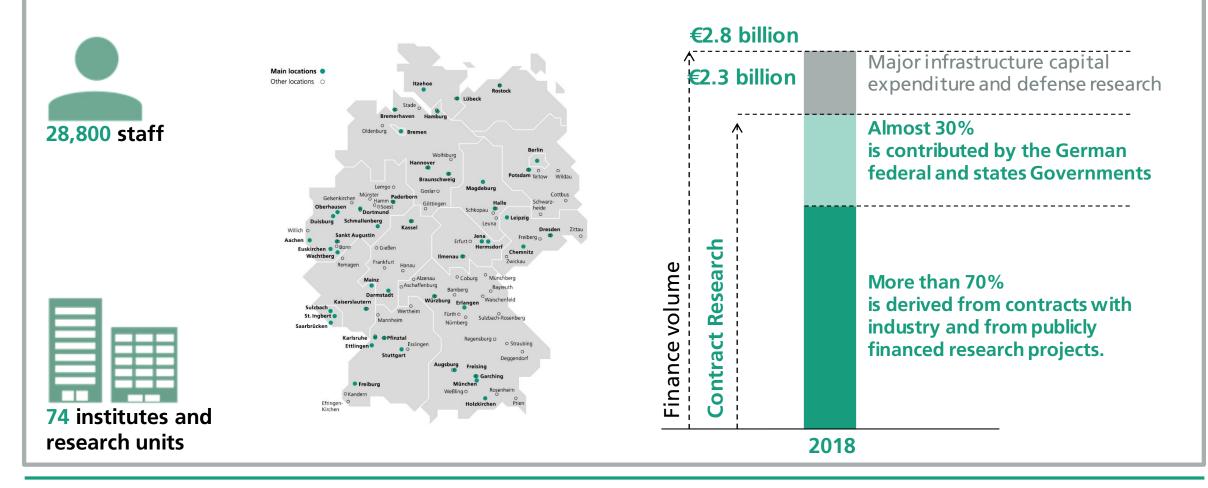
23.03.2021





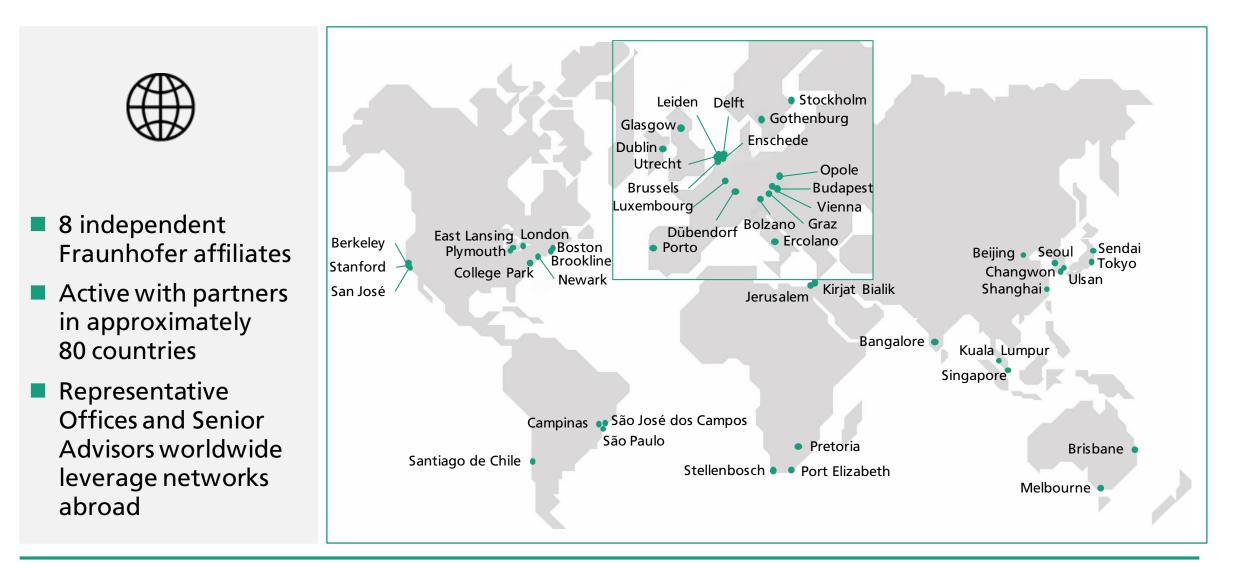
The Fraunhofer-Gesellschaft at a Glance

The Fraunhofer-Gesellschaft undertakes applied research of direct utility to private and public enterprise and of wide benefit to society.



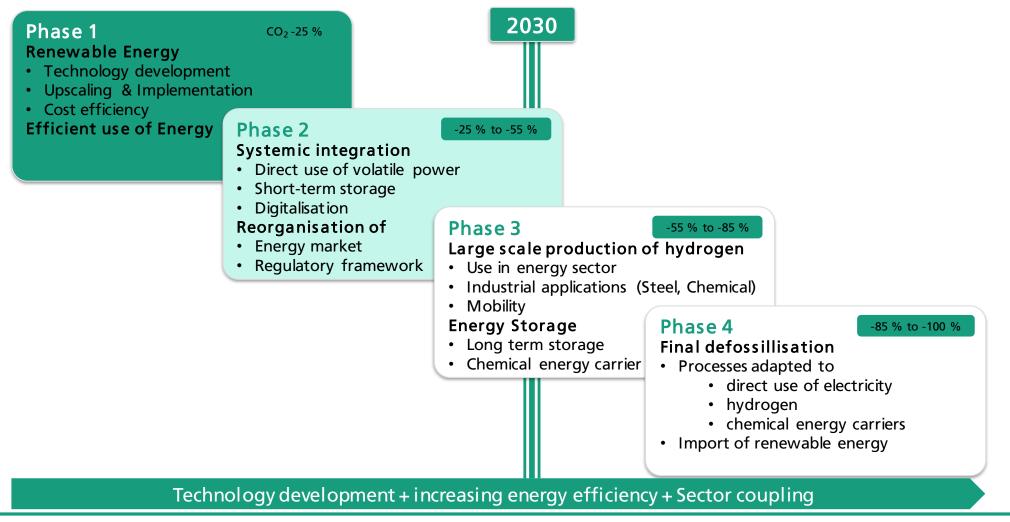


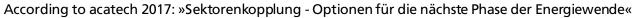
International Network





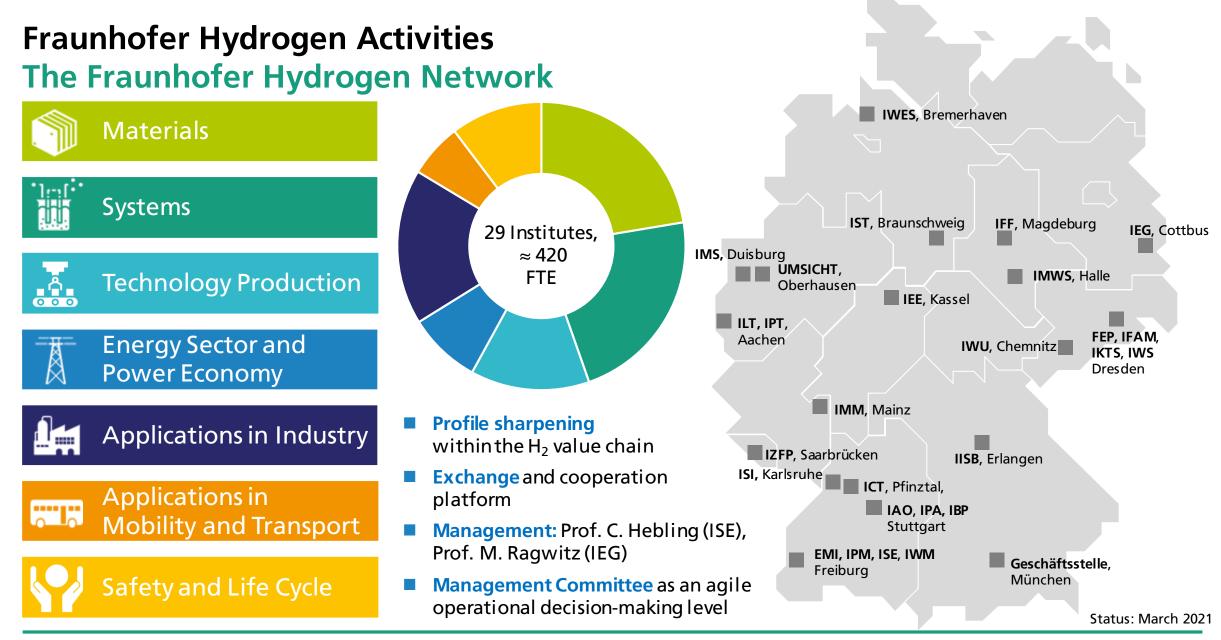
Fraunhofer Hydrogen Activities Phases of the energy transition



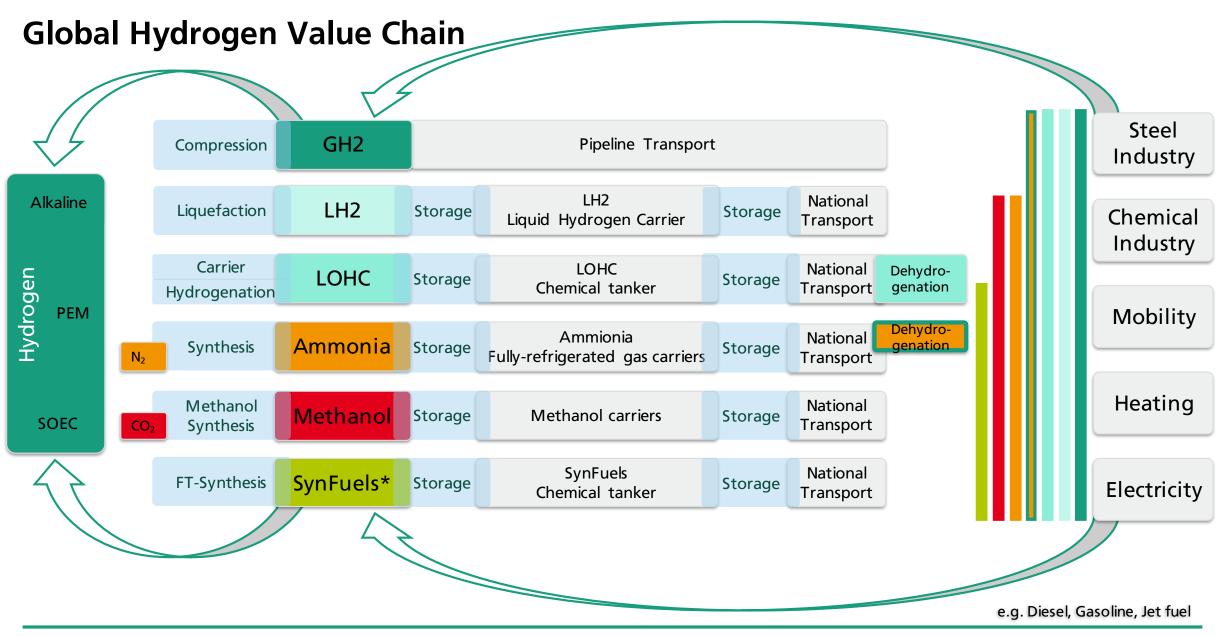




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Fraunhofer Hydrogen Activities

Fraunhofer Hydrogen Network – Publications: Roadmap and Portfolio

🗾 Fraunhofer	Definition of options for political action to support the
Eine Wasserstoff-Roadmap für Deutschland	development of the National
C. Hebling, M. Ragwitz, T. Reter, U. Groot, D. Hale, A. Held, M. Jahn, N. Müller, T. Pferfer, P. Rotz, O. Rannenger, A. Schadz, F. Semblid, T. Smolnia, M. Wetschel Fraunoler-Institut für Spitern- und Innovationsflorschung 65, Karlsruhe	Hydrogen Strategy
Frauhofen Institut für Solare Energiesysteme ISE, Freiburg unter Beteiligung von Frauhofen eindunt für Mänostnäkhar von Werkstoffen und Systeme MAVS, Halle Frauhofen Institut für Kasamäche Technologien und Systeme IKTS, Dreaden	
Kartanie und heburg	

🗾 Fraunhofer

KOMPETENZ FÜRS WASSERSTOFF-ZEITALTER

Fraunhofer brochure **»Competence for the hydrogen age**«

Key messages:

- Call for technological openness
- Need for
 - Model regions in Germany
 - Research Factory Fuel Cells
 - IPCEI at EU-level
- Fraunhofer can design and support technology transfer to industry across all subject areas
- **English** version of the executive summary available

Content:

- Status quo of Fraunhofer competencies in the field of hydrogen
- Competence map with contact persons
- Longer term validity
- Target group: politics and industry



Fraunhofer IEG Locations

North Rhine-Westphalia

"Georessources, Energy Storage and Systems Transformation" in Bochum, Aachen and Weisweiler; in close cooperation with RUB, HBO and RWTH.

"Open District Hub" in Jülich; in close cooperation with FZ Jülich and RWTH.



Brandenburg

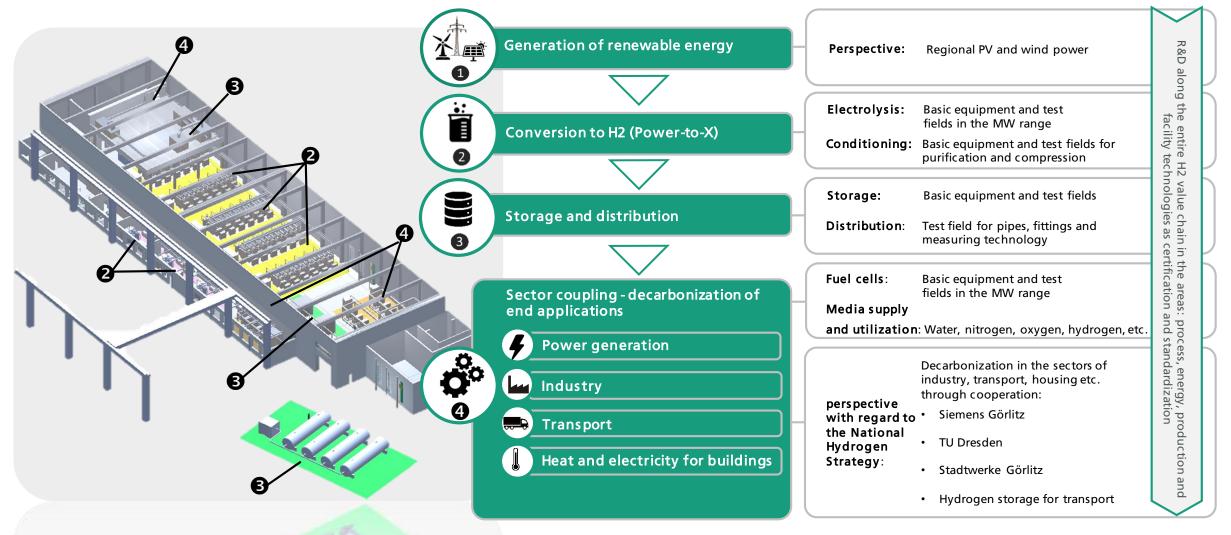
"Energy Infrastructures" in Cottbus; in close cooperation with BTU Cottbus-Senftenberg

<u>Saxony</u>

Local branch for **"Next Generation Heating Infrastructures** " in Zittau; in close cooperation with HSZG.



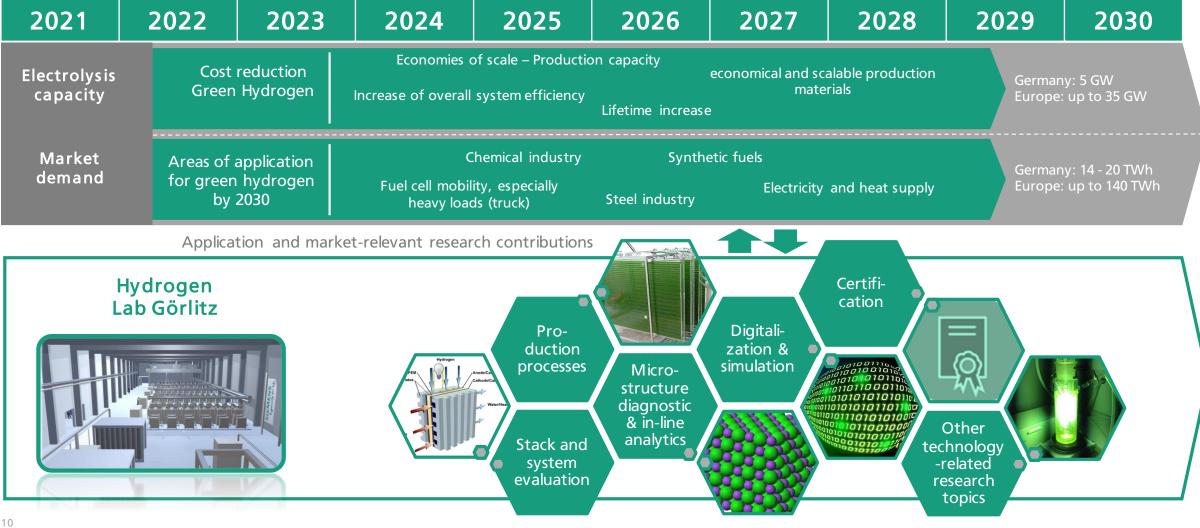
Hydrogen Lab Görlitz - HLG Fraunhofer IWU & IMWS





Hydrogen Lab Görlitz - HLG

Research roadmap and strategy





WASSERSTOFFNETZWERK LAUSITZ

11

UNTERSTÜTZUNG DES STRUKTUR-WANDELS UND AUFBAU EINER LAUSITZER WASSERSTOFFWIRTSCHAFT

> "VERANTWORTUNG KANN NICHT GETEILT ABER GEMEINSAM GETRAGEN WERDEN" - WALTER JAKOBY

© Fraunhofer Source: Dr.-Ing. Sebastian Schmidt | Fraunhofer IWU



HYDROGEN ENERGY STORAGE

> **Unternehmen M** Revier



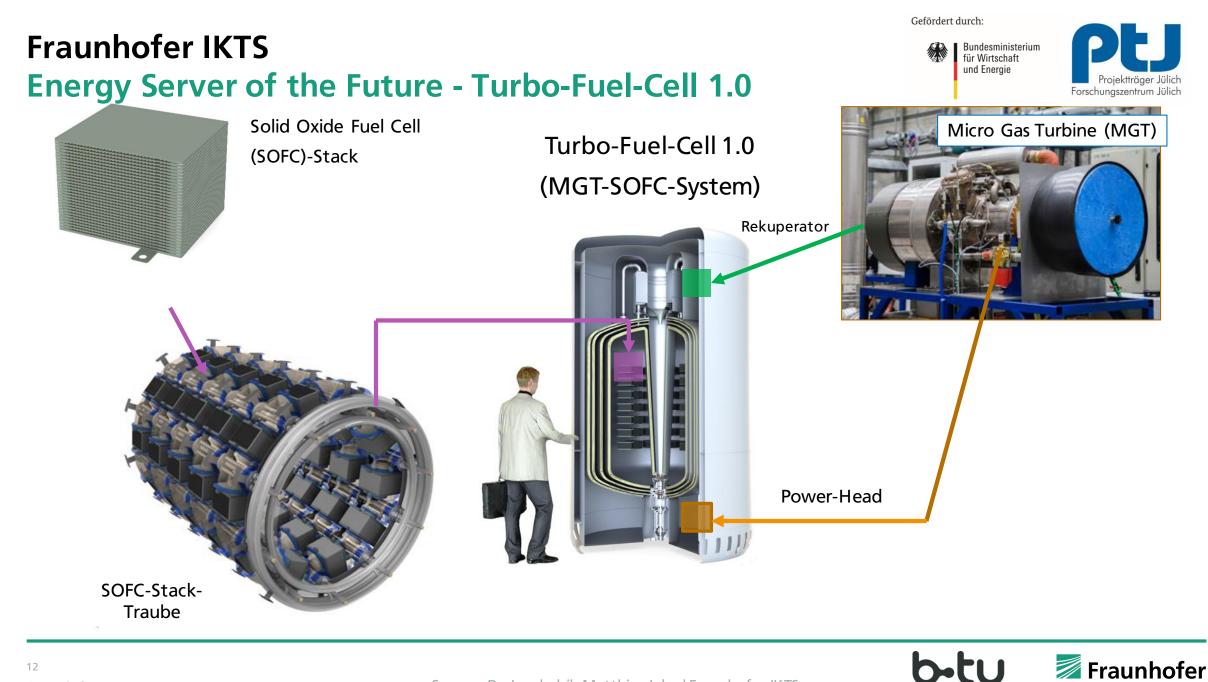
Bundesministerium

für Wirtschaft

und Technologie







Research Outlook

- We need research along the whole value chain & being open for all technologies
- Large scale projects need to be implemented
- Electrolyzer factories need to be build
- Large scale testing infrastructure need to be implemented
- Hydrogen hubs across Europe need to be connected
- Hydrogen import and technology export needs to be prepared



Contact

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