



Fraunhofer Center for International
Management and Knowledge
Economy IMW
Branch Office Halle (Saale)

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Project lead:



Project duration:
8/1/20–12/31/20

H2 D

A HYDROGEN ECONOMY FOR GERMANY

Background

Germany is planning the development of a hydrogen economy. In order to make the process of this development sustainable and future-proof, the proposed project will scientifically address the central issues for the development of a hydrogen economy in Germany as well as identify paths for the future use of hydrogen technologies for politics and industry.

Project description

The goal of the project is to create an atlas of potential for a German hydrogen economy. This would include all springs and depressions as well as their linkages through material transport and distribution structures, including different storage systems and the connection to international supply chains.

Methodological implementation

Fraunhofer IMW participates in the work on focal point 1: Systematic overall view and development of an atlas of potential. For this purpose, first an automated internet search for key terms will be performed, a patent search, and a contribution will be obtained from interviews. This will be followed by a geocoding of the entrepreneurial actors from step 1. This will lead to regional expressions of hydrogen regions.

Services and Tasks

The project focus is split into four focal points:

- 1.: Systematic overview and development of an atlas of potential (Fraunhofer IMW)**
- 2.: Production of hydrogen by electrolysis
- 3.: Safe infrastructure
- 4.: H₂DIGITAL and application examples

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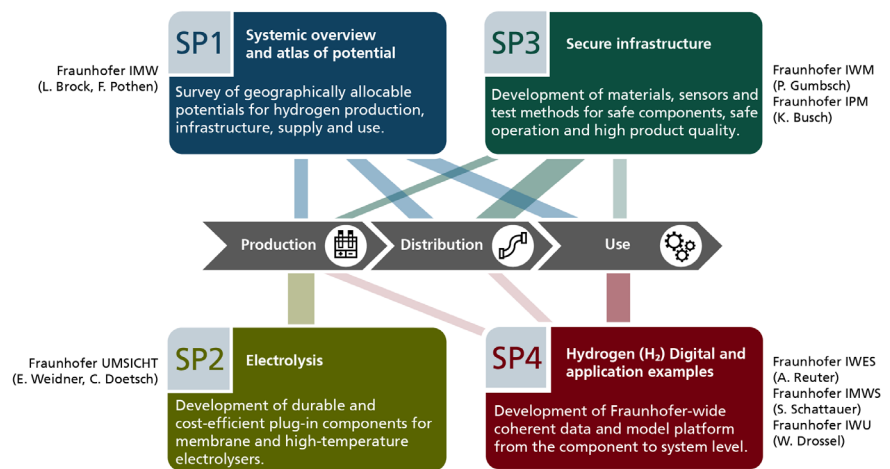
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»Structure of the overall project and addressing the hydrogen value chain through focal points 1 to 4«
 (Source: Fraunhofer IEG)

Project partners:

- Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG
- Fraunhofer Institute for Chemical Technology ICT
- Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAMFAM
- Fraunhofer-Institut für Fabrikbetrieb und -automatisierung IFF
- Fraunhofer Institute for Factory Operation and Automation IFF
- Fraunhofer Institute for Ceramic Technologies and Systems IKTS
- Fraunhofer Institute for Integrated Circuits IIS
- Fraunhofer Institute for Microengineering and Microsystems IMM
- Fraunhofer Institute for Microstructure of Materials and Systems IMWS
- Fraunhofer Institute for Physical Measurement Techniques IPM
- Fraunhofer Institute for Production Technology IPT
- Fraunhofer Institute for Surface Engineering and Thin Films IST
- Fraunhofer Institute for Industrial Mathematics ITWM
- Fraunhofer Institute for Wind Energy Systems IWES
- Fraunhofer Institute for Mechanics of Materials IWM
- Fraunhofer Institute for Material and Beam Technology IWS
- Fraunhofer Institute for Machine Tools and Forming Technology IWU
- Fraunhofer Institute for Nondestructive Testing IZFP
- Fraunhofer Institute for Structural Durability and System Reliability LBF
- Fraunhofer Institute for Algorithms and Scientific Computing SCAI
- Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT