

Germany's path to hydrogen value chains

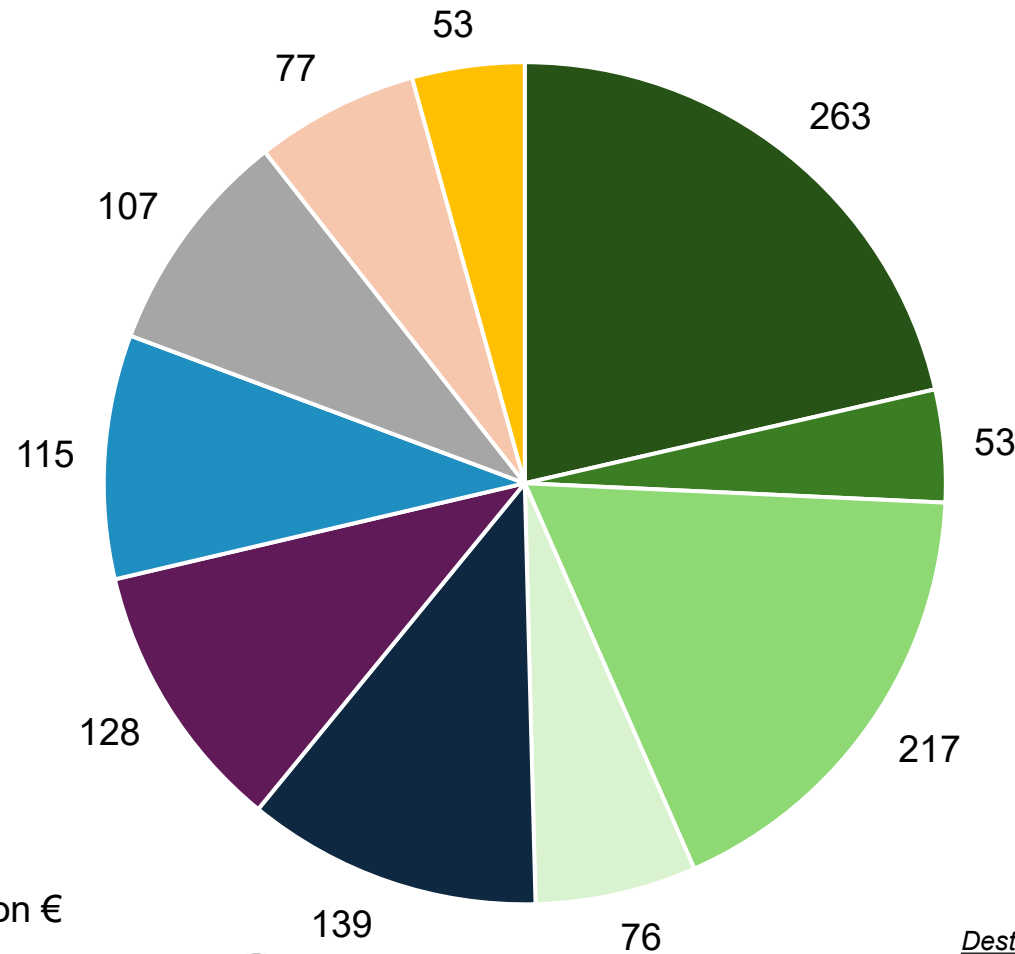
Frederik Wewetzer



implemented by

Most important German export goods 2024

[bn €]

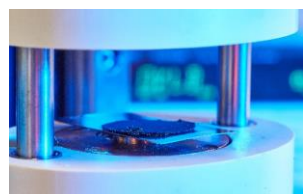


Total: 1.228 billion €

Destatis, 2025

- Motor vehicles and motor vehicle parts
- Other vehicles
- Machines
- Metals
- Chemical products
- Data processing equipment
- Pharmaceutical products
- Electrical equipment
- Food and animal feed
- Rubber and plastic goods

Value chains for hydrogen technologies



1,75
million jobs
in 2030
in Europe

Production, transport
and application

OEM and system
manufacturers

Stacks and components

Machines, equipment
suppliers, materials

The German Hydrogen Strategy



Publication
June 2020

Progress
report
May 2022

Update
Juli 2023

Core targets

- Creation of suitable framework conditions
- Accelerated market ramp-up of hydrogen
- Building an efficient hydrogen infrastructure
- Ensuring sufficient availability of hydrogen and its derivatives
- Establishment of hydrogen applications in all sectors
- Development of Germany as leading supplier of hydrogen technologies



Transformation support for existing value chains



Developed by



Minimise barriers
Simplify access
Provide requirements
Transfer knowledge

Based on projects funded by



Goals for 2025

- Expansion of the current OSS050 concept to OSS150 (150 cm² active area)
- Development of an OS electrolysis stack

Germany's new Hydrogen Innovation Center



Test stands 2.5 to 400 kW
for components, stacks,
systems and drivetrains

HIC-Academy
Theory and practice
for 10-200 people

Proving Ground
with H₂, electricity,
heat, cooling, water

1.000 m² HIC-Lab
H₂ labs and offices
for rent

1.000 m² HIC-Workshop
for functional models and
prototypes



implemented by



Demands of existing industries



HIC research and transfer center

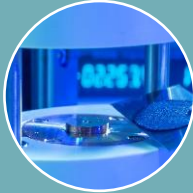
Opening in **Summer 2025**



Testing of stacks and components



Regulation, codes and standards



R&D



Knowledge transfer



Networking



Consultancy



Training



H₂-Labs and workshop



Meeting point for H₂ developers



Federal Ministry
for Economic Affairs
and Climate Action



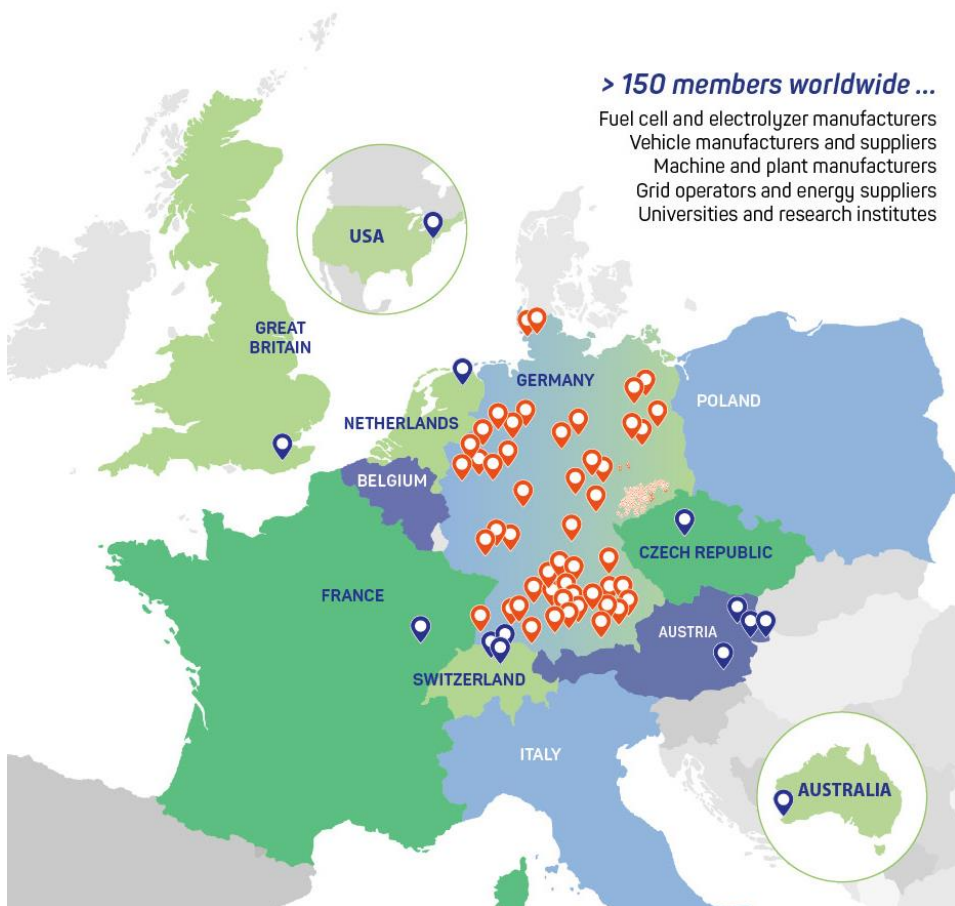
GLOBAL
ENERGY SOLUTIONS
MADE IN GERMANY



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HZwo – Hydrogen Technology Cluster



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