



ESSEN



ESSENER
WIRTSCHAFTSFÖRDERUNGS
GESELLSCHAFT MBH

Hydrogen Economy in Essen

As a metropolis in the heart of the Ruhr area, the largest conurbation in Germany, Essen is actively involved in establishing a sustainable and viable hydrogen market.

Due to the high density of well-known companies from the energy industry, Essen occupies an important position in these areas throughout Germany and Europe.

In conjunction with a large number of universities and research institutes in the Ruhr area, these are ideal conditions for making the hydrogen era a reality.

H₂Facts



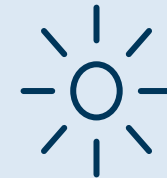
the 1st element of
the periodic table



produced from
renewable electricity
CO₂-free



NON-toxic,
environmentally harmful or
harmful to health



in normal condition,
gaseous, colorless &
odorless

H₂Roadmap

2021

Initiation

H₂Vision finalized
Detailed concept created
Governance established

2023

Startup

Implementation of detailed
concept initiated
International partnerships
established

2027

Expansion

H₂ projects realized
H₂ applications enabled

2035

Establishment

H₂ use established in various
sectors
Integration into national H₂-
ecosystem implemented

H₂Vision

Governance

- We create **structure** for the emerging market
- We are the central **think tank** for H₂ topics



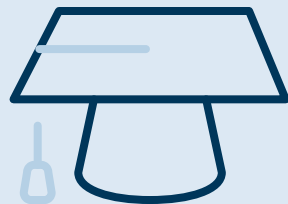
Ecosystem

We create a local
H₂ecosystem

- sustainable
- viable
- intersectoral

Research & Innovation

- coordinated
- connected
- close to applications



Partnerships

We establish partnerships

- national
- international
- for new future perspectives

H₂Stories

Hydrogen production

Hydrogen is produced in a waste-to-energy power plant. In this way, energy can be generated and residual materials can be used as recyclable materials.

International Excellence

Essen has a large number of international companies from the energy sector and industry. Their hydrogen expertise is bundled as a think tank.

Sustainable district solutions

New quarters are developed sustainably. Hydrogen solutions contribute to energy and heat supply.

Application-oriented research

Institutes in Essen are working intensively on various hydrogen technologies and applications.

Fueling infrastructure

Essen has a hydrogen filling station and a network of charging points. These mobility infrastructures are being expanded according to demand.

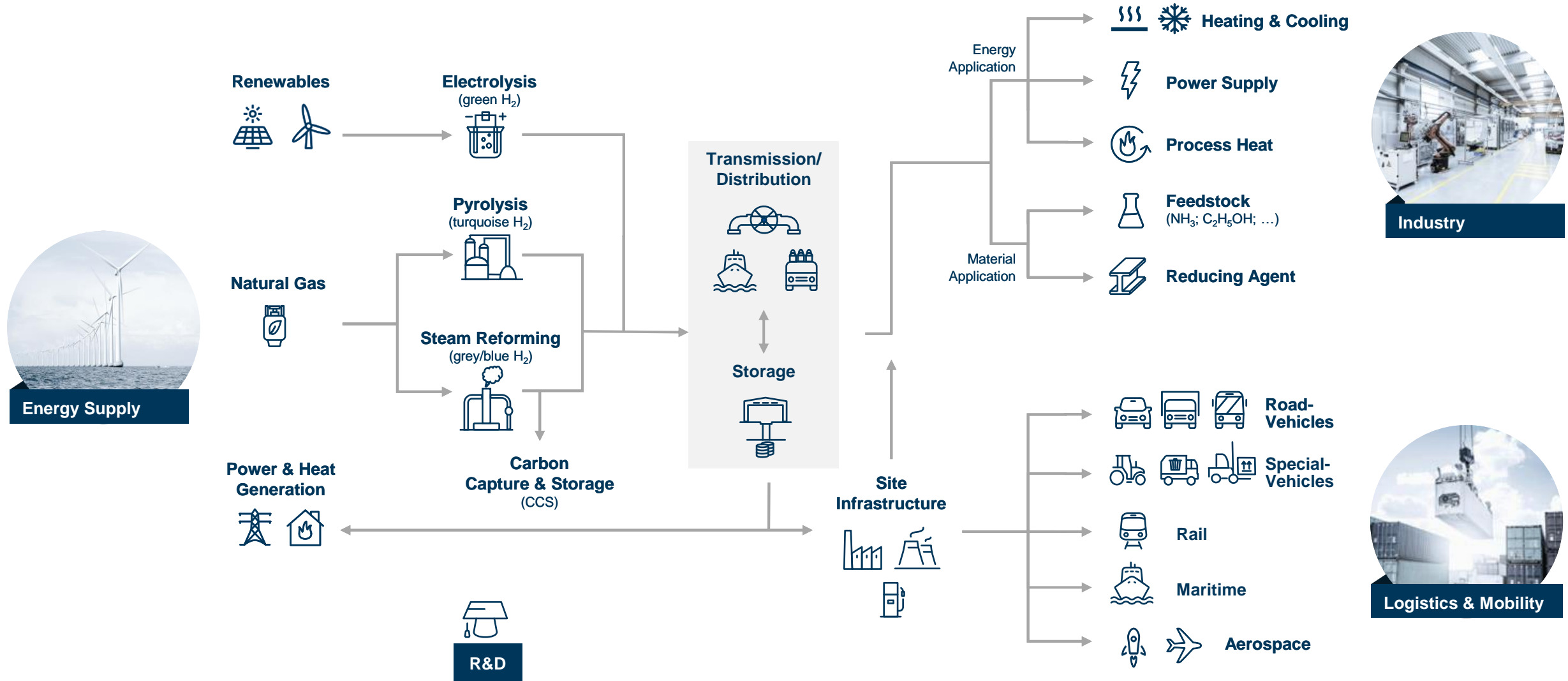
CO₂-neutral mobility

Urban vehicle fleets are consistently converted to climate-neutral drives.



H₂ Valuechain

Made in Essen



H₂Partnerships

We are happy to connect you

to our companies in industry, logistics and energy supply. They are already working on hydrogen projects in Germany and internationally.

We open markets

for Japan and Germany. We promote the transfer of knowledge and services between our countries.

We like to share our expertise

and provide impressions of our hydrogen roadmap and research in the Ruhr area. Many institutes and start-ups are already working on the development of hydrogen technologies and applications

If you are interested in

- our projects and research
- local companies
- Our markets for your products and services

please contact us:

