

ESSEN



ESSENER  
WIRTSCHAFTSFÖRDERUNGS  
GESELLSCHAFT MBH

## Energy industry in Essen

From energy generation and supply to energy technology and energy trading to energy research – Essen plays a leading role in the energy sector in Germany and throughout Europe. Here Germany's largest energy companies have their headquarters. From Essen, small and medium-sized companies, start-ups and renowned research institutions drive the development of innovative technologies and provide sustainable and climate-neutral solutions for the energy of tomorrow.

### FACTS AND FIGURES

**250**

Companies & institutions  
in the energy sector

Including RWE & E.ON  
two of the four largest German energy companies.

**14,300**  
Employees

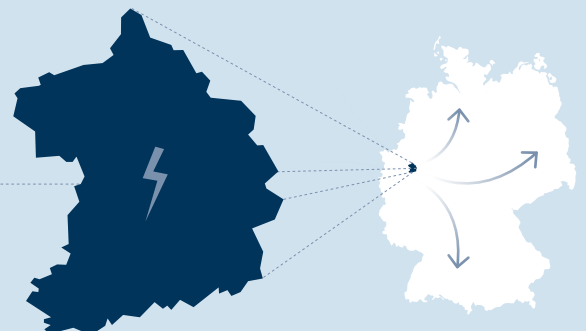
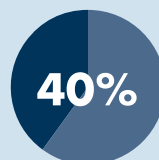
in the "Resource Efficiency" field



Essen-based companies supply energy to more than

**15,000,000**  
households in Germany.

**40%**  
of the nationwide  
electricity grid  
is controlled from Essen.



# The future of energy is decided in Essen!

## E-world energy & water

Leading trade fair of the international energy industry with more than

**800 exhibitors**

and more than

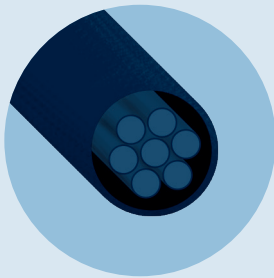
**25,000 visitors**

from all over the world

24/7

24 hours a day, 7 days a week:  
Essen is home to Europe's  
largest and most advanced

**energy trading floor.**



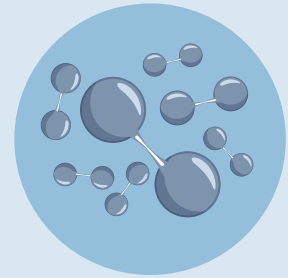
### AmpaCity

Underground superconducting cable with **10,000 volts** supplies the city centre of Essen with electricity – nearly loss-free and unique in the world.



### Virtual Battery

For a safe and stable power supply: **Essen aluminium smelter** serves as a "virtual battery" and compensates for fluctuations in the power grid – with a capacity of around **1,120** megawatt hours.



### H<sub>2</sub>think tank

With its own **H<sub>2</sub>vision** and numerous companies and competencies along the hydrogen value chain, Essen is on the way to becoming a leading H<sub>2</sub> city.

## Leading-Edge Cluster Industrial Innovations

Innovation platform with headquarters in Essen: The newly founded "Leading-Edge Cluster Industrial Innovations" of the state of North Rhine-Westphalia promotes climate-friendly and competitive future technologies – especially in the energy sector.

## Research & Teaching

Essen is home to numerous renowned R&D and educational institutions & networks – e.g. Gas- und Wärme-Institut Essen e.V., Haus der Technik e.V., KWS PowerTech Training Center, RWI – Leibniz Institute for Economic Research, Simulator Centre of KSG|GfS, University of Duisburg-Essen, Virtual Institute KWK.NRW.