

**RWE**

# Our energy for a sustainable life



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# Powerful concepts for a sustainable future

**Where would the world be without electrical energy? Electricity is our society's life blood: it means lighting and heating as well as production, communication and mobility. We all need electricity, and for more than 125 years, RWE has been supplying it – safely and reliably.**

How will electricity be generated in the future? One of the central challenges of our age is meeting increasing electricity demands while, at the same time, protecting our climate. This requires a global energy transition that opts for renewable power – with the wind and sun as key sources.

At RWE, we are convinced that renewable energy, storage technologies and hydrogen are the future. Along with flexible generation and customer solutions, they are our core business. Today, RWE is one of the world's leading companies in the field of renewable energy – a position we aim to expand, investing billions to do so. A clear objective: RWE will be carbon-neutral by 2040.

Our energy for a sustainable life: Our claim expresses the high standards we have set for ourselves. In the next pages, we will be talking in more detail about our sustainable power generation and our projects across the globe. We look forward to receiving your feedback!

**Your RWE**





# The energy transition is well underway at RWE

**RWE has demonstrated how we can make the energy transition work: our product is power, and always will be. To that end, we are significantly expanding renewable energies, vigorously investing in new technologies and phasing out coal by 2030. Sustainability is a key element of our strategy and corporate culture and is something we are embedding more broadly and deeply within the company: in 2040, RWE will be carbon-neutral.**

We have yet to take one decisive step of the energy transition, one that requires tremendous investments; however, RWE is in an excellent position to do so, from operative, financial and personnel perspectives. Thanks to a comprehensive investment and growth strategy, the company is on track to expand its international high-performance and green generation capacity to more than 50 gigawatts by 2030. In order to achieve that goal, RWE will invest more than €50 billion gross by 2030.

Solar power and large-scale wind farms, both on and offshore, are the foundation of the climate-friendly power we generate in many countries around the globe, supplemented by storage systems, flexible generation and hydrogen projects. While the technologies we use are global, the energy markets are national: besides Germany, we focus on markets in the European Union, Great Britain and the USA. We aim to be market leaders along the entire value chain and will be entering selected Asian markets together with our partners.

Our products – green electricity and, soon, green hydrogen – and our expertise in integrated energy markets make us a strong partner for decarbonising other business sectors, especially industrial ones. Some 19,000 RWE employees in over 20 countries are shaping the energy transition with expertise and passion: #TeamRWE is one of the most attractive employers for bright minds and talents.

*“Our sound financial footing allows us to fund our ambitious growth projects. We are investing billions to expand our portfolio – from wind and solar power stations to battery storage – and thus accelerate our transformation. Hardly any other company is changing as radically and rapidly as RWE.”*

**Dr. Michael Müller**  
CFO RWE AG

*“The energy transition is well underway at RWE! Green power, storage systems, flexible generation, hydrogen and customer solutions: when it comes to advancing our core business, we consider the long-term prospects, which make decarbonisation and sustainability key components of our corporate strategy – with a clear objective: We aim to become carbon neutral by 2040.”*

**Dr. Markus Krebber**  
CEO RWE AG

*“RWE is one of the most attractive employers. We want to recruit the best minds and foster our own talent. At RWE, they have the opportunity to dedicate their energy to creating a sustainable future. #TeamRWE is characterized by diversity and trustful cooperation embedded in modern workspaces. Our employees are the strong basis of our joint success.”*

**Katja van Doren**  
CHO RWE AG



**Learn more about RWE at [rwe.com](https://www.rwe.com).**

# We have set ourselves a goal: carbon neutrality by 2040



## Comprehensive climate protection – scientifically approved

**By 2040, RWE will be carbon neutral. To that end, we have set ourselves ambitious targets for all activities that cause greenhouse gas emissions. Our interim targets for 2030 have been independently validated by the renowned “Science Based Targets Initiative”: Our objectives are in line with the Paris Agreement.**

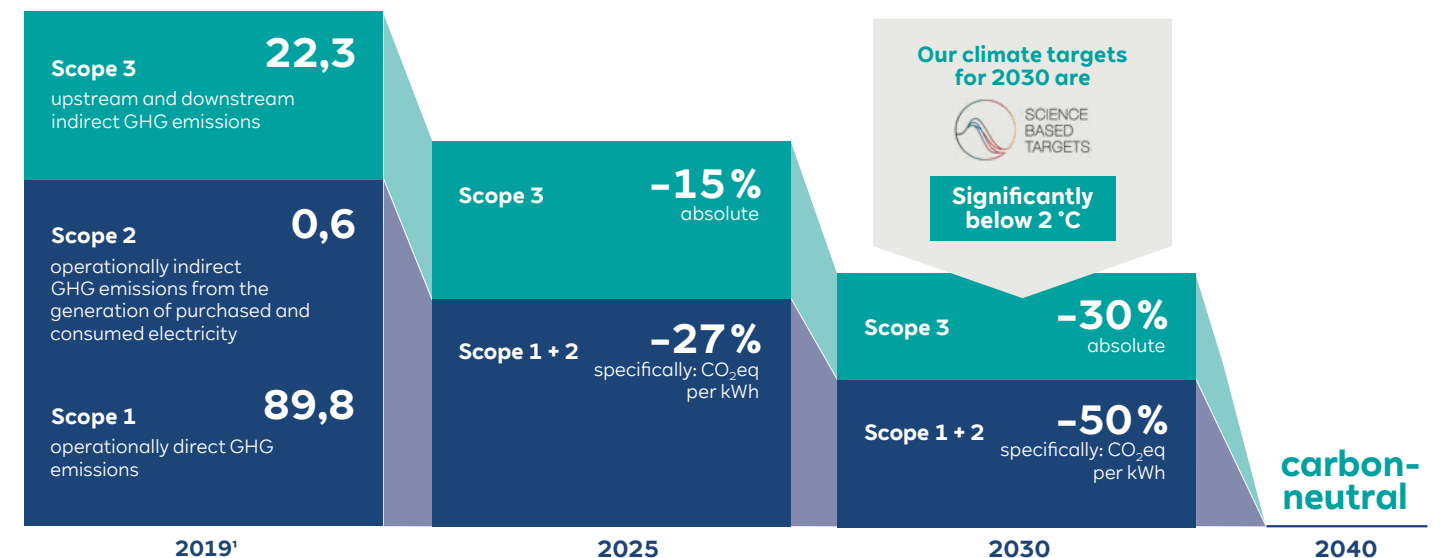
We are, therefore, investing more than 50 billion euros gross in a green energy world of tomorrow. This will enable us to meet the growing demand for electricity in the best possible way and to simultaneously protect the climate. We have also expanded our climate protection objectives to include all of the Group’s activities and aim to ensure that RWE’s total ecological footprint is even more sustainable.

Reducing greenhouse gas emissions to zero is a complex process and impacts a number of different levels. In addition to direct emissions (Scope 1), a distinction is made between indirect emissions from purchased energy (Scope 2) and from the upstream and downstream value chain (Scope 3).

In order to reduce our greenhouse gas emissions in all areas, we have set comprehensive targets and had them validated by a renowned and independent initiative: our Science Based Targets. That means: RWE is committed to reducing greenhouse emissions arising from Scopes 1 and 2 by 50 % per MWh by 2030, compared to 2019. We aim to reduce Scope 3 emissions by 30 % by 2030.

RWE has a clear roadmap in place to reduce direct emissions: In the UK and Germany, the last hard coal-fired power plants have already been taken off the grid, and we are currently converting the plants in the Netherlands to biomass. The phase-out of lignite-based electricity generation is scheduled to take place by 2030. To achieve the objectives related to Scope 3 emissions, we will increasingly consider sustainability standards in our procurement process, among others.

Between 2012 and 2022 alone, we reduced the CO<sub>2</sub> emissions of our generation portfolio by 54 %. We will continue to build upon that success! We will consistently implement our strategy to reduce our emissions and drive forward the expansion of our green portfolio.



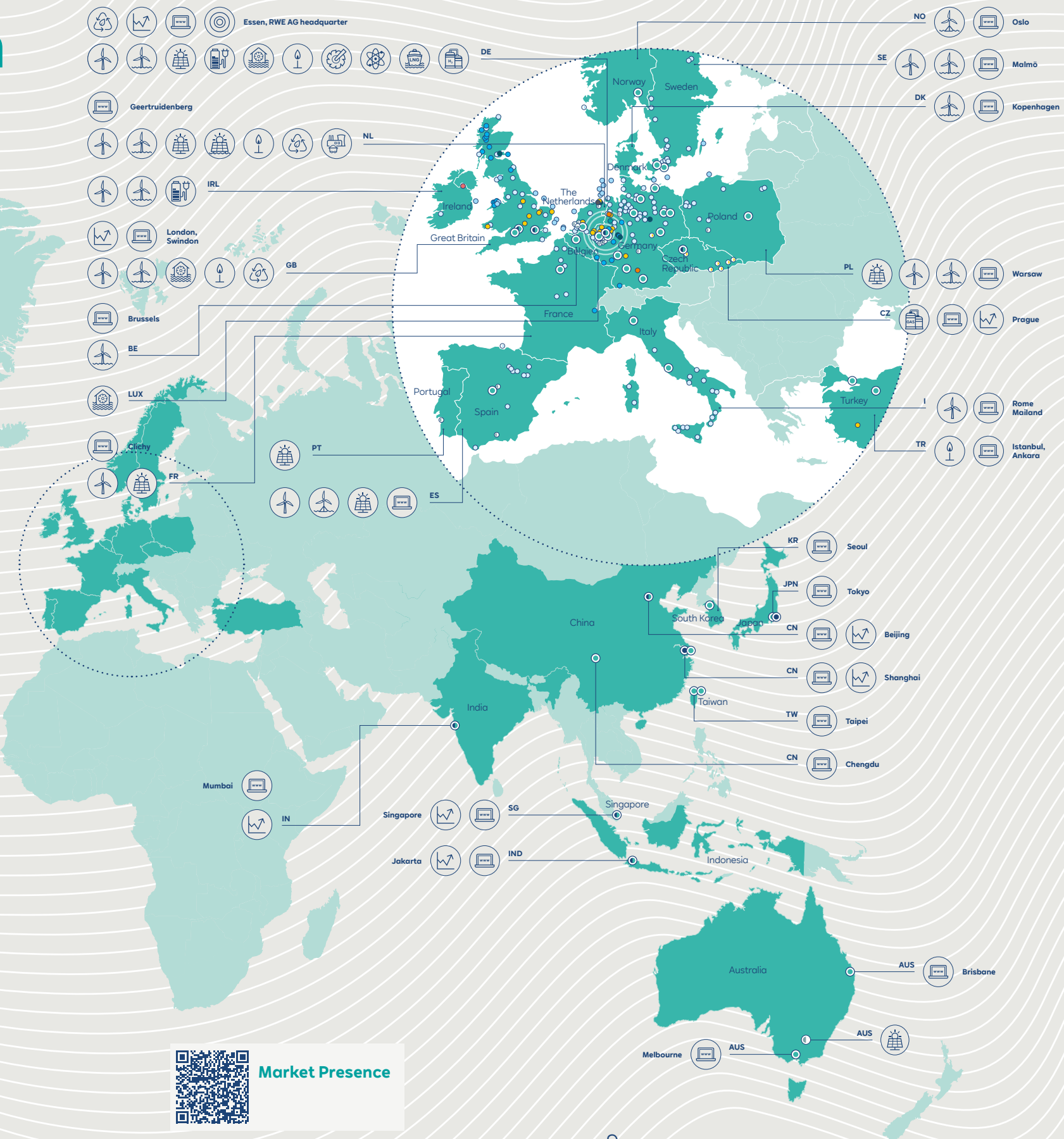
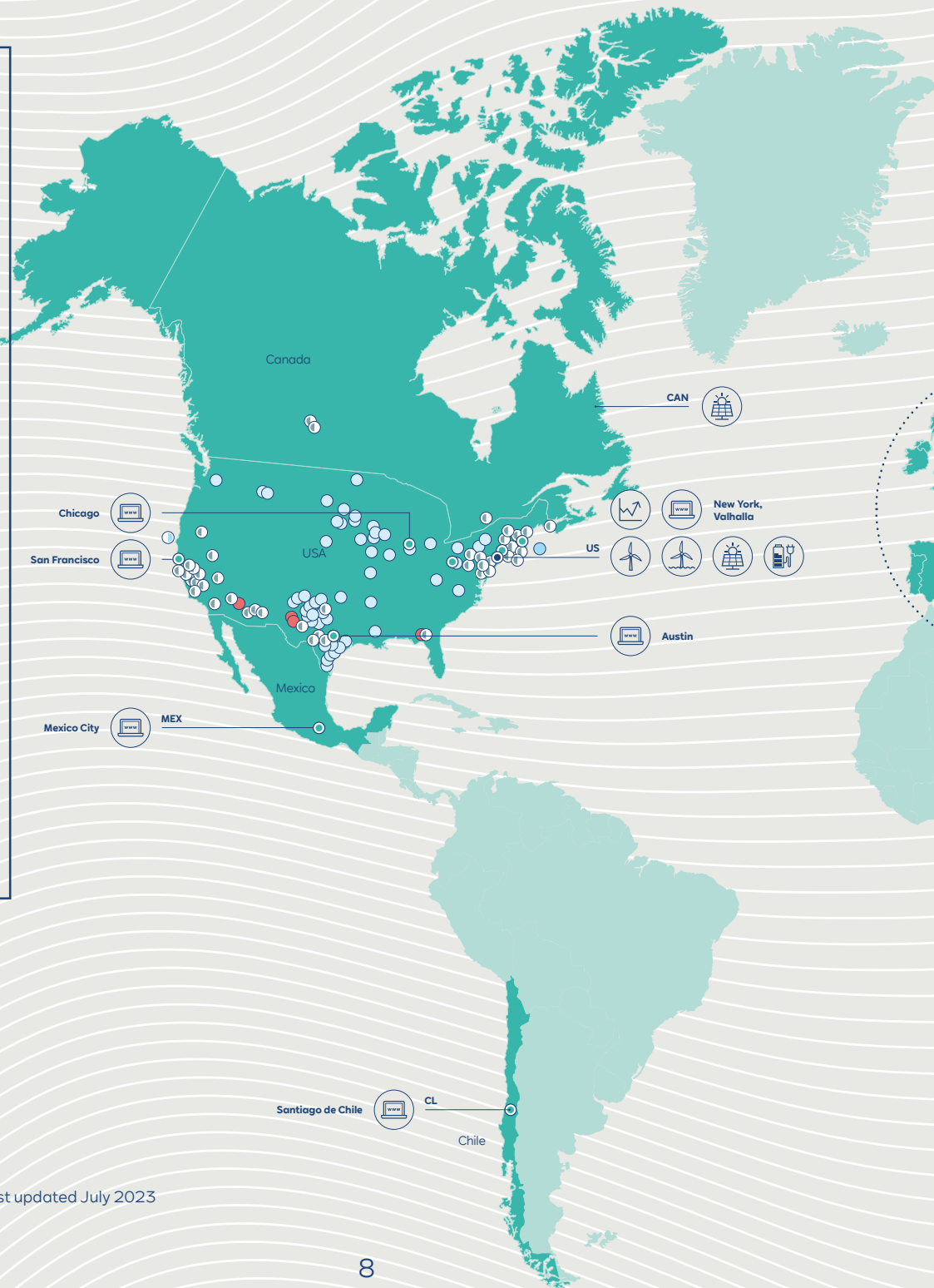
<sup>1</sup>2019 is the baseline year of our science-based target. | Note: Figures in m tons of CO<sub>2</sub> equivalents. Further information about our CO<sub>2</sub> footprint is available at [www.rwe.com/emissions](http://www.rwe.com/emissions).

An overview of RWE locations

# Global activities – with a course set for growth

**RWE RENEWABLES**

- Onshore
- Offshore
- Offshore floating
- Solar
- Solar floating
- Battery storage
- Gas
- Hydro
- Biomasse
- Hard coal
- Hydrogen
- Lignite
- Nuclear
- Offices (city)
- Gas storage
- LNG
- RWE AG headquarters
- Offices (city)
- Market presence



**Market Presence**

Schematic representation: last updated July 2023

Six subsidiaries – one RWE

# An excellent position across the board

**Electricity is the most important driving factor for innovation and modernisation of our time. Our society is challenged with meeting increasing electricity demands while at the same time protecting the climate. Our contribution is crucial.**

Our focus is clearly on future technologies: Renewable energies – solar, onshore and offshore wind, hydrogen and storage technologies. Our flexible power station fleet in the core markets

of Germany, Benelux and the United Kingdom helps to ensure a reliable supply of electricity. In addition, we have already phased out nuclear energy and are working towards phasing out coal as an energy source by 2030. Our electricity generation is supported by a trading company, which is the interface to the energy markets around the world. Each company has its own focus, but our common purpose is clear: “Our energy for a sustainable life”. Approximately 19,000 people at

RWE are working toward that end, and they have set themselves an ambitious goal: to be carbon-neutral by 2040.

Six subsidiaries operate under the umbrella of RWE AG. RWE Offshore, RWE Renewables Europe & Australia, RWE Clean Energy, RWE Generation, RWE Supply & Trading and RWE Power are jointly driving the energy transition forward in various fields.



## RWE Core business

## Coal/Nuclear energy



### RWE Offshore Wind

The energy company is globally active and is focused on sustainable power generation that is based on offshore wind power; it employs around 2,000 people. The international focus is on Europe, the US and selected markets in Asia. With more than 20 years of experience in the offshore sector and 19 operating offshore wind farms that have a current installed capacity of more than 3 GW, the company is active along the entire value chain – from project conception and development to construction, operation and maintenance.



**Sven Utermöhlen**  
Chief Executive Officer (CEO)



### RWE Renewables Europe & Australia

The company is one of the leaders when it comes to renewable energies in Europe. In concrete terms, that means: approximately 1,500 highly qualified employees are driving the expansion of renewables in 11 countries. The core markets in Europe and Australia are the primary focus. The main priority is the expansion and construction of onshore wind farms, solar power plants and battery storage systems.



**Katja Wünschel**  
Chief Executive Officer (CEO)



### RWE Clean Energy

The company is active in the renewable energy sector in the USA and has an exceptional track record in the development, construction and operation of plants. Its team in the USA consists of more than 1,500 employees. Its green portfolio, which has an installed capacity of around 8 gigawatts (GW), consists of onshore wind, solar and battery storage. The company is thus ranked fourth in the renewable energy market in the USA and second in the solar sector. With a project pipeline of more than 24 GW, the company has one of the largest development platforms in the USA.



**Mark Noyes**  
Chief Executive Officer (CEO)



### RWE Generation

The company ensures the flexible supply of electricity in Germany, Great Britain and the Netherlands. Roughly 3,000 employees efficiently produce electricity from gas, hydropower and biomass at the power stations there. Thanks to its fleet of gas-fired power plants, the company ranks second in Europe. RWE Generation is where RWE bundles its hydrogen activities. In cooperation with partners from various industries and scientific fields, we are working on more than 30 hydrogen projects.



**Roger Miesen**  
Chief Executive Officer (CEO)  
Chief Operating Officer (COO)



### RWE Supply & Trading

The company is the interface between RWE and the energy markets all over the world. Around 2,000 employees from 50 countries trade in electricity, gas, commodities and CO<sub>2</sub> certificates. Based on precise market analyses and a high degree of customer orientation, they create innovative solutions for energy supply as well as concepts for the risk management of industrial companies. The trading company also ensures the commercial optimisation of the RWE power plants, operates storage for natural gas, and markets renewables generated by RWE Renewables, concluding individual, long-term energy supply agreements with industrial partners.



**Andree Stracke**  
Chief Executive Officer (CEO)



### RWE Power

With its approximately 9,000 employees, the company bundles the generation of electricity and heat from lignite and the safe dismantling of the former nuclear power stations. In April 2023, we phased out nuclear energy with the shutdown of the last nuclear power station. We are consistently pursuing the statutory, step-by-step phase-out of coal by 2030. Until then, the power plants in the Rhenish area will remain a cornerstone of security of supply in Germany. In addition, we are already in the process of developing projects for the future at RWE Power's sites.



**Dr. Frank Weigand**  
Chief Executive Officer (CEO)

# A passion for renewables – worldwide

Renewable energies are the path to a sustainable future. RWE Off-shore, RWE Renewables Europe & Australia and RWE Clean Energy have made RWE one of the world's leading companies in the field of renewable energies.

The foundation of our climate-friendly electricity production is made up of wind farms at sea ("off-shore"), on land ("onshore") and solar plants. Powerful storage technologies go hand in hand with this.

Thanks to our green portfolio of wind power and solar plants as well as battery storage facilities, we supply green energy all over the world and thus also support industrial decarbonisation.

By 2040, RWE will be carbon-neutral. We are steadily expanding our renewables in order to reach that goal. By 2030, we intend to have a strong and balanced green profile with an installed capacity of over 50 GW.

By combining different technologies in our hybrid projects, we can optimise value chains directly from the source.






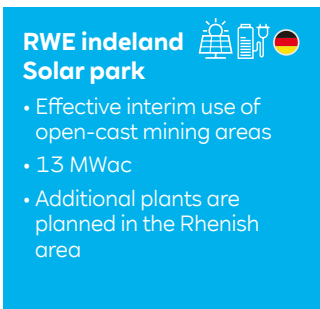
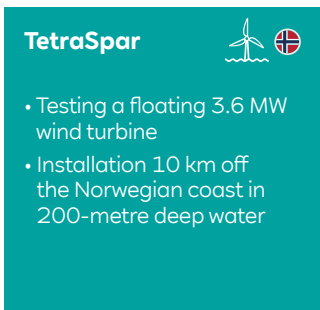







We are also pioneering new technologies, such as floating wind turbines at sea, recyclable rotor blades, agri-photovoltaics on agricultural land and much more. We also support the transformation of communities and municipalities with sustainable projects.

## Our range of services along the entire value chain



\*Levelized Cost of Energy

## Selection of our Renewables projects

<b>Sofa</b>  <ul style="list-style-type: none"> <li>1.4 GW project in the North Sea</li> <li>RWE's largest offshore project</li> <li>Many of our turbines are equipped with recyclable rotor blades</li> </ul>		<b>TetraSpar</b>  <ul style="list-style-type: none"> <li>Testing a floating 3.6 MW wind turbine</li> <li>Installation 10 km off the Norwegian coast in 200-metre deep water</li> </ul>		<b>Mega battery 117+</b>  <ul style="list-style-type: none"> <li>117 MW battery storage in Lingen and Werne</li> <li>Virtual coupling with hydropower plants on the Moselle River can provide additional capacity</li> </ul>
<b>Limondale</b>  <ul style="list-style-type: none"> <li>Solar plant with an installed capacity of 249 MWac</li> <li>The solar park consists of 872,000 modules on an area of 770 hectares</li> </ul>		<b>RWE inland Solar park</b>  <ul style="list-style-type: none"> <li>Effective interim use of open-cast mining areas</li> <li>13 MWac</li> <li>Additional plants are planned in the Rhenish area</li> </ul>		<b>Agri PV</b>  <ul style="list-style-type: none"> <li>Solar power and agriculture in the Rhenish area</li> <li>Demonstration plant planned on 7 hectares</li> <li>Cooperation with Jülich Research Centre</li> </ul>
	<b>Baron Winds</b>  <ul style="list-style-type: none"> <li>32 onshore wind turbines with 122 MW capacity in the US state of New York</li> <li>Produces enough electricity for 50,000 households per year</li> </ul>		<b>Hickory Park</b>  <ul style="list-style-type: none"> <li>195.5 MWac solar plant in southwest Georgia</li> <li>Combination with 40 MW battery storage system</li> <li>30-year power purchase agreement</li> </ul>	
<b>Selinus</b>  <ul style="list-style-type: none"> <li>Sustainable "blade-lift" technology used to transport rotor blades</li> <li>17. Onshore wind farm in Italy with 25 MW in Sicily</li> <li>Will supply 22,000 households with green electricity</li> </ul>		<b>Thor</b>  <ul style="list-style-type: none"> <li>1 GW offshore project in Denmark</li> <li>Towers made of environmentally friendly steel to reduce CO<sub>2</sub> emissions by at least 63 percent</li> </ul>		<b>220-MW+ Battery storage</b>  <ul style="list-style-type: none"> <li>Battery storage at the Neurath and Hamm power stations</li> <li>Innovative combination with other technologies</li> <li>Construction scheduled to begin in the summer of 2023</li> </ul>

### Legend

-  Major International Projects
-  Innovation Projects
-  Hybrid Projects
-  Transformation projects

# Green hydrogen drives the energy transition

**From steel production to refineries to aviation: The demand for clean energy is constantly on the rise. We have already begun pushing ahead with hydrogen, the technology of the future, at full throttle. RWE has the necessary knowledge and extensive experience in the development of Hydrogen in many countries**

## Our Mission

RWE has a clear objective: carbon-neutral by 2040. Green hydrogen is the key – for industrial and transport applications, for electricity and heat.

## Advantages of green H<sub>2</sub> via electrolysis

- Emission-free production and use
- Safe to transport, store and handle
- Flexible use as an energy carrier and raw material for industrial applications
- Basis for the production of e-fuels, especially for trucks, aircraft and ships
- Minimal use of land, high social acceptance
- Partial re-use of existing gas infrastructure

## Solid expertise along the entire value chain



Green H<sub>2</sub> production



Customer solutions, incl. reverse power generation



Renewable Energy



Logistics (Storage & International Trade)



**Development Pipeline**  
**10 GW**  
projects in the early stages of development

### GET H<sub>2</sub>

- 300 MW electrolysis plants planned by 2026
- Transport via 130 km of pipeline to the Ruhr area
- Industrial and refinery use
- Funding requested within the framework of the European IPCEI-H2

### Equinor

- 2 GW low-carbon H<sub>2</sub> production in Norway by 2030
- Projects for offshore H<sub>2</sub> generation and injection into the pipeline network
- Support for offshore H<sub>2</sub> pipeline between NOR and GER
- 3 GW hydrogen-capable gas-fired power plants in GER with 50 % vol hydrogen input by 2030

### Oranjewind Wind Farm (HKW VII)

- Construction of the Oranjewind offshore wind farm in the North Sea some 53 km off the Dutch coast
- Over 760 MW capacity
- Generation of green H<sub>2</sub> and solutions for full system integration

### H2 Brunsbüttel

- Cooperation between RWE and German LNG Terminal GmbH
- Feasibility study on H<sub>2</sub> import via LNG terminals

### NorthH<sub>2</sub>

- Infrastructure for green hydrogen in the Netherlands
- 4 GW electrolysis capacity by approx. 2030
- Large-scale industrial H<sub>2</sub> production with energy from offshore wind farms

### H2ercules

- 1,500-km hydrogen pipeline from northern Germany via the Ruhr area and Hesse to Baden-Württemberg and Bavaria
- Construction of 1 GW of additional electrolysis capacity in northern Germany

### Pembroke Green Hydrogen

- Development of a hydrogen economy for industrial sectors in Wales
- 100 MW electrolysis plant at RWE's Pembroke gas-fired power station

### FUREC

- Innovative project involving the production of hydrogen from residual materials
- Making production processes sustainable
- €108 million in funding from EU innovation fund pledged

### HySupply and H2U

- HySupply explores opportunities for a German-Australian hydrogen partnership
- H2U develops hydrogen projects in Australia and New Zealand

### Eemshydrogen

- Construction of a 50-MW electrolysis plant
- Connection to the Westereems wind farm
- Potential customers at the nearby Delfzijl chemical industrial park

### HyTech Hafen Rostock

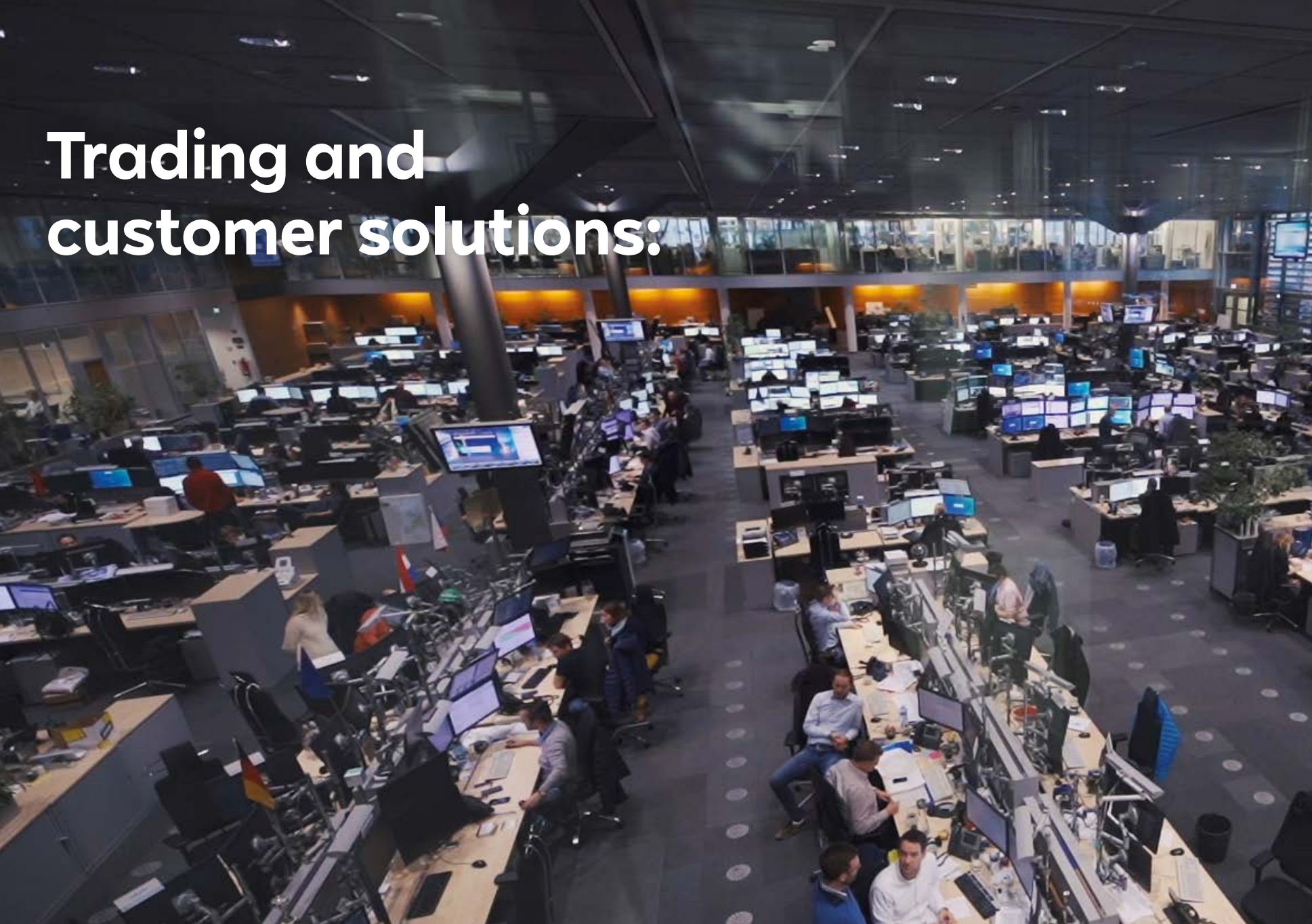
- Cooperation with local players
- 100 MW Electrolysis on land
- Use in transport, industrial or heating applications

### AquaVentus

- Electrolysers at sea on an industrial scale
- First pilot project: an innovative offshore wind hydrogen turbine



# Trading and customer solutions:



**We are a strong partner on our way to a renewable future: We cover the entire range of safe and clean electricity generation. From wind farms, solar and hydropower plants to flexible, conventional power stations: These different “worlds” all converge at RWE Supply & Trading, our international trading company.**

The company specialises in energy trading, key account solutions, optimising the use of power stations

and marketing gas storage capacities; these storage systems are a key component in securing the natural gas supply. Our RWE Supply & Trading specialists trade electricity, gas, commodities and CO<sub>2</sub> certificates, 24 hours a day, seven days a week – in Essen, on one of Europe’s largest commodity trading floors, as well as in London, Prague and New York, and in growth markets, in particular Asia, with representations in Singapore, China and Japan. Now that we have integrated



our RWE Supply & Trading specialists trade electricity, gas, commodities and CO<sub>2</sub> certificates,

renewables, we can offer our customers tailored, one-stop solutions, such as the combination of renewables and balancing energy or conventional power. Among other clients, Deutsche Bahn buys its “green” electricity, generated using water and solar energy, from RWE Supply & Trading.

To give another example: the company will also take over the entirety of electricity generated by Belgian offshore wind park Northwester 2.

# Linking energy worlds

The company markets the Northwester 2 wind farm. Our growing portfolio enables us to enlarge our offer of attractive renewable products. In order to optimise the use of RWE power stations, RWE Supply & Trading works closely with the operative units of RWE Power and RWE Generation.

The company is thus supporting the Federal Government in strengthening the security of supply in Germany in the short term and in moving away from a one-sided energy dependency as quickly as possible.

RWE Supply & Trading



**How much power is needed from which power station, and when? What happens in cases of unexpected outages?**

These are just some of the aspects that influence the utilisation of power stations. Since the weather has become an increasingly important factor, RWE Supply & Trading experts analyse not only market, but also weather data. We are also active in the markets of the future, such as gas and LNG (liquefied natural gas).

For example, RWE is involved in major projects, such as the construction of the LNG terminals in Brunsbüttel (Elbe port LNG) and in Lubmin (Baltic Sea LNG). Furthermore, RWE has chartered two special ships on behalf of the German government to import liquid gas and feed it directly into the German gas grid.

# Assuming responsibility across the board

## RWE is shaping the sustainable future of energy supply worldwide.

As part of society and as a major player in the global energy market, we are aware of the responsibility that this entails. We fulfil this commitment every day by living by the clear principles of our corporate and social actions.

Each individual at RWE – Executive Board members, managers, colleagues – plays a part in acting responsibly towards fellow human beings as well as the environment.



We make particular contributions to the seven relevant Sustainable Development Goals defined by the United Nations.


At RWE, taking responsibility means integrating socially relevant issues into our corporate decision-making processes.

That involves taking into account the needs of the environment, looking beyond one's own sphere of competence and considering company-related activities from an ecological, social and ethical perspective.

From environmental and climate protection to social issues and human rights to responsible corporate governance – RWE lives up to its corporate responsibility in numerous ways.

## Our energy for a sustainable life.

### Responsibility and sustainability

**>€50 billion**

gross, by 2030, is the amount we are investing in the green energy world of tomorrow.



We are committed to supporting the Paris Agreement on Climate Change, the UN Global Compact and the UN SDGs.




**20%**

of our Executive Board members across all business areas are women.



**>€5 million**

invested in local communities in 2022.



**35 TWh**

of electricity from renewable energy sources.



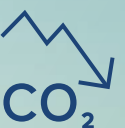
**1,847**

new employees started working at RWE in 2022.



**1184**

patents and patent applications in 2022.



**54%**

reduced CO<sub>2</sub> emissions in our generation portfolio between 2012 and 2022.





**#TeamRWE: shaping the energy world of tomorrow with our passion!**

**Our energy for a sustainable life.**

**Publisher**

RWE AG  
Communications & Energy Policy  
Stephanie Schunck  
(responsible according to  
German press law)  
RWE Platz 1  
45141 Essen  
Germany  
rwe.com

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