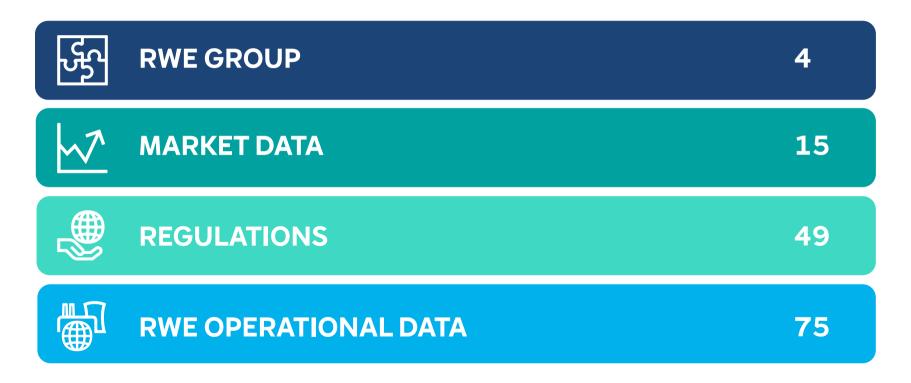


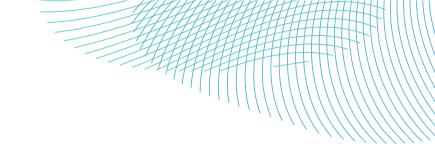
Factbook 2019

Disclaimer

This document contains forward-looking statements. These statements are based on the current views, expectations, assumptions and information of the management, and are based on information currently available to the management. Forward-looking statements shall not be construed as a promise for the materialisation of future results and developments and involve known and unknown risks and uncertainties. Actual results, performance or events may differ materially from those described in such statements due to, among other things, changes in the general economic and competitive environment, risks associated with capital markets, currency exchange rate fluctuations, changes in international and national laws and regulations, in particular with respect to tax laws and regulations, affecting the Company, and other factors. Neither the Company nor any of its affiliates assumes any obligations to update any forward-looking statements.

Contents











Driving force behind the energy transition – with a powerful position

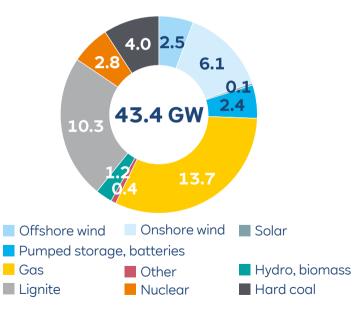
Well established robust company with strong financial performance	120 year track record	>20,000 employees	~€17 bn market cap¹	157% total shareholder return 2017-2019	€1.8 bn dividend payments 2017-2019 ²
Experienced operator of flexible assets and strong commercial platform	~43 GW generation portfolio	~ 153 TWh power generated	2.4 GW pumped storage/ batteries	35 bcma³ total gas sales portfolio	Top 500 blue chip customers rely on RWE's commodity solutions
A global leading renewables player with strong growth ambitions	#2 in offshore worldwide	~9 GW wind & solar capacity	2.7 GW under construction	>20 GW development pipeline	~€1.5-2.0 bn net investment per annum

¹As of 31 Dec 2019. |² Dividend proposal of €0.80/share for 2019 fiscal year subject to the passing of a resolution by the 2020 Annual General Meeting. I ³ Billion cubic metres per annum.



Unique renewables and conventional generation portfolio combined with leading commercial platform

RWE's net generation capacity¹ (pro rata)



Global leader in renewables



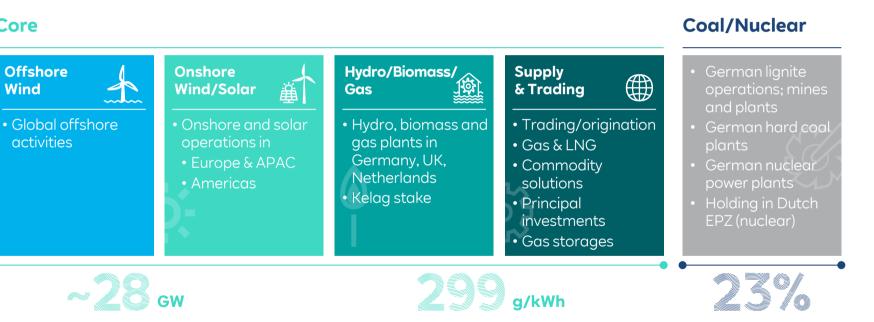
- Leading European generator with diversified and balanced generation technologies
 - No. 🥏 gas fleet in Europe
 - $19\,\mathrm{GW}$ installed flexible hydro, biomass and gas portfolio^2
- Significant gas portfolio player

4.3 bcm³ of gas storage

- Strong commercial platform
 - $\sim\!\!1,\!045 \text{ twh} \text{ electricity } \& \sim\!\!550 \text{ bcm} \text{ gas traded p.a.}$

Note: Figures may not add up due to rounding differences. I¹As of 31 Dec 2019. I² Includes 1.6 GW hard coal generation in the Netherlands which co-fires biomass. I³ Billion cubic metres.

Business model fully aligned with our strategic focus on the energy transition



સ્ટે RWE Group

Carbon factor²

Share of coal in **Group revenues**

¹ Pro rata installed capacity of core business. ¹² Calculated for pro forma generation portfolio of core business. I Note: Figures for FY 2019.

Installed capacity¹

Core

Wind

RWE's Executive Board



Dr. Rolf Martin Schmitz

Chairman of the Executive Board and Chief Executive Officer (since 10/2016)

Born in 1957 in Monchengladbach; doctorate in engineering.



Member of the Executive Board of rhenag Rheinische Energie AG (1998-2001); Member of the Board of Management of Thüga AG (2001-2004); Chairman of the Board of Directors of E.ON Kraftwerke GmbH (2004-2005); Chairman of the Executive Board of RheinEnergie AG and Managing Director of Stadtwerke Köln (2006-2009).

RWE

Chief Operating Officer National of RWE AG (05/2009 - 09/2010); Chief Operating Officer (10/2010-10/2016) and concurrently Deputy Chairman of the Executive Board (07/2012 - 10/2016); Chairman of the Executive Board and Chief Executive Officer of RWE AG since 10/2016; concurrently Labour Director of RWE AG since 05/2017.



RWE Group

Chief Financial Officer (since 10/2016)

Born in 1973 in Kleve; Banker; doctorate in economics.

Management Consultant at McKinsey & Company (2000 - 2005); various management positions at Commerzbank AG (2005 - 2012).

Ż

RWE

Managing Director and Chief Financial Officer of RWE Supply & Trading GmbH (11/2012 – 08/2016); Chief Executive Officer of RWE Supply & Trading GmbH (03/2015 – 05/2017); Chief Financial Officer of RWE AG since 10/2016.

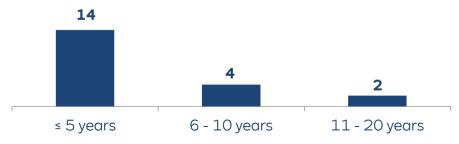
20 Board Members

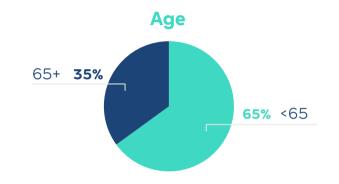
Supervisory Board

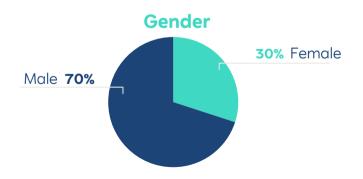
shareholder representatives elected by the Annual General Meeting

• employee representatives elected by the employees of RWE AG & its group companies

Board Tenure in Years





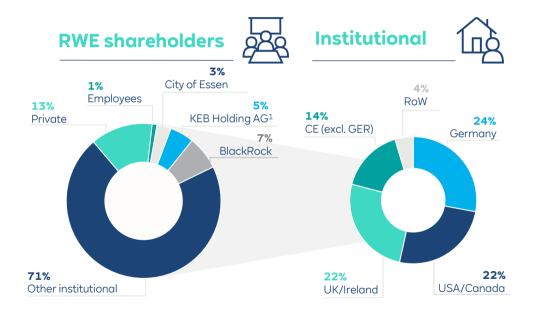


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Shareholder structure of RWE AG



Share indicato	rs		B
		2018	2019
No. of common shares	thousands	575,745	614,745
No. of preferred shares ²	thousands	39,000	-
Total number of shares	thousands	614,745	614,745
Share price of common share ³	€	18.97	27.35
Share price of preferred share ³	€	18.84	-
Market capitalisation ³	€ billion	11.7	16.8

Note: As of the beginning of Jan 2020. |¹ Backed by the City of Dortmund. |² Preferred shares converted into common shares mid-2019. |³ End of fiscal year.

RWE March 2020 Factbook 2019

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¹ Rounding differences may occur; new net debt definition, excluding financially ring-fenced mining liabilities and financial assets (receivables against German government). I Note: RWE Annual Report 2019 page 62 shows old definition of net debt. |² Net debt/pro forma core adj. EBITDA; pro forma: new business segmentation and inclusion of E.ON's acquired assets for full fiscal year 2019. |³ First call date 21 Oct 2020.

Financial assets	9.1				
Financial liabilities Adjustment for hybrid capital	5.7 -0.5				
Net financial assets (incl. hybrid capital adjustment)	3.9				
Provisions for pensions and similar obligations	3.3				
Provisions for nuclear waste management	6.7				
Provisions for dismantling wind farms					
Net debt of continuing operations	7.0				

RWE net debt (as of 31 Dec 2019)¹ (€ bn)

Capital structure



- Targeted **leverage factor** (net debt/core adj. EBITDA) of $\leq 3.0x$ •
- Net debt of €7.0 bn after **financial ring-fencing** of coal phaseout liabilities
- Focus on maintaining investment grade rating with target of at least Baa2/BBB

RWE's issuances - hybrid bonds

- in April 2015 • in April 2015
- in June 2015
- (€539 m, 2.75%, 10/2020)³ (€282 m. 3.50%, 04/2025) (\$317 m, 6.625%, 03/2026)



Credit Rating



RWE: BBB, Stable Outlook

- On **26 March 2020** Fitch affirmed its rating view for RWE at BBB with a stable outlook
- The affirmation of the ratings reflects RWE's expansion in the renewables business, improved credit profile due to the quasi-regulated character of the company's new business and greater visibility over conventional generation provided by the coal exit agreement
- The expansion in the renewables business is positive for RWE's credit profile as it contributes to earnings stability and lowers the company's carbon footprint
- Fitch also considers the agreement on coal phase out as supportive of RWE's credit profile, because it eliminates uncertainty and increases visibility around the future performance of lignite operations.

Moody's

RWE: Baa3, Positive Outlook

• On **12 March 2020** Moody's updated its rating view for RWE and changed the rating outlook to positive from stable. At the same time the rating agency confirmed the Baa3 issuer rating and the short-term rating of P3

RWE Group

- The outlook change to positive reflects Moody's view that RWE's business profile is improving with its ongoing transformation from a pure conventional power generator to a power company with an increasing share of EBITDA generated from contracted renewable assets
- The positive outlook also incorporates Moody's view that RWE will maintain solid operating and financial performance
- It also takes into account the increased visibility into RWE's exit from lignite, where compensation of €2.6 billion from the Government of Germany will partly fund the associated longterm liabilities



RWE is strongly committed to the UN Sustainable Development Goals

Seven SDGs were defined as material in relation to the business activities of RWE



Moving to net zero emissions and a sustainable energy system



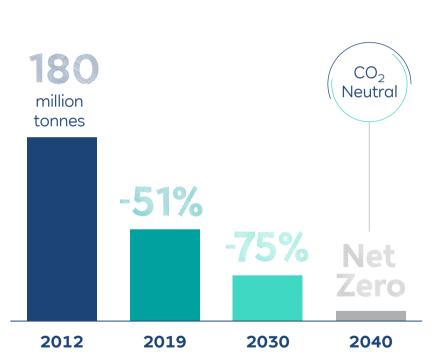
 CO_2

Target to achieve **CO₂ neutrality** for our global generation portfolio by **2040**

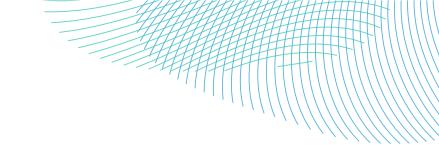




Proven **track record** of carbon emission reductions



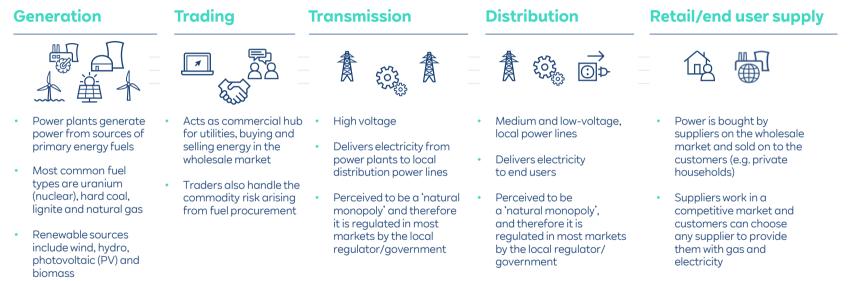
RWE Group





The electricity market





 In a few markets retail remains regulated, e.g. Italy

Merit order



- Power price is set by auction principle
- **Consequently, prices are set by marginal costs.** All available generating units in a given region will bid their units according to the individual variable operating costs, with the exception of those plants enjoying priority of dispatching
- All dispatched plants get paid the same price
- Generators' gross margin is the difference between the market clearing price for power and their individual variable costs

What moves the price?

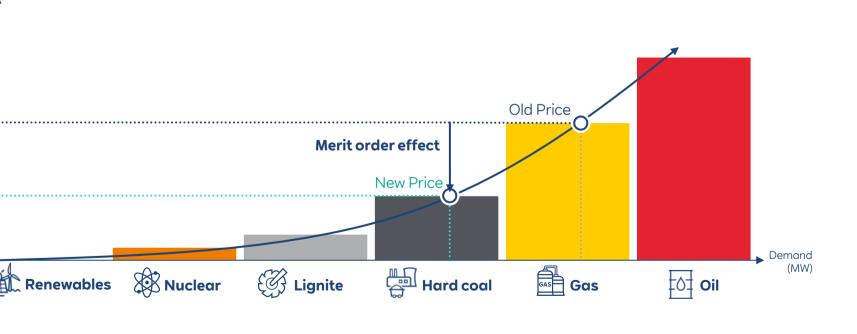
- **Commodities (coal, gas):** Fuel is the single largest variable cost item for most generators. Commodity prices therefore have the largest impact on power prices in the (near) term
- CO₂ price: The CO₂ price is added depending on emission factor to each plant's marginal costs and therefore passed through to the customer. Power plants that emit less carbon than the marginal plant would benefit from an increasing CO₂ price and vice versa
- **Taxes:** Taxes can be applied to specific technologies/fuels or to the electricity price. Taxes on the fuel of the marginal plant are passed through to customers. If the tax rate varies by technology, it can lead to merit order changes
- **Supply/Demand:** More supply shifts merit order to the right, while less demand results in lower prices and vice versa
- The merit order refers to the order of use of power plants, determined by the marginal costs of generation technology





RWE March 2020 Factbook 2019

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Merit order model

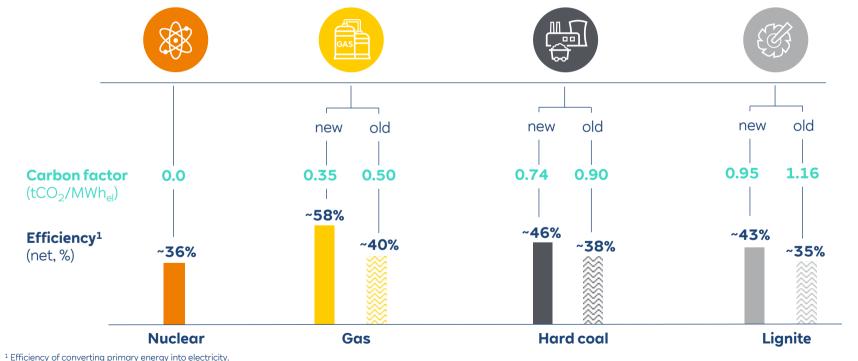
Price (€/MWh)



illustrative

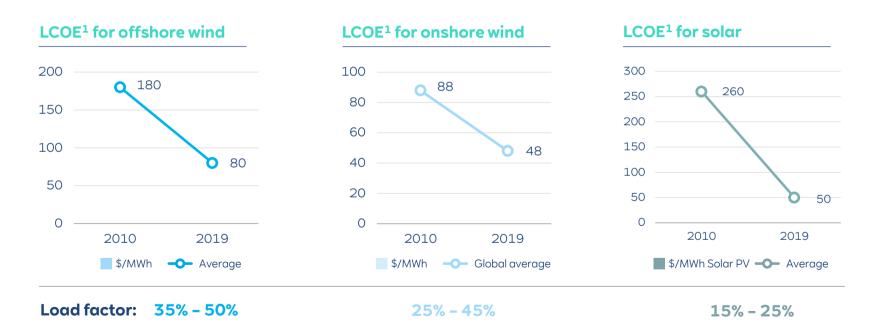


Carbon factors and efficiencies by type of power plants





Levelised Cost of Electricity and load factors by technology



¹ Historic benchmark of Levelised Cost of Electricity (\$/MWh, nominal); global scope. I Source: BNEF.

RWE March 2020 Factbook 2019

Ancillary services¹

Continuous balancing of power supply and demand

The balancing market:

- A market operated by Transmission System Operators (TSOs) to maintain the power/frequency balance
- It is needed to ensure a continuous and stable frequency in the short term (e.g. when unexpected incidents occur power plant outages)

Ancillary services:

 Necessary tools/products which TSOs contract from generators in order to maintain system stability and security

Maintains energy balance

Energy products

- **Frequency Control & Reserves** to maintain system frequency at 50Hz ± x% and to provide additional energy when needed
 - UCTE / Germany: primary, secondary, tertiary and time control levels (FCR, aFRR/mFRR, RR)
 - **UK:** frequency response (FFR, MFR, EFR) and reserve (Fast Reserve, STOR, BM start up)

¹ Range of functions/products which Transmission System Operators (TSOs) contract from generators in order to maintain system stability and security.

Maintains grid quality

System products

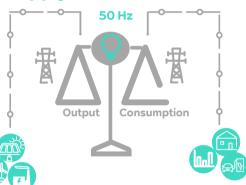
Reactive power (voltage support) provides the important function of voltage regulation

Constraint Management

- Countertrading grid operators deal on exchange or OTC (Continental)
- (Regulated) Redispatch ramp-down or ramp-up power stations to relieve power flows from congested grid lines

Dedicated to restarting the grid

- Security products / emergency
 - Blackstart ability to restart a grid following a blackout
 - Intertrips automatically disconnect a generator
 - SO-SO trading (system operator to system operator trades) – determines the direction of electricity flow



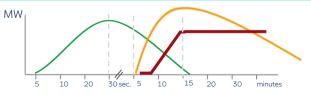




Overview of continental reserve category timescales

	Primary reserve	Secondary reserve	Tertiary reserve
Reaction time	• 30 seconds (100%)	• 5 minutes (100%)	• 7 - 15 minutes (100%)
System	• UCTE ¹	Control area	Control area
Activation	 Automatic and decentralised activation via governor control 	 Centralised (TSO); active call through IT 	 Centralised (TSO); active call through phone/IT
Reserved capacity	 3,000 MW in UCTE (600 MW in Germany) 	 Decided by TSO (2,500 MW in Germany) 	 Decided by TSO (2,500 MW in Germany)
Auction	• Weekly	• Weekly	• Daily
Remuneration	• Pay-as-bid	• Pay-as-bid	• Pay-as-bid
Typical suppliers	 Synchronised generators:² run-of-river plants, storage and pumped storage hydro plants, large- scale battery storage systems 	 Storage and pumped storage hydro plants; gas turbine power plants; CHP; large-scale battery storage systems 	 Storage and pumped storage hydro plants; gas turbine power plants; CHP

• A **sudden drop** in frequency triggers automated response to **correct the frequency**, followed by **manual interventions** by power system operators.

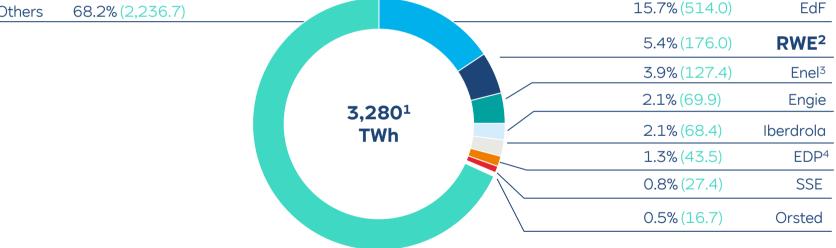


¹ The Union for the Coordination of the Transmission of Electricity. I² Primary regulating units are required to reserve ~2% of their nominal power ('primary control reserve', updated every year).









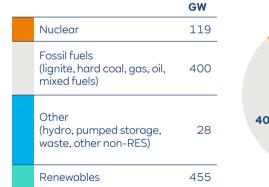
¹ Excl. Malta. |² Incl. innogy.- continuing operations. |³ Excl. power plants in Russia. |⁴ Incl. stake in EDPR. | Source: BP statistical review 2019; RWE Analysis.

Market Data

EU 28 power generation and capacity mix

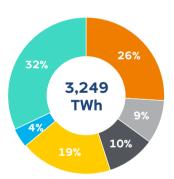






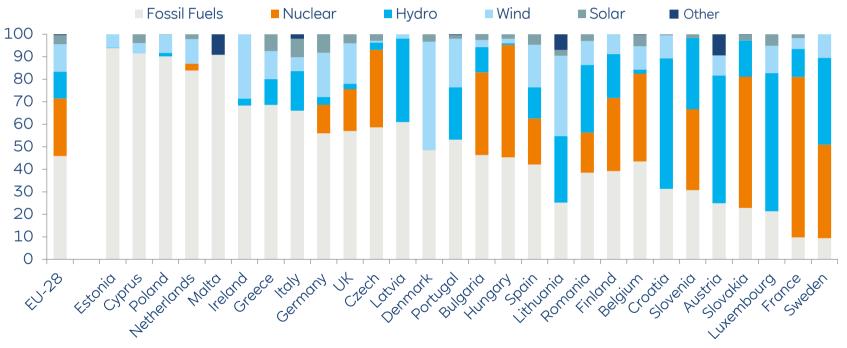


	TWh
Nuclear	829
Lignite	300
Hard coal	324
Gas	614
Other	131
Renewables	1,051



Market Data

EU 28 power generation by source



Source: eurostat, 2018.

Market Data



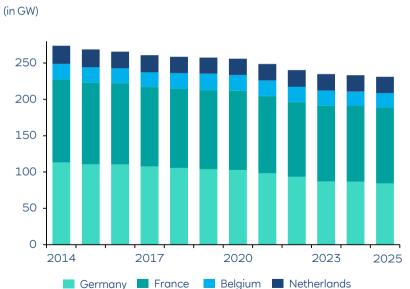
Controllable capacity in Europe significantly decreasing

Loss of load expectation (LOLE)¹ in Europe 2025



| O| F > 1h

Installed controllable capacity in Central Western Europe²



W^{*} Market Data

¹ Expected number of hours where load cannot be supplied by local resources and imports. I² Controllable capacity only, i.e. without PV and wind energy. I Source: entso-e Mid term adequacy forecast 2019: Low-Carbon scenario in 2025.

RWE March 2020 Factbook 2019

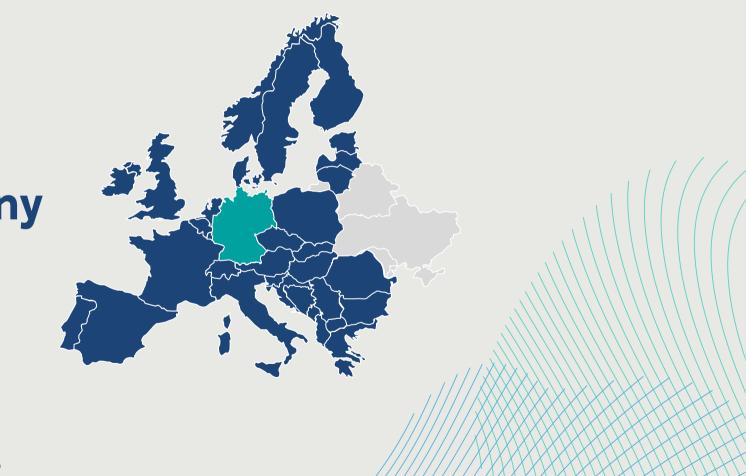
Physical cross border flows¹ via interconnectors

FI	23,397	3,459	19,938	RO	2,829	5,370	-2,541		
FR	13,466	76,020	-62,554	RS	7,300	6,703	597		
GB ²	22,662	2,189	20,473	SE	14,234	31,561	-17,328		
GR	8,552	2,265	6,288	SI	8,928	9,320	-392		
HR	12,692	6,533	6,160	SK	12,544	8,747	3,797	British area 📃 Ireland & Northern Ireland area	
HU	18,613	4,265	14,348	TR	2,638	3,046	-408	Isolated areas 📕 Nordic area	
	¹ Consolidated yearly values might differ from detailed flow data of each country due to ex-post consolidation being taking into account. ² All data with the country code GB represents statistical data as sum of England, Northern Ireland, Scotland and Wales. ³ In relation to installed capacity of each country. Source: entso-e, Statistical Factsheet 2018.								

GWh	Sum of imports	Sum of exports	Balance	GWh	Sum of imports	Sum of exports	Balance
AL	1,771	2,683	-912	IE	1,614	1,643	-29
AT	29,393	19,057	10,336	IT	47,169	3,268	43,902
BA	3,091	7,696	-4,605	LT	12,850	3,219	9,631
BE	21,650	4,313	17,338	LU	7,514	1,349	6,166
BG	2,220	10,029	-7,809	LV	5,179	4,272	907
СН	30,420	31,693	-1,274	ME	2,760	3,011	-251
CZ	11,562	25,453	-13,891	MK	4,144	2,224	1,921
DE	31,542	82,673	-51,131	NL	26,818	18,596	8,223
DK	15,606	10,413	5,193	NO	8,085	17,954	-9,869
EE	3,514	5,364	-1,850	PL	13,839	8,121	5,718
ES	24,014	12,910	11,104	PT	5,669	8,324	-2,655
FI	23,397	3,459	19,938	RO	2,829	5,370	-2,541
FR	13,466	76,020	-62,554	RS	7,300	6,703	597
GB ²	22,662	2,189	20,473	SE	14,234	31,561	-17,328
GR	8,552	2,265	6,288	SI	8,928	9,320	-392
HR	12,692	6,533	6,160	SK	12,544	8,747	3,797
HU	18,613	4,265	14,348	TR	2,638	3,046	-408

W^{*} Market Data

Germany





RWE's market share for 2018 in Germany



Net installed capacity **Total gross power generation** in % (in GW) in % (in TWh) Others **RWE¹** Others **RWE¹** 82% (527.5) 87% (192.3) 13% (27.7) 18% (119.5) 220 647 GW **TWh**

• **RWE** has a leading position in German power generation market.

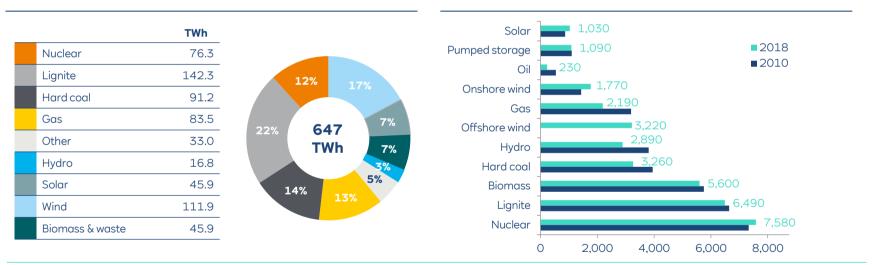
¹ Including innogy - continuing operations. I Source: BDEW as of March 2019; RWE analysis.

Overview of power generation mix

VE Group Market Data Regulations RWE operationa data

Gross power generation 2018

Annual full-load hours



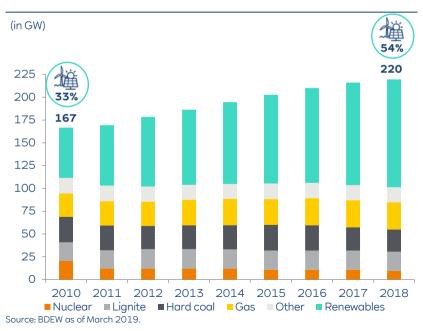
- Almost 50% of German power generation is based on nuclear and coal (hard coal and lignite)
- Germany agreed on nuclear exit by 2022, reducing installed capacity by ~11 GW

Note: Rounding differences may occure. I Source: BDEW as of March 2019.

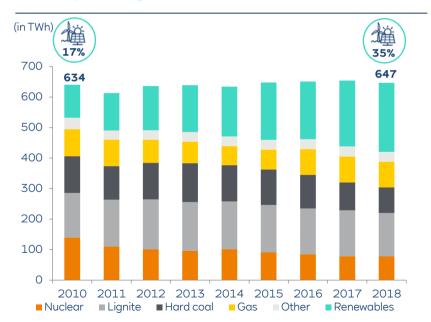
Development of power generation mix

RWE Group Market Data Regulations RWE operational data

Net installed capacity



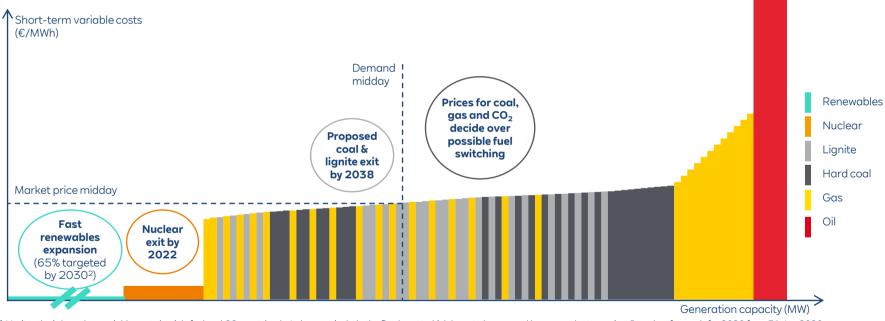
Gross power generation







The electricity supply curve in Germany¹

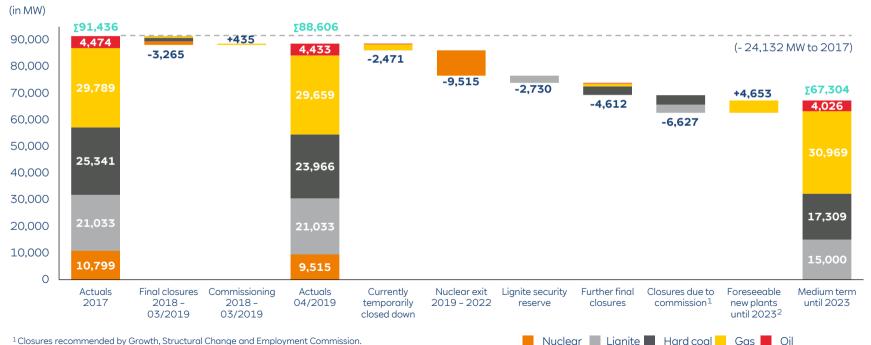


¹ Merit order is based on variable costs (mainly fuel and CO₂ costs) only. It does not include the fixed costs which have to be covered by power plant margins. Based on forwards for 2020 from 31 Jan 2020. ² Renewables share of power consumption amounted to about 38% in 2018.





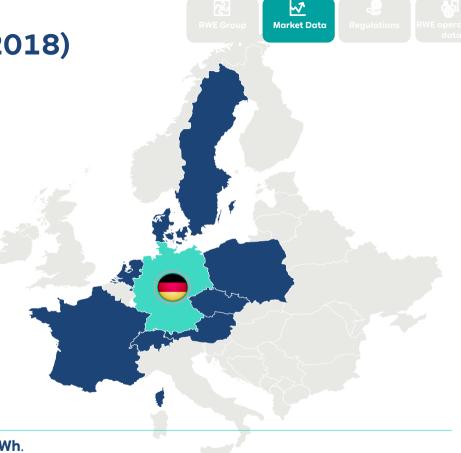
Expected development of conventional installed capacity



¹Closures recommended by Growth, Structural Change and Employment Commission. ²Including 2,309 MW of grid reserve power plants. I Source: BDEW as of March 2019. **RWE** March 2020 Factbook 2019

Physical cross-border flows (2018)

(in GWh)	Sum of imports	Sum of exports	Balance
AT	4,079	16,336	-12,257
СН	3,864	16,092	-12.228
CZ	4,903	7,580	-2,677
DK	4,421	5,818	-1,397
FR	10,980	2,536	8,444
LUX	1,246	5,865	-4,619
NL	735	20,913	-20,178
PL	21	7,054	-7,033
SE	1,293	480	813
Total	31,542	82,673	-51,131



• In 2018, Germany had a net **export balance** of **51.1 TWh**.

Source: entso-e, Statistical Factsheet 2018. I Note: Figures may not add up due to rounding differences.

United Kingdom



RWE's market share for 2018 in the UK



Net installed capacity in % (in GW) in % (in TWh) **RWE¹** 10% (34.1) Others Others **RWE¹** 90% (298.9) 8% (8.6) 92% (96.4) 105 333 GW TWh

Total gross power generation

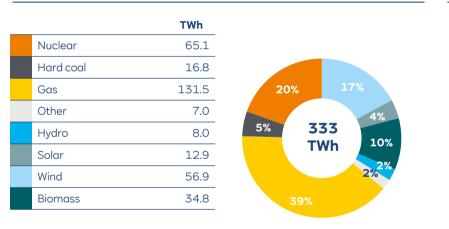
RWE ranked second in UK power generation market.

¹ Including innogy - continuing operations. I Source: Digest of UK Energy Statistics (Dukes) 5.6, 5.12 (gov.uk); RWE analysis.



Overview of power generation mix





Plant load factors



Market Data

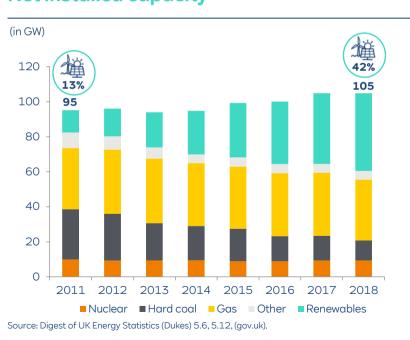
- 64% of UK generation is based on firm capacity (natural gas, hard coal and nuclear).
- UK government current target to **phaseout** unabated **coal-fired** electricity generation by October **2025**, consulting on phasing out **by October 2024**.

Source: Digest of UK Energy Statistics (Dukes) 5.6, 5.10, 6.4, 6.5 (gov.uk).

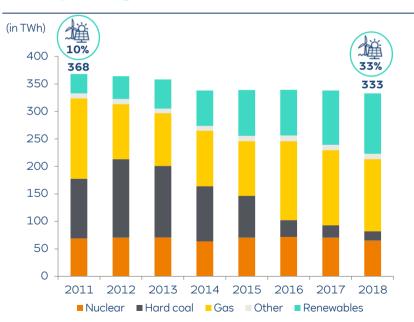


Development of power generation mix

Net installed capacity



Gross power generation

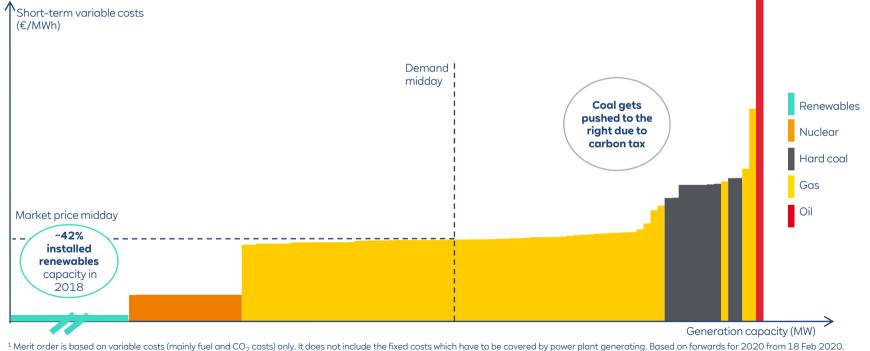


Market Data





The electricity supply curve in UK¹



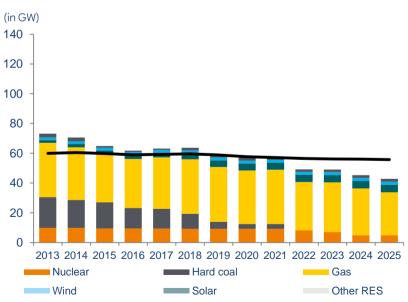
RWE March 2020 Factbook 2019



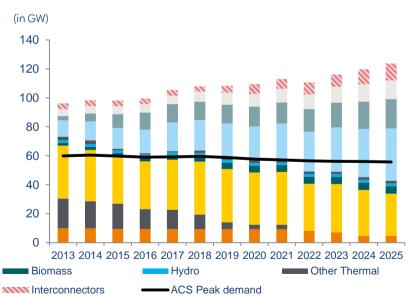


Expected tightening due to decline of secured capacity

Wholesale market capacity (gross) and peak demand¹



...with intermittent renewables & interconnectors



¹ Future capacities and average cold spell peak demand taken from National Grid's 2019 'Community Renewables' Future Energy Scenario.



Physical cross-border flows (2018)

(in GWh)	Sum of imports	Sum of exports	Balance
FR	14,262	388	13,874
IE	1,643	1,614	29
NL	6,757	187	6,570
Total	22,662	2,189	20,473

• In 2018, United Kingdom had **net imports** of **20.5 TWh**.

Source: entso-e, Statistical Factsheet 2018.

RWE March 2020 Factbook 2019

Market Data

Netherlands

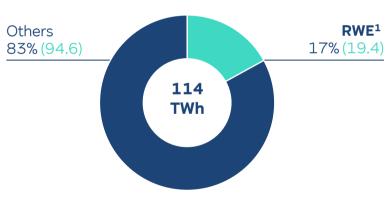




RWE's market share for 2018 in the Netherlands

in % (in GW) Others 85% (27.3) 32 GW 32 GW

Total gross power generation



• **RWE** has leading position in the **Dutch** power generation market.

¹ Including innogy – continuing operations. I Source: :Central Office for Statistics Netherlands (CBS); RWE analysis.

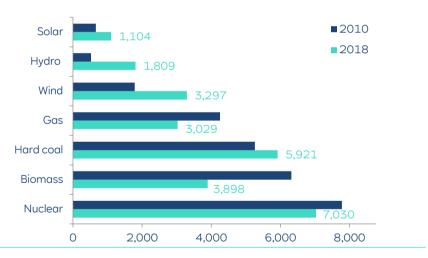
Net installed capacity

Overview of power generation mix





Annual full-load hours



Market Data

- **75%** of Dutch generation is based on **gas and hard coal**
- Netherlands is planning to end electricity generation from coal by 2030

Source: Central Office for Statistics Netherlands (CBS); Tennet.

Nuclear

Gas

Other

Hydro

Solar

Wind

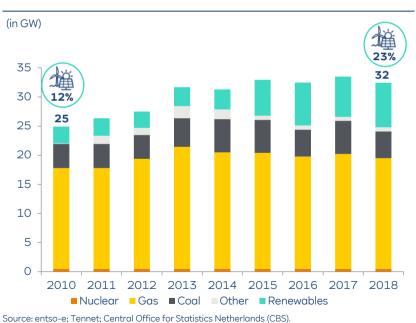
Biomass

Hard coal

Development of power generation mix

RWE Group Market Data Regulations RWE operational data

Net installed capacity



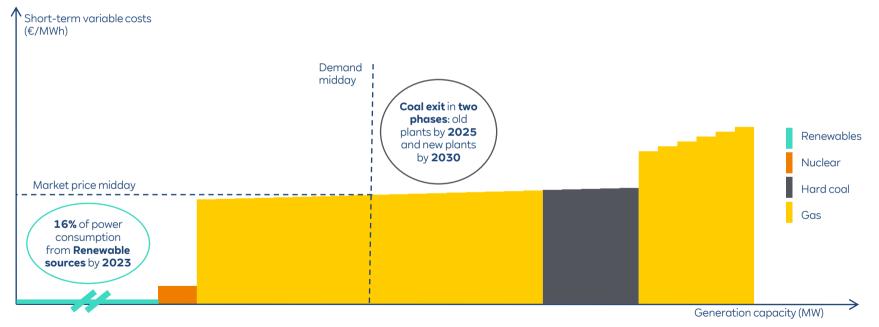
Gross power generation







The electricity supply curve in the Netherlands¹



¹ Merit order is based on variable costs (mainly fuel and CO₂ costs) only. It does not include the fixed costs which have to be covered by power plant margins. Based on forwards for 2020 from 31 Jan 2020.

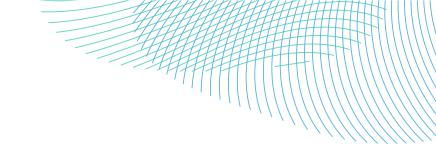
Physical cross-border flows (2018)

(in GWh)	Sum of imports	Sum of exports	Balance
BE	1,776	10,783	-9,007
DE	20,913	735	20,178
GB	187	6,757	-6,570
NO	3,943	322	3,621
Total	26,818	18,596	8,223



• In 2018, the Netherlands had a **net import balance** of **8.2 TWh**.

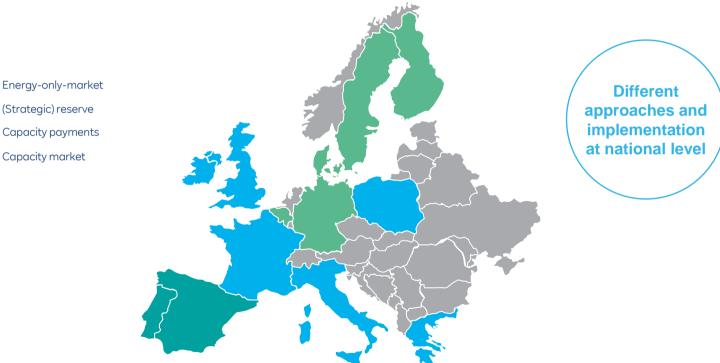
Source: entso-e, Statistical Factsheet 2018. I Note: Figures may not add up due to rounding differences.





European Electricity Market

Various national market designs and capacity mechanisms



Source: RWE Analysis.

Major regulatory measures for the European utility markets

	Market design	CO ₂ reduction	Renewables	Conventional generation
EU	 Revised Electricity Market Regulation and Directive in force since June 2019, the latter to be transposed into national law by Member States by end of 2020 	 EU Emissions Trading Scheme EU long term (2050) GHG emissions reduction strategy; currently in development Green Deal: Proposal for a European Climate Law for carbon neutrality in 2050 (4 March 2020) 	 EU Renewable Energy Directive (RED): Proposal for revision announced for 06/2020 	 Regulation on emissions of air pollutants: IED: Finalisation of Evaluation in Spring 2020, new Impact assessment started in 02/2020 BREF-LCP (rolling process)
DE	 Energy-only with strategic reserve components Revised grid fee system Acceleration of grid expansion & new provisions for redispatch Prolongation of CHP support Renewable Energy Act (REA) 	 Climate Action plan 2050 Climate act 2019 Climate action programme 2030 	• Renewable Energy Act (EEG)	 Coal phaseout by 2038 BREF-LCP implementation Nuclear exit & final storage regulation
UK	• Energy Market Reform (EMR) with a Capacity Market; currently under 5 year review	 Carbon Price Support (Tax) Climate Change Act (2050 Target Amendment: Net zero target by 2050) 	CfD regime	 BREF LCP implementation Gas charging review Coal phaseout (by 2025) (or even earlier Oct 2024)
	 Preparations for revision of energy law Execution of National Energy Agreement (current)/Climate Agreement (as of 2020) 	 Introduction of national CO₂ price floor 	 SDE+ regulation (Stimulation Renewable Energy) since 2011 	 Coal phaseout: end of 2024 for plants built in the 1990s and end of 2029 for plants built in 2000 and thereafter

-



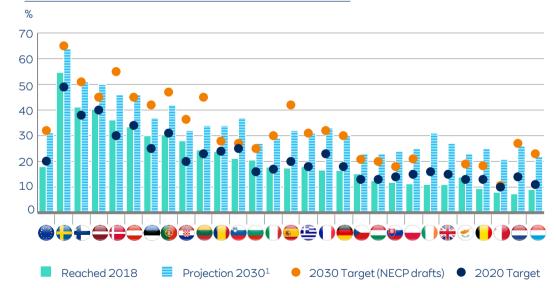
EU: National Energy and Climate Plans

Members of the EU currently develop their National Energy and Climate plans (NECPs) containing climate and energy objectives, targets, policies and measures for 2021-30

NECPs goals

- The NECPs ensure that **each EU member** contributes to the EU goal to be reached by **2030**
- In addition, NECPs should include a national long term strategy in line with the EU contribution to the Paris Agreement target to keep the global temperature increase well below 2°C
- Member States had to finalise first NECPs by end 2019, but 7 Member States overdue (02/2020)
- EU Commission announced assessment of first NECPs for June 2020, also taking into account
 EU Green deal target of climate neutrality by 2050
- After finalising its 2021-30 NECP, each country will have to develop a NECP for every subsequent 10-year period

RES share in gross final energy consumption



¹ EU Commission calculations based on information from the NECPs. I Source: European Commission (status as of 9 March 2020); eurostat (January 2020).

Ambitious renewables growth targets (I/II)

e De	 Target of 30% renewable energy share¹ by 2030 (16% achieved in 2018) Switch to one sided CfD (Contract for Difference) tenders started in 2017
() FR	 Target of 32% renewable energy share¹ by 2030 (17% achieved in 2018) Promoted through a feed-in tariff, premium tariff and CfD tenders
	 Target of up to 27% renewable energy¹ share by 2030 (7% achieved in 2018) Sliding feed-in premium system based on auctioning since 2011
ES	 Target of 42% renewable energy share¹ by 2030 (17% achieved in 2018) Capacity incentives awarded through auctions since 2016
PT	 Target of 47% renewable energy share¹ by 2030 (30% achieved in 2018) Electricity market or guaranteed remuneration through public tenders
	 Target of 30% renewable energy share¹ by 2030 (18% achieved in 2018) New framework in place with auctions for CfD
PL	 Target of 21% - 23% renewable energy share¹ by 2030 (11% achieved in 2018) Support scheme based on CfD auctions effective since July 2016

	1
SE	 Target of 65% renewable energy share¹ by 2030 (55% achieved in 2018) Promoted through quota system, tax regulation and green certificates
() NO	 Target of 100% renewable energy share¹ by 2040 (73% achieved in 2018) Promoted through a quota system including a certificate trading scheme
F I	 Target of 51% renewable energy share¹ by 2030 (41% achieved in 2018) Promoted through a tender-based system and tax regulation
DK	 Target of 55% renewable energy share¹ by 2030 (36% achieved in 2018) Promoted through a premium tariff, net-metering and CfD auctions
() IR	 Target of up to 28% renewable energy share¹ by 2030 (11% achieved in 2018) High level design of new auctioning system published for 2019 launch
a UK	 Target of 27% renewable energy share¹ by 2030 (11% achieved in 2018) Contract for difference awarded through auctions Legislation to achieve net-zero emission target by 2050 adopted mid 2019

-11

¹ Renewable energy share in gross final energy consumption; national targets and contributions foreseen in the draft National Energy and Climate Plan (NECP).

Ambitious renewables growth targets (II/II)



- Target of 22-24% renewables power production by 20301
- Regulated 20-year feed-in-tariff for onshore, tender offshore market in 2020
- Federal renewable power target of 33 TWh by 2020, in addition to state level targets e.g. Victoria 40% renewables power production by 2025^1
- Green Certificates, CfD and fixed payments through competitive tenders

¹ Target on total power production, not overall gross final energy consumption (including transport & heating) such as in European markets.

Regulations

Regulatory regimes for renewables (I/VI)



	Support regime	Remuneration
Onshore	 Production Tax Credit (PTC) annually inflation-adjusted, paying out over 10 years. Full PTC value for projects that have begun construction before 2017, and then falling to 80% in 2017, 60% in 2018, 40% in 2019, 60% in 2020 until expiring in 2021. Projects must complete construction in 4 years. Renewable Energy Certificates (RECs) Mandatory procurement via Renewable Portfolio Standards (RPS)/ clean energy goals Modified Accelerated Cost-Recover System (MACRS): Accelerated depreciation for tax equity investors & developers over 5 years, majority of capex can be expensed in year placed in service (bonus depreciation) 	Various revenue streams depending on state and market: • Tax credits via PTC (\$25/MWh) or ITC (30% of
Offshore	 Investment Tax Credit (ITC) amounts to 30% for projects that have begun construction before 2020 and complete construction before 31 Dec 2023, then gradually decreasing until 10% for projects completing construction after 2023. Offshore Renewable Energy Certificates (ORECs) Mandatory procurement via Renewable Portfolio Standards (RPS)/ clean energy goals 	 Energy revenues via wholesale market or PPA (10-20 years) Capacity revenue via market or part of PPA RECs via market or part of PPA
Solar	 Investment Tax Credit (ITC) Renewable Energy Certificates (RECs) Mandatory procurement via Renewable Portfolio Standards (RPS)/ clean energy goals Modified Accelerated Cost-Recover System (MACRS) 	

-

Regulatory regimes for renewables (II/VI)





	Support regime	Remuneration
Onshore	 Expired Renewable Obligation Certificate (ROC)¹ scheme and the first Contract for Difference (CfD) allocation round in 2015 Recent announcement that onshore projects will be eligible for CfDs At auctions, bidders submit a price/MWh they want to achieve. If they are successful, they will sell their power on the market, but receive the difference between market price and bid level from regulator 	 Wholesale market + 0.9x ROC/MWh based on COD Current buy-out price per ROC: £48.78 Term: 20 years
Offshore	 Renewable Obligation Certificates (ROCs) Replaced by pay-as-clear Contract for Difference (CfD) through auctions since 2017 	 ROCs: Wholesale market + 0.9x-1x ROC/MWh based on COD Current buy-out price per ROC: £48.78 Term: 20 years CfD: 2-sided indexed CfD Term: 15 years

¹ ROCs cannot be issued on generation after March 2037, so capacity accredited after 31 March 2017 will not receive 20 years of support.

Regulatory regimes for renewables (III/VI)





-

	Support regime	Remuneration	Support regime	Remuneration
Onshore	 Feed in tariff (FIT) with direct marketing obligation until 2017 Replaced by pay-as-bid one-sided Contract for Difference (CfD) through auctions 	 Tariff level: €80 - 85/MWh Tariff digression with year of COD Term: 20 years CfD price determined in competitive auctions 	Contract for difference (CfD), whereby CfD strike price is derived through auction process	Wholesale market plus CfD premium to reach CfD strike price
Offshore	 Feed in tariff (FIT) with direct marketing obligation until 2016 Since 2017 central auction system in form of 20 year CfD (for projects with COD after 2026). Developers with projects in advanced stage & COD in 2021 to 2025 can participate to clear the market 	 Initial tariff: €139 - 154/MWh for 12 years (standard) or €184-194/MWh for 8 years (compression model) depending from the year of commissioning Base tariff: €39/MWh for residual term Initial tariff extended for deep waters/distance to shore CfD price determined in competitive auctions 	• See above	• See above

Regulatory regimes for renewables (IV/VI)



	Support regime	Remuneration	Support regime	Remuneration
Onshore	 Feed-in Premium, compensation since mid 2013, aimed at achieving a 'reasonable return' based on the 10-year government bond plus a spread (set at 7.39%, reconfirmed 2019¹) Since 2016 new installations support based on reverse auctions 	 Market price + premium Term: 25 years or as soon as the plant has reached the reasonable return Auction design currently under revision (date unknown) 	 Assets with COD until 2013: Feed-in premium (FIP) to market price Auction system applicable since 2013 	 Wholesale market + premium Premium for year t: (180- market price t-1)*78% Term: 12 years for pre-2008 COD, 15 years for post-2008 COD Pay-as-bid CfD through auctions since 2013 Term: 20 years
Solar	 Feed-in Premium, compensation since mid 2013, aimed at achieving a 'reasonable return' based on the 10-year government bond plus a spread (set at 7.39%, reconfirmed 2019¹) Since 2016 new installations support based on reverse auctions (technology neutral) 	 Market price + premium Term: 25 years or as soon as the plant has reached the reasonable return Auction design currently under revision (date unknown) 		

¹ Renewable energy facilities prior to 2013 may obtain a profitability rate of 7.398% for two regulatory periods of six years each (until 2031) if the owners agree to waive legal action against Spain during these twelve years. Open lawsuits must be withdrawn. Otherwise, the value of the reasonable profitability that will be applied to renewable facilities in the 2020-2025 period will be 7.09%.

Italy

Regulatory regimes for renewables (V/VI)



Netherlands



	Support regime	Remuneration	Support regime	Remuneration
Onshore	 SDE+: One-way CfD awarded through reverse auctions, subsidy to cover price risk and imbalance cost SDE++: Beginning in 2020, carbon abatement technologies other than renewables can apply for subsidy 	 Pay-as-bid CfD Term: 15 years 	 Green certificate regime (ElCert) Joint green certificates market with Norway 	 Wholesale market + 1 ElCert/MWh Term: 15 years
Offshore	• Zero-bid beauty contests based on scoring criteria e.g. bidder experience, wind farm design quality, risk mitigation	 Full market exposure Grid connection provided by TSO 	See above	See above

Regulatory regimes for renewables (VI/VI)

Poland

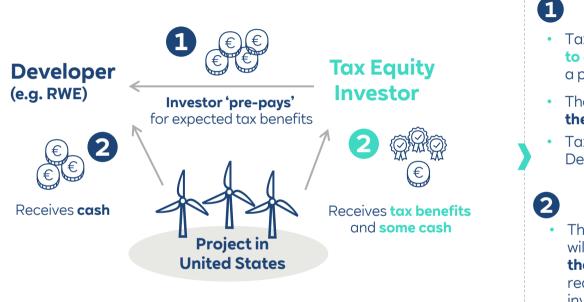




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	Support regime	Remuneration	Support regime	Remuneration
Onshore	 Quota system with Green certificates until 2016 that will expire in 2031 for existing assets Replaced by pay-as-bid Contract for Difference (CfD) through Solar and Wind auctions 	 1 green certificate per MWh (current market price: €35/MWh) Term: 15 years CfD price determined in competitive auction Annual adjustment of CfD price with Polish inflation Dec '19 result: Ø €49/MWh 	 Green Certificate System for large scale renewables introduced on federal level in 1999 to facilitate 33 TWh target by 2020, phaseout until 2030 Additional support schemes on state level, so far auctions in Australian Capital Territory, Queensland and Victoria 	 Wholesale market + 1 green certificate/MWh Current certificate price: 40 AUD, decreasing trend Term: To be received until 2030
Solar	• See above	• See above	• See above	• See above

Tax Equity in the US - financing structure



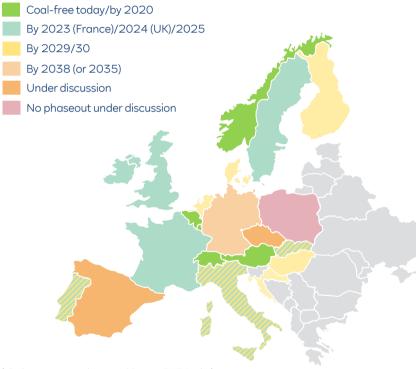
Tax Equity Investor invests into project
 to capture tax benefits, based on
 a pre-agreed financial return

Regulations

- The developer continues to manage the project
- Tax Equity investment accounted as Debt under IFRS
- The benefits generated by the project will be split between the developer and the investor until the investor has reached a specified return on his investment (IRR)
- The developer repays the investor with a mix of tax items (production tax credits and tax benefits from accelerated depreciation) and cash. In addition the Tax Equity Investor maintains a small residual interest in the project after repayment



Coal phaseout in Europe: National autonomy on energy mix



¹ Carbon capture and storage. I Source: RWE Analysis.

Overwhelming **majority** of countries will **phase out coal by 2030**; exceptions are Poland, Czech Republic, Spain and Germany.

- Austria: Last plant will close by 2020
- **France:** Coal phaseout by 2022; Cordemais may remain in reserve for add. 1-2 years as commissioning of Flamanville 3 and Landivisiau are delayed
- UK: Coal phaseout target date has been moved forward by one year to 2024; coal plants will only be allowed with CCS¹ from 2024 onwards
- **Finland and Denmark:** Most coal plants already converted to biomass. Finland accomplishes coal exit mid 2029
- NL: Phaseout in two steps, with old low-efficiency plants closed by 2025, and newer plants closed by 2030
- **Italy:** announced coal phaseout by 2025; however, not binding and executive measures need to be implemented; a delay until 2030 is assumed
- Spain: Phaseout under discussion; after the closure of domestic mines the capacity of coal plants is reduced to 5 GW in 2021; phaseout by 2030 is assumed
- **Germany:** Coal phaseout by 2038 with reviews carried out in 2026 and 2029 to determine whether Germany can exit coal-fired electricity generation in 2035, three years before the final deadline
- **Czech Republic:** 'coal commission' in 2019 established and should conclude in 2020 with recommendations for the government
- **Poland:** No coal phaseout announced, but long-term energy plan suggests a bisection of coal capacity until 2040 (14 GW down from 28 GW in 2020)

European Climate Action

Key EU targets for 2020

- 20% cut in greenhouse gas emissions compared with 1990
- 20% of total energy from renewables
- 20% increase in energy efficiency

Key EU targets for 2030 (to be revised by Eur. Green Deal)

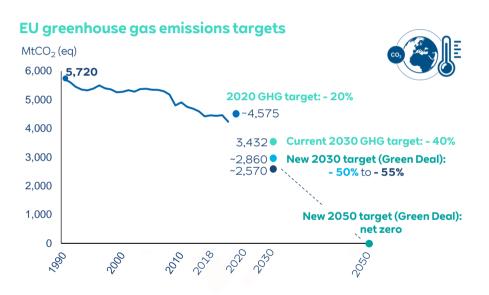
- At least 40% cut in **greenhouse gas emissions** compared with 1990
- At least 27% of total energy from renewables
- At least 27% increase in energy efficiency

European Green Deal¹ - objectives & targets

- An ambitious package of measures that sets a path for a transition to make **Europe the first climate-neutral continent**
- Supported by investments in green technologies, sustainable solutions and new businesses
- Target for 2030: at least 50% towards 55% cut in greenhouse gas emissions compared with 1990
- Target for 2050: CO₂ neutrality



¹ On 4 March, a draft law making the 2050 target legally binding was presented; a proposal to tighten 2030 is announced for September 2020 based on an impact assessment; further reforms to be presented in summer of 2021, as well as the adjustments to the directives on energy efficiency and renewables. I Source: https://ec.europa.eu/clima/citizens/eu_en; EEA.





EU Emissions Trading System



Overview

- Established by the **Emission Trading Directive**
- **Entered into force on 1 January 2005**, in the context of international mitigation commitments by the EU under the Kyoto Protocol
- Currently operating in **31 countries** (all 28 EU countries plus Iceland, Liechtenstein and Norway)
- Limits emissions from more than 11,000 energy-intensive installations (power stations & industrial plants) and airlines operating between these countries
- Covers around **45%** of the **EU's greenhouse gas emissions**
- Extends over following gases: carbon dioxide (CO₂), nitrogen oxide (NOx) & perfluorocarbons (PFC)

Functioning

- Based on 'cap and trade' system, whereby a cap is set on the total amount of greenhouse gases that can be emitted by installations covered by the system
- The cap is reduced over time so that total emissions fall
- Within the cap, companies receive or buy emission allowances which they can trade with one another as needed
- After each year a company must surrender enough allowances to cover all its emissions
- Emissions not covered by an allowance incur a **fine of €100 per tonne**
- If a company reduces its emissions, it can keep the spare allowances to cover its future needs (banking) or else sell them to another company that is short of allowances
- The **EU Emissions Trading Scheme** (EU-ETS) is the key tool for **reducing greenhouse gas emissions** from industry within the European Union.

Source: ec.europa.eu/clima/policies/ets_en.



EU Emissions Trading System

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Emissions reduction target of 43%

2005 - 2012

2013 - 2020

Phase 1: 2005-07

- Established as pilot to prepare for phase 2
- Allocation of allowances exceeded overall actual emissions
- No banking of excess allowances into phase 2

Phase 2: 2008-2012

- Coincided with first
 commitment period of
 Kyoto Protocol
- Individual national allocation plans to meet specific reduction targets

Source: ec.europa.eu/clima/policies/ets_en.

Phase 3 (changes compared to Phase 1&2)

- Emissions reduction target: 21% by 2020 compared to 2005
- Single EU cap applies instead of the previous system of national ceilings; linear reduction factor of 1.74% per annum
- Auctioning as standard method for issuing emission allowances (in power sector), and harmonised allocation rules for allowances that continue to be issued free of charge
- More industries and gases are included
- Promotion of innovative renewable energy technologies, carbon capture and storage under the NER 300 programme, 300 Mt allowances have been auctioned to receive the funds with which projects were supported
- Revision of legal framework in 2018 to strengthen Market Stability Reverse (MSR) to reduce total number of allowances in circulation (refer to following pages for details)

Phase 4 (main points of revision)

 Emissions reduction target: 43% by 2030 compared to 2005

2021 - 2031

- Increase of annual reduction of emission allowances to 2.2% per annum from 2021
- Strengthening of MSR to reduce total number of allowances in circulation
- Free allocation of allowances to ensure international competitiveness of industries affected by the risk of carbon leakage is to be pursued while ensuring that rules governing the determination of free allocation are focused on technological progress

EU Emissions Trading System – Market Stability Reserve (MSR)

Introduction

- In 2015, the Council and the European Parliament took the decision to establish a Market Stability Reserve (MSR) under the EU Emissions Trading System
- The MSR began operating in January 2019
- Purpose of the MSR is to avoid the EU carbon market operating with a large structural surplus of allowances, with the associated risk that this prevents the EU ETS from delivering the necessary investment signal to deliver on the EU's emission reduction target in a cost-efficient manner
- The decision states that, by 15 May each year and starting in 2017, the Commission shall publish the Total Number of Allowances in Circulation (TNAC). This figure determines whether allowances intended to be auctioned in the subsequent year should be placed into the reserve

Functioning

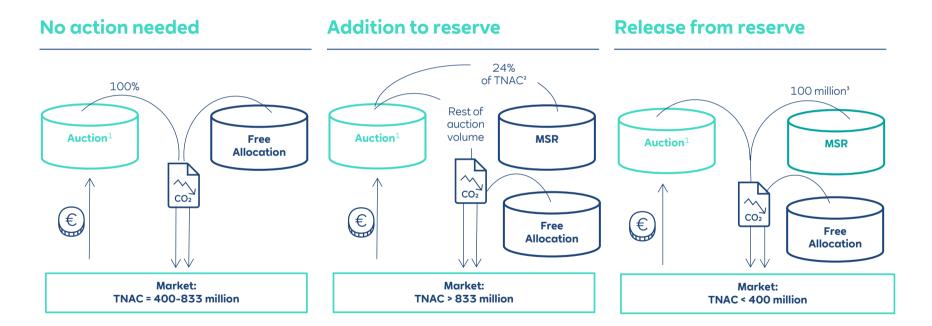
- Operational since January 2019; first review in 2021
- Functions automatically when total number of allowances in circulation is outside of a predefined range
- Allowances are added to the reserve, if the total number of allowances in circulation exceeds the threshold of 833 million allowances, by 24%¹ of the TNAC (applicable 2019-2023²)
- Allowances are released from the reserve, if the total number of allowances in circulation is lower than 400 million allowances
- Allowances are added to the reserve by auctioning less, and released from the reserve by auctioning 100 million more allowances in future
- From 2023, allowances held in the MSR above the previous year's auction volume will be cancelled
- **Publication** of the **total number of allowances** in circulation, on the basis of which allowances will be added to or released from the reserve, is a **key element** for the operation of the reserve.

¹ For January to August 2019 only 16% of TNAC will be placed into MSR. |² Will change to 12% after 2023 except future revision decides otherwise. | Source: ec.europa.eu/clima/policies/ets_en.

Regulations



EU Emissions Trading System – Functioning of Market Stability Reserve (MSR)



¹ 57% of total number of allowances to be auctioned (2013-2020); volumes were reduced accordingly by 264 million allowances beginning Jan 2019. ² 16% Jan-Aug 2019/24% Aug 2019-Dec 2023, J³ To be added on future auction. | Source: ec.europa.eu/clima/policies/ets_en.



MSR to reduce auction volume **by ~300 m** allowances in 2019²

EU Emissions Trading System – Total number of allowances in circulation (TNAC)

There are three different elements that determine the total number of allowances in circulation (TNAC):
Supply of allowances since 1 January 2008
Verified emissions and cancelled allowances (demand)
Holdings of the MSR
Integration of the MSR

¹ As of 31 Dec 2018. |² In line with the agreed MSR rules; between 1 January and 31 August 2019 around 265 million allowances were placed in the MSR. From September 2019 to August 2020 another 397 million allowances to be placed in the reserve. I Source: ec.europa.eu/clima/policies/ets_en.

in circulation¹



Climate Protection in Germany Measures defined by Climate Protection Programme

- Concrete measures to reach targets of Climate Protection Law determined by Climate Protection Programme 2030
- Focus on Non-ETS-sectors
- Introduction of National Emissions Trading System from 2021 onwards

Overview of different measures specified in the programme



¹ Price path still to be implemented in the relevant act, but already agreed by the two German legislative chambers in Dec 2019.



Road Map of German Coal Exit Different approaches for lignite and hard coal

At the end of January 2019 Commission on Growth, Structural Change and Employment presented their recommendations on the coal exit in Germany:

- By 2022 reduction to a total remaining capacity of 15 GW lignite and 15 GW hard coal
- By 2030 reduction to a total remaining capacity of 9 GW lignite and 8 GW hard coal
- End of coal-fired power production by end of 2038
- Steady reduction path until 2030
- Financial support for the coal regions

Implementation of the recommendations differs between lignite and hard coal:

Lignite:

- Decision on which lignite power plants will be shut down at what point based on negotiations with operators
- **Compensation** for shutdowns of power plants including costs for open cast mines
- Preservation of the Hambach Forest

Hard Coal:

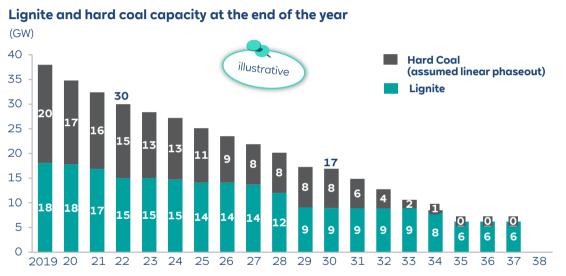
- Decision on which hard coal power plants will be shut down at what point based on decommissioning auctions (basically voluntary)
- From 2027 onwards and in case of missing coal capacity to achieve auction targets as of 2024: **administrative shut down** mainly based on age **without any compensation**
- Datteln 4 will be brought online

Overall:

- Reviews in 2023, 2026 and 2029 (climate protection, security of supply, power prices, regional development and employment)
- Cancellation of CO₂ certificates corresponding to emission reduction resulting from coal closures
- Mostly linear reduction path for coal in total
- Next Steps: Enacting a coal phaseout law (planned by May 2020) and a contract under public law between the government and the lignite power plant operators, subject to state-aid approval by EU Commission



Road Map of German Coal Exit Coal reduction path according to draft coal exit law



Lignite

according to negotiated reduction path

Hard coal

- 2020-2022: according to announced auction volumes, incl. commissioning of Datteln IV
- 2023 et seqq: gap filler for a mostly steady coal reduction path (final outcome depending on auctions and CHP system retrofitting), therefore for 2023-2025 additional auction volume of 1 GW (according to draft law, Sec., Para. 4) neglected

Agreed shut down of RWE lignite power plants				
Unit	Capacity (MW)	Date of decommission		
Niederaußem D	297	31.12.2020		
Niederaußem C	295	31.12.2021		
Neurath B	294	31.12.2021		
Weisweiler E or F	321	31.12.2021		
Neurath A	294	01.04.2022		
Frechen	120	31.12.2022		
Neurath D	607	31.12.2022		
Neurath E	604	31.12.2022		
Weisweiler E or F	321	01.01.2025		
Weisweiler G or H	663 / 656	01.04.2028		
Weisweiler G or H	663 / 656	01.04.2029		
Niederaußem G or H	628 / 648	31.12.2029		
Niederaußem G or H^{1}	628 / 648	31.12.2029		
Niederaußem K	944	31.12.2038		
Neurath F	1,060	31.12.2038		
Neurath G	1,060	31.12.2038		

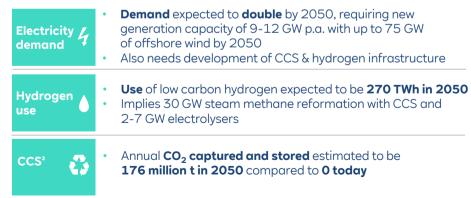
¹ Security Stand By.

UK is first major economy to pass net zero emissions law

UK is first G7 country to legislate a **net zero**¹ greenhouse gas emission target by **2050**.

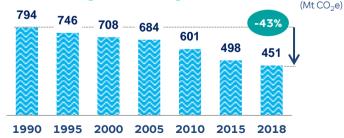
Implications of the target

- UK Committee on Climate Change recommends all new cars should be electric ideally by 2030 and significant increase to renewable energy capacity
- Full decarbonisation of the power sector by 2050 is necessary, through a combination of renewables, nuclear, ags with CCS² and low carbon hydrogen



The UK has been a leader in cutting emissions whilst growing the economy

- By 2018, UK reduced its final GHG emissions by 43% vs 1990, whilst growing its economy by more than two-thirds
- Coal 3% of power generation compared with 70% in 1990; Government wants to phase it out completely by Oct 2024
- UK's target for installed offshore wind energy has been raised to 40 GW by 2030 (~8.4 GW installed in 2018)



Final annual greenhouse gas emissions in the UK

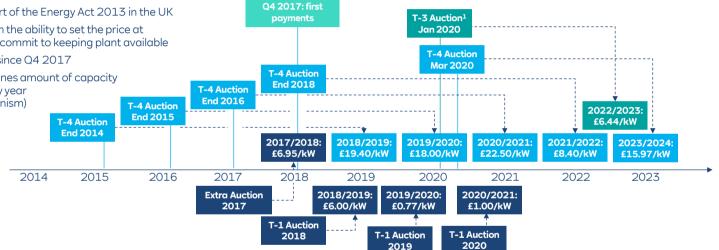
¹ Net zero means any emisions would be balanced by schemes to offset an equivalent amount of areenhouse gases from the atmosphere, such as planting trees or using technology like carbon capture and storage. ² Carbon capture and storage. I Source: UK Department for Business, Energy & Industrial Strategy; UK Committee on Climate Change. March 2020 Factbook 2019 Page 72

Regulations

GB capacity market

Establishment

- Adopted in 2013 as part of the Energy Act 2013 in the UK
- Provides generators with the ability to set the price at which they are willing to commit to keeping plant available
- Used to secure supply since Q4 2017
- UK government determines amount of capacity needed for each delivery year (auantity-based-mechanism)



Price

- Auction price can be between £0 75/kW
- Auction price is **determined by the marginal** capacity. All units receive the price of the highest successful unit ('descending clock' format)
- Units which leave the auction before it closes will not be offered a Capacity Market Agreement

Capacity quantities

- The largest part of the capacity is awarded in the first auction (T-4); a small part follows in another auction one year before the respective delivery year (T-1 auction)
- The 'agreement' terms are between 1 and 15 years depending on whether it is existing plants or new plants

¹ The T-3 auction replaces the T-4 auction, which was unable to take place last year given the standstill in the GB Capacity Market following the legal challenge by Tempus Energy. I Source: RWE Analysis.

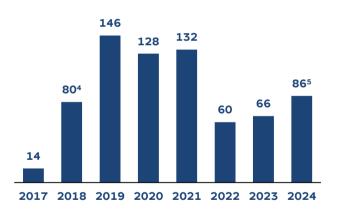
GB capacity market - RWE plants

RWE plants in GB Capacity Market

Derated capacity in MW	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
Aberthaw ¹	1,475	1,486	1,490	1,475	1,486	0	0
Didcot B (excl. OCGT)	1,358	1,364	1,380	1,395	1,395	1,395	1,395
Little Barford	681	683	691	699	699	699	699
Great Yarmouth	359	361	365	369	369	369	369
Staythorpe	1,626	1,633	1,652	1,670	1,670	1,670	1,670
Pembroke	2,081	2,090	2,114	2,138	2,138	2,138	2,138
King's Lynn			329	333	333	333	333
Other ²	322	375	382	386	467	427	427
Total (qualified)	7,901	8,044	8,403	8,465	8,556	7,031	7,031
Total (successful capacity)	7,901	7,991	6,913	6,897	6,988	6,895	6,895

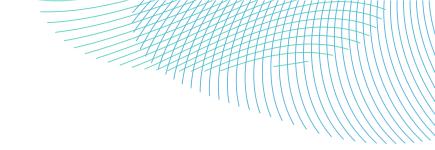
Revenue from capacity market³

(in £ million, pre inflation)



¹ Due to the closure of Aberthaw in March 2020 the Power Station's existing Capacity Market agreements for the years 2019/2020 and 2020/2021 were transferred to third parties and a small proportion to other units within RWE's fleet. I² Includes Cowes OCGT, Didcot OCGT, Cheshire GT, Conoco Phillips, Hythe, Grimsby A. I ³ Based on cleared capacity prices (nominal) and capacity contracts secured by RWE. ⁴ This includes approximately £42m that was received in 2019 due to the suspension of payments in 2018. I ⁵ This includes full year for King's Lynn and Grimsby A due to award of 15 year CM agreements and to September 2024 for other units.

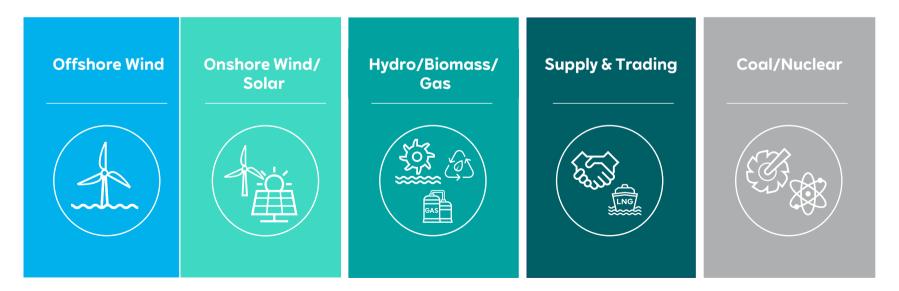




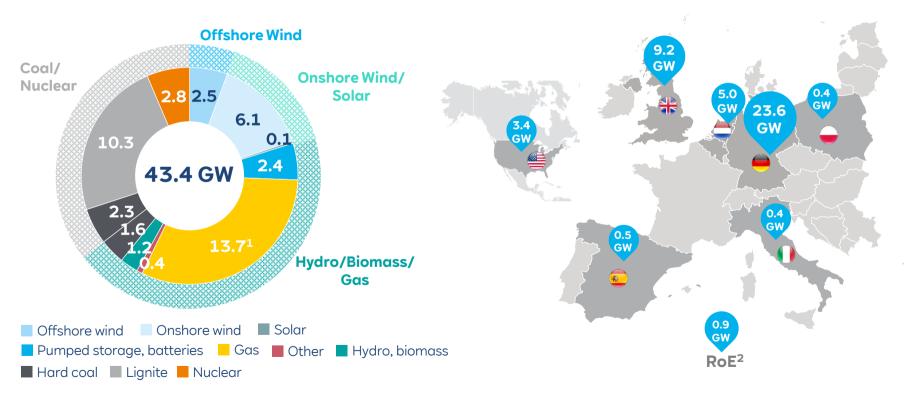




RWE



RWE's power generation portfolio



Note: Pro rata. As of 31 Dec 2019; Figures may not add up due to rounding differences. I¹ Includes 0.4 GW gas capacity belonging to Coal/ Nuclear. I² Rest of Europe; including Denizli CCGT (551 MW) in Turkey.

RWE March 2020 Factbook 2019

RWE operational

data

RWE operational

RWE's R&D projects: Promoting technological progress

Thermal storage (StoreToPower)

- Adding thermal storage to a coal-fired power plant
- Replacing the steam production with heat from liquid salt storage
- Storage charged with heat generated by sun and wind
- Located in the Rhineland (Germany)

Geothermal

•

- Deep **geothermal utilisation**: long-term **transformation** of the district **heating network**
- Using hot water from deep rock layers
- EU project overseen by Geologischer Dienst
 NRW at Weisweiler power station (Germany)

Battery (Panta.rhei)

- Simulation of requirements of potentially larger projects with Redox-Flow batteries
- Installation of 30 Modules with **120 kW/390 kWh** in total located at RWE Campus

Hydrogen (GET H₂)

- Hydrogen produced **from renewables** sources
- Research into the **possible uses for decarbonisation** in other industries
- Project development for a 105 MW power-togas electrolysis facility in Lingen (Germany)

Power to X

 Production of synthetic fuels ('e-fuels'), e.g. methanol, from green hydrogen and CO₂ produced in power stations and industrial plants

Recycling (FUREC)

- Conversion of several kinds of waste into base chemicals including hydrogen
- Located in the Netherlands

Note: All projects are joint projects.



Offshore Wind

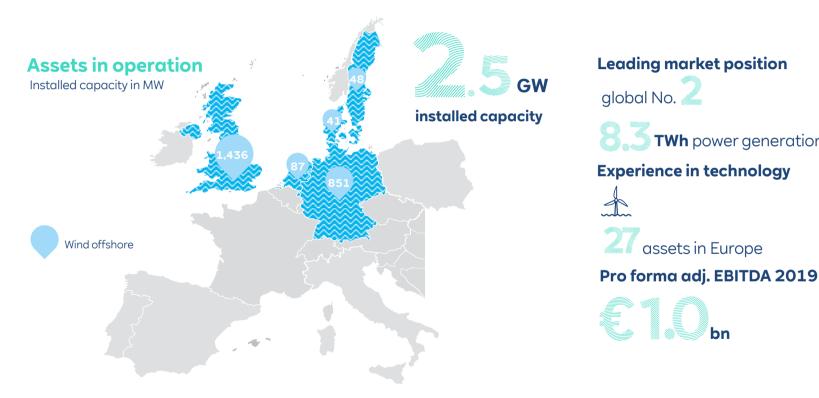
RWE March 2020 Factbook 2019

Strong market position



TWh power generation

bn



Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view.

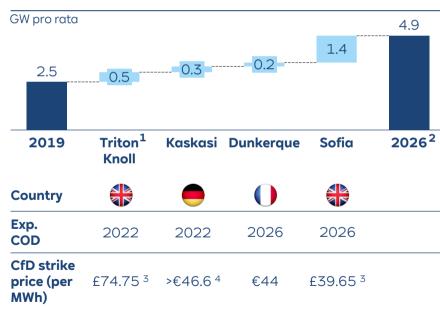


RWE Group Market Data



Attractive near-term build-out coupled with long-term development options

Secured near-term capacity build-out



Further projects in development, GW pro rata

Delta Nordsee		Pre-emption right	0.5 GW
Nordsee Two&Three		Pre-emption right	0.1 GW
Rampion		Extension option	0.4 GW
Gwynt y Môr		Extension option	0.3 GW
Greater Gabbard		Extension option	0.3 GW
Galloper		Extension option	0.1 GW
Dublin Array	0	Development project	0.3 GW
Sharco II, IV & V	\bigcirc	Development project	1.5 GW
Baltic II	\bigcirc	Development project	0.3 GW
Södra Midsjöbanken		Development project	1.6 GW
			5.4 GW

¹ Under construction, |² Before asset rotation. |³ 2012 prices, |⁴ €46.6 per MWh was the average strike price achieved in the auction.

RWE operational



WE Group Market I

julations RWE operational

Offshore Wind: Evolution of RWE's offshore wind farms







Offshore Wind:

RWE is participating in two floating demo projects for next level offshore wind

- Floating offshore wind has great potential and opens attractive market opportunities not accessible via fixed bottom installations
- Focus of demo projects: performance and load behaviour of platform under all possible conditions, operational experience, maintenance process
- Deliverable: Optimise design, manufacturing and installation process

Demo project TetraSpar

- Location: Norwegian coast
- Sea depth: 200 metres
- Capacity: 3.6 MW
- Platform type: steel-based
- Deployment: 2020



Demo project with SATH technology

- Location: Bay of Biscay, Spain
- Sea depth: 85 metres
- Capacity: 2 MW
- Platform size: 30 x 64 metres
- Platform type: concrete-based
- COD: Q3/2021
- Test phase: 2 years





Source: innogy factbook 2019 on demo project TetraSpar.



Onshore Wind/Solar

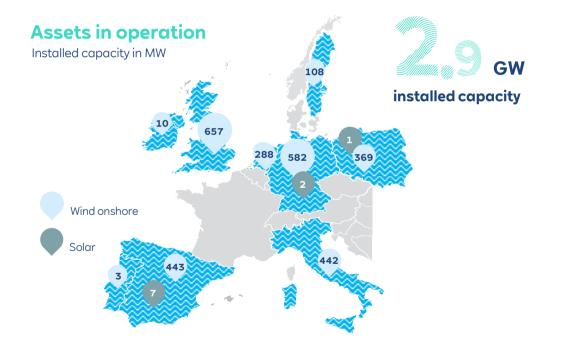
RWE March 2020 Factbook 2019





Onshore Wind/Solar Europe:

Experienced operator with strong competitive position



Regionally well diversified portfolio

More than **6 Twh** power generation

Experience in technology

Pro forma adj. EBITDA 2019



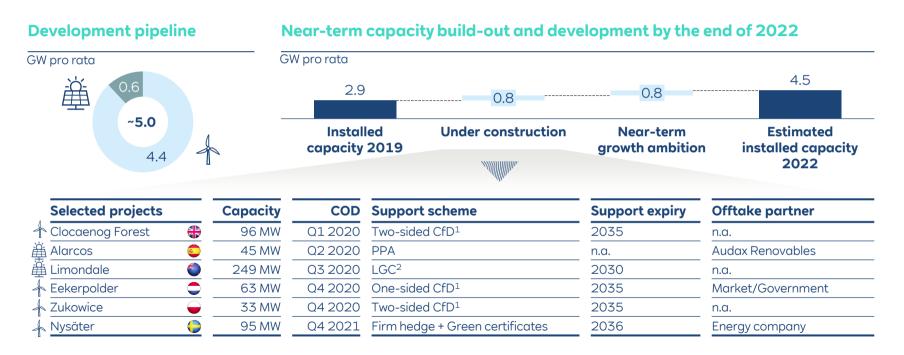
Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view; Rounding differences may occur.





Onshore Wind/Solar Europe & APAC:

Well diversified pipeline providing opportunities for profitable growth



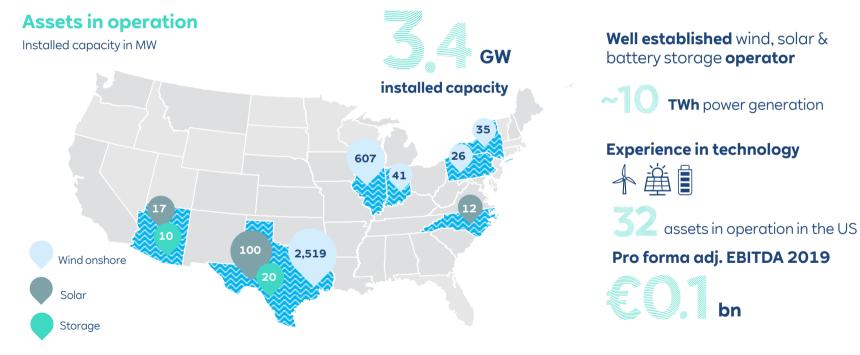
¹ CfD: Contract for Difference. |² LGC: Large Scale Generation Certificates (Green certificates for large producers in Australia). | Note: Installed capacity excluding storage.





Onshore Wind/Solar Americas:

Strong and diversified footprint across the US



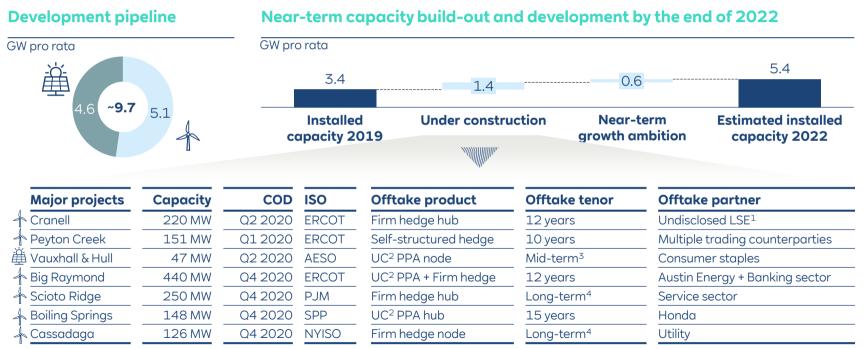
Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view; Rounding differences may occur.





Onshore Wind/Solar Americas: Substantial

2020 wind construction programme, with good optionality during PTC ramp-down



¹ LSE: Load serving entity. | ² UC: Unit contingent. | ³ Mid-term: 6-10 years. | ⁴ Long-term: 11-20 years. | Note: PTC: Production Tax Credits.

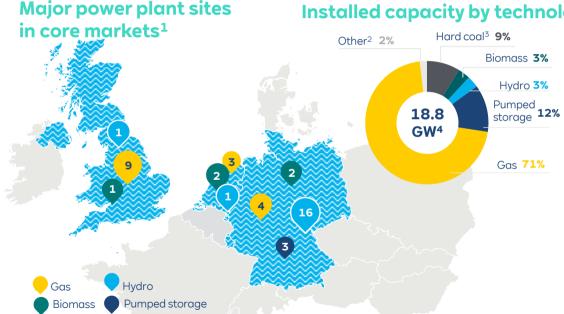


Hydro/Biomass/Gas

RWE March 2020 Factbook 2019



Well positioned portfolio across regions and technologies



Installed capacity by technology

Leading market position

in Germany, UK and Benelux

Experience in technologies



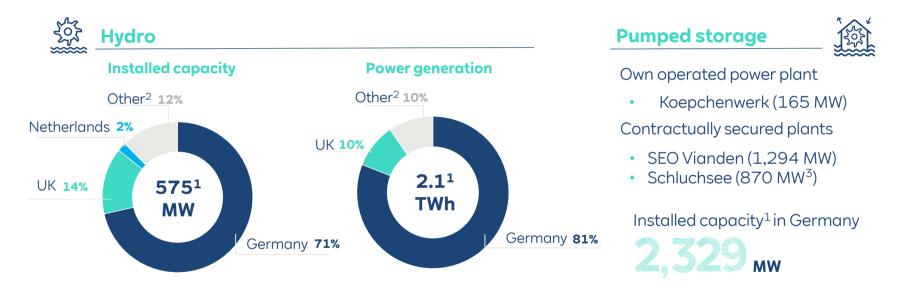
Pro forma adj. EBITDA 2019



Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view; Rounding differences may occur. I ¹ Excluding power plants in Spain, Portugal, France and Turkey and assets with an installed capacity less than 10 MW. 12 Including batteries, waste assets and oil assets. 13 Biomass co-fired power plants in the Netherlands. 14 Including generation capacity not owned by RWE that we can deploy at our discretion on the basis of long-term use agreements.



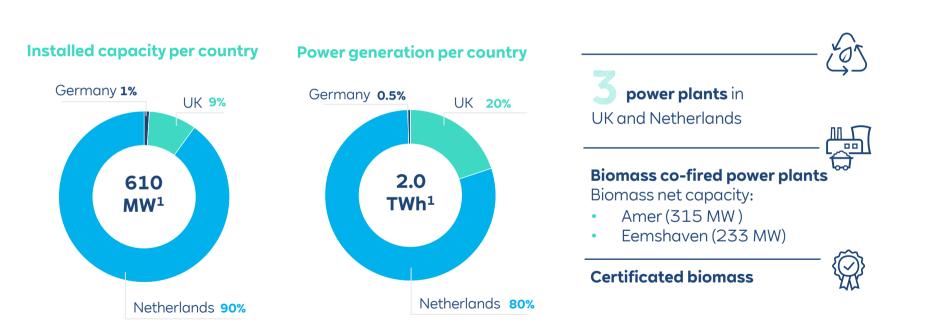
Hydro & pumped storage: Attractive portfolio with high flexibility



Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view; Rounding differences may occur. I¹ Including generation capacity not owned by RWE that we can deploy at our discretion on the basis of long-term use agreements. I² Including assets in Spain, Portugal and France. I³ RWE pro rata stake 50%.

RWE operational

Biomass: Focused on biomass co-firing



Note: Pro forma combined renewables as of 31 Dec 2019; All figures in pro rata view; Rounding differences may occur. I¹ Including biogas and CHP assets in Germany.

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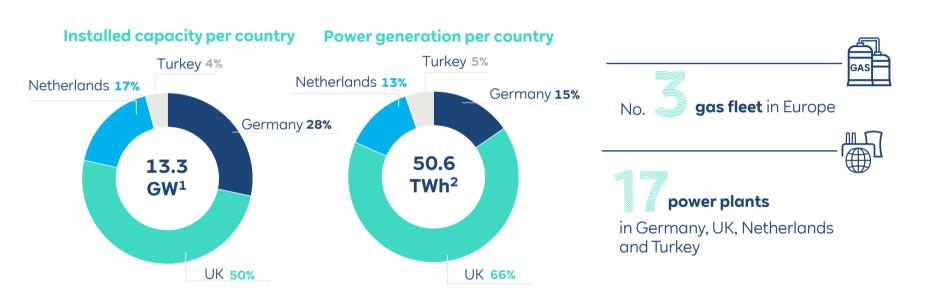
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RWE operational data





Gas: Highly efficient and flexible gas assets



¹ Pro rata view as of 31 Dec 2019.1² Accounting view as of fiscal year 2019.1 Note: Rounding differences may occur.



Supply & Trading

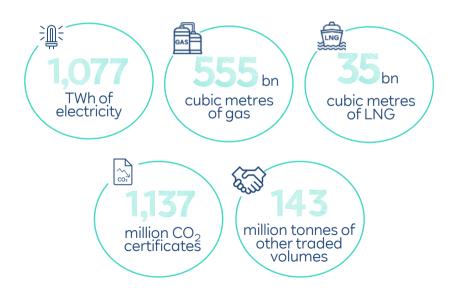
RWE March 2020 Factbook 2019



Supply & Trading:

Value creation through fundamental understanding of markets

Trading volumes in 2019



Leading energy trading house and significant gas portfolio player

Interface between the **Group and global wholesale markets** for energy and energyrelated raw materials and services

Europe's largest energy trading floor at RWE's headquarters (Essen, Germany);

1

trading offices worldwide

Pro forma adj. EBITDA 2019



Note: As of 31 Dec 2019.



Trading & Origination	Principal Investments (PI)	Commercial Asset Optimisation (CAO)	Gas & LNG Supply	Commodity Solutions
Interface wholesale energy markets all over the world – physical and financial products	Investments in commodity-driven assets and companies where we can deliver value from strong trading capability and deep understanding of energy commodity markets	Optimising physical and contractual power assets – from long-term hedging to dispatch decision	Management and optimisation of the Group's Pan- European gas portfolio, gas supply, storage and transport contracts as well as the global LNG portfolio	Fully-fledged service provider for industrial customers and aggregators
	€	203		

RWE operational data







Principal Investments

- Focus on private equity-like investments where RWE Supply & Trading can extract value from strong trading capability and asset know-how
- Target holding period 3 to 5 years

RWE operational

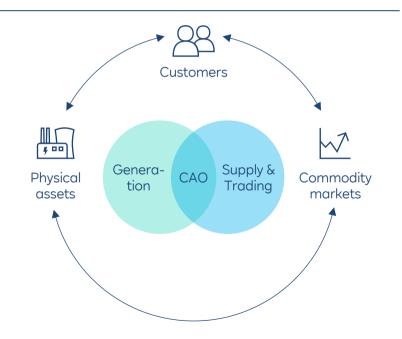




Commercial Asset Optimisation:

The interface between generation & markets

Business interaction



Commercial Asset Optimisation

Commercial asset management

Hedging



Dispatch and portfolio optimisation



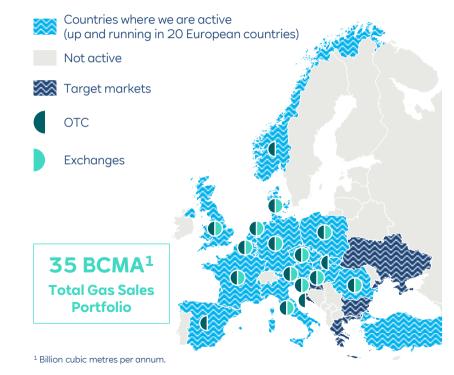
Capacity markets, reserve & ancillary services

Fuel, subfuel, waste procurement & logistics

Sales portfolio management



Gas & LNG Supply: Major asset backed gas player in Europe



Large gas portfolio across Europe

- Diversified **physical European gas portfolio of** ~ **350 TWh/a** across 20 countries centred around North Western and Central European markets
- Sourced from major international producers, smaller independents and from traded markets
- Booked working gas volume in **gas storages** of about 60 TWh
- ~ 55 GW gas transportation capacity at more than 70 European border points and storage connections

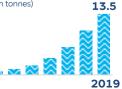
Global LNG activities

- Sizeable global LNG portfolio with a strong customer base in Europe, Asia and the Middle East
- Tailor-made solutions for LNG customers & Supply across all major markets

Global LNG portfolio

(in million tonnes)

2012



2019 in figures

- 13.5 mt of physical LNG traded
- 4.5 mt delivered to end customers
- 12 mt equivalent of financial LNG traded

RWE operational



Commodity Solutions: Reliable partner

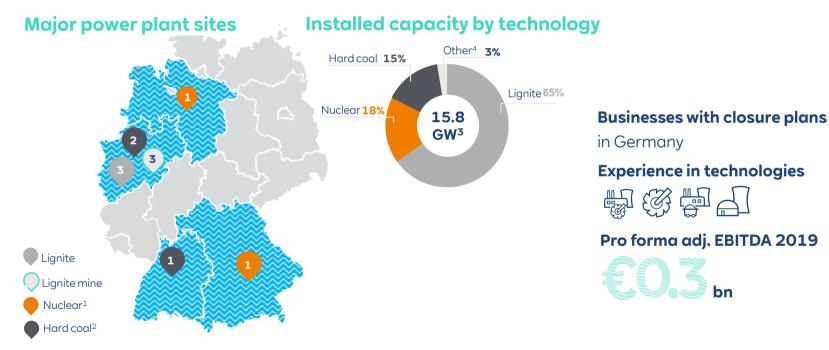
• **Commodity Solutions** supplies large industrial customers and municipalities/aggregators in Europe with energy and energy-related services. The portfolio comprises standard as well as structured products and individual solutions by creating win-wins based on our best in class asset and portfolio management.





Coal/Nuclear

Overview of coal and nuclear portfolio



Note: As of 31 Dec 2019. Pro rata view. 1¹ Nuclear power plants which are still operating in Germany. 1² Including contractually secured plant GKM. 1³ Including installed capacity (pro rata) of nuclear power plant EPZ in the Netherlands and hard coal power plant GKM not owned by RWE that we can deploy at our discretion on the basis of long-term use gareements. I 4 Including onshore wind asset at EPZ and two topping gas turbines at the Weisweiler site. RWE March 2020 Factbook 2019 Page 102

RWE operational data





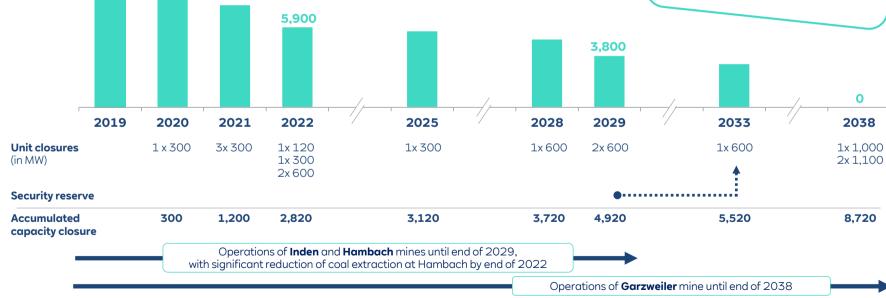
Lignite: Integrated system including mining, refining and power plants



Note: As of 31 Dec 2019. I¹ Excluding power plants in security reserve and refining power plants.



Lignite: Agreed closure plan for RWE's lignite operations Year-end installed capacity (MW)1 8,720

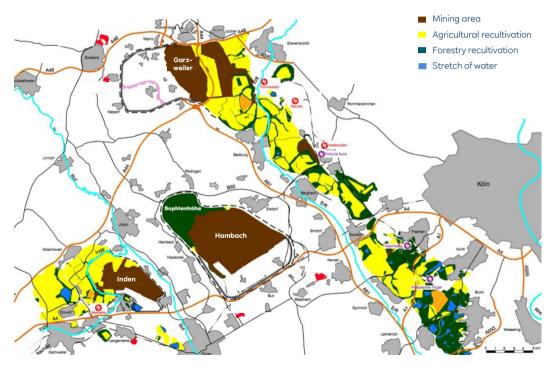


¹Excludes 1.5 GW already placed in security reserve.

RWE operational



Lignite: Longstanding experience in recultivation



Agricultural recultivation:

7 years biological activation of fields by RWE Afterwards farmer take over the fields for planting

Quality of land guaranteed by RWE for 25 years

Forestry recultivation:

Near-natural forest management: Plants from tree nurseries and tree seeds from the territory of the mining areas are cultivated

By mid of the century 1,900 $^{\rm 1}$ more hectares of forest will be reforested than were cleared

Stretch of water: RWE creates large shallow waters for more biodiversity

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RWE operational data

More than 650 hectares of lakes, marshlands and ponds have been completed

Biodiversity

Resettlement of animals and protection of species in accordance with RWE's biodiversity strategy (BioDiS)

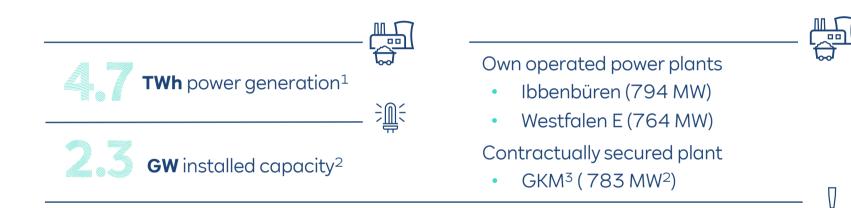
About 3,000 animal species and over 1,500 plant species have been identified

Note: As of January 2020. I¹ Current approval status.



Hard coal: Two plants remaining in Germany





Hard coal closure plan

Responsible and socially acceptable phaseout of coal in accordance with the recommendations of the Growth, Structural Change and Employment Commission expected.

¹ Accounting view as of fiscal year 2019.1² Pro rata view as of 31 Dec 2019.1³ RWE pro rata stake 35%.



[산] 전 로운 Narket Data Regulations

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RWE operational

Nuclear: Experience across entire nuclear plant lifecycle



				Status			
Nuclear units in Germany	Net capacity (GW)	End of operations	Spent fuel removal	Decomm. licence	Decomm. progress		
Emsland	1.3	2022	2027	Pending	-	Operational	
Gundremmingen C	1.3	2021	2026	Pending	-	(2.6 GW)	
Gundremmingen B	1.3	2017	2022	√	\bigcirc	Post-operation (1.3 GW)	
Biblis A	1.2	2011	4	✓			
Biblis B	1.2	2011	✓	✓			
Mülheim-Kärlich	1.2	1988	✓	✓		In decom- missioning (4.1 GW)	
Lingen KWL	0.3	1979	✓	✓			
Gundremmingen A	0.2	1977	✓	✓			
Kahl ¹	0.01	1985	~	1		Decommissioned	

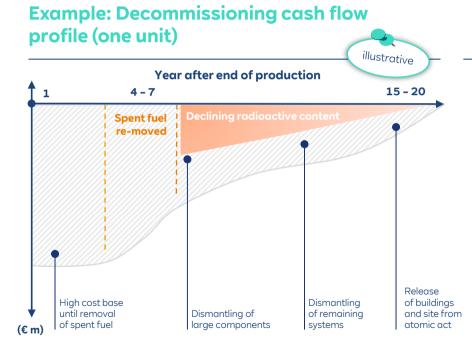
Note: As of 31 Dec 2019; excluding EPZ. I ¹ 20% owned by PreussenElektra (E.ON).





Nuclear:

Cash flow profile of provisions driven by timing of individual shutdowns



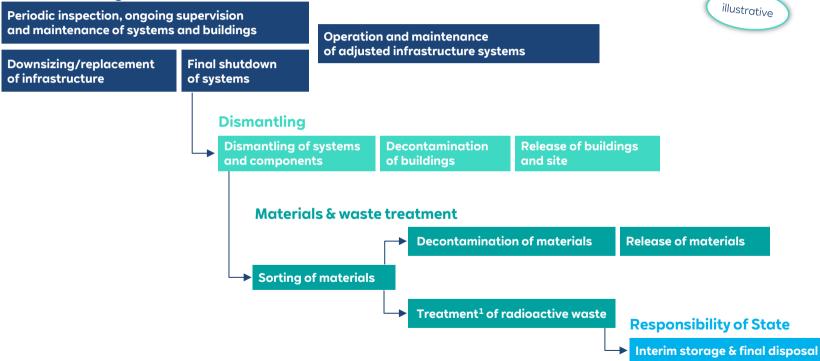
Accounting of provisions

Nuclear provisions (31.12.2019)	€6.7 bn
Discount rate	0.0 %
Escalation rate	1.5 %
Sensitivity (+/-10 bps change in real discount rate)	c/+€50 m

Utilisation of provisions

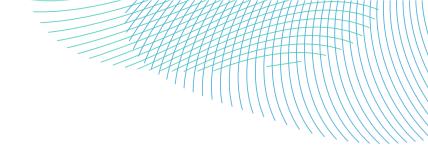
- Stable utilisation of provisions
 (€300 m €450 m p.a.) until ~2021
- Increased utilisation of provisions due to further shutdowns (€400 m – €600 m p.a.) from 2021 onwards
- Clear reduction in utilisation of provisions from ~2030 onwards

Basic site management



¹ For example melting, incineration, compaction, packaging and documentation.

RWE operational data



Appendix

Accounting treatment¹ of renewable assets

	Model 1	Model 2	Model 3a	Model 3b	Model 4
Ē		onsolidated financial ements	Equity method	Joint operations	Other investments
RWE share of project ²	100%	>50%, <100%	>20%, =<50%	>20%, =<50%	>0% - 20%
Capacity view					
Pro rata MW	100%	pro rata	pro rata	pro rata	pro rata
Accounting MW	100%	100%	n/a	pro rata	n/a
Profit and loss statement					
Contribution to EBITDA	100%	100%	0%	pro rata	0%
Contribution to depreciation	100%	100%	0%	pro rata	0%
Contribution to EBIT	100%	100%	0%	pro rata	0%
Contribution to at equity income in EBIT/DA	n/a	n/a	pro rata	n/a	n/a
Contribution to income other investments in EBIT/DA	n/a	n/a	n/a	n/a	pro rata
Minorities	n/a	(100% - RWE share)	n/a	n/a	n/a
Cash flow statement					
Consideration in operating cash flow	100%	100%	pro rata ³	pro rata	pro rata ³
Consideration in investing cash flow	100%	100%	pro rata ⁴	pro rata	pro rata4
Consideration in financing cash flow ⁵	n/a	(100% - RWE share)	n/a	n/a	n/a
Balance sheet assets					
Consolidated assets	100%	100%	n/a	pro rata	n/a
Equity investments	n/a	n/a	pro rata	n/a	n/a
Other investments	n/a	n/a	n/a	n/a	pro rata

¹Accounting treatment refers to list of sharesholding tables in RWE's annual report. I ² RWE's share of project corresponds to the voting rights and no adverse provisions in shareholders agreement are agreed, which would influence RWE's ability to control that company. I ³ Dividend. I ⁴ Capital and shareholder loan increase/decrease. I ⁵ Disregarding any financing structure (e.g. tax equity, project financing etc.).

RWE power plant portfolio (I/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	ta view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	мw		%		
Offshore wind											
Alpha Ventus 1	Germany	2010	30	0%	0	26%	8	3α	31%	FiT ¹	2030
Alpha Ventus 2	Germany	2009	30	0%	0	26%	8	3α	16%	FiT ¹	2029
Amrumbank West	Germany	2015	302	100%	302	100%	302	1	45%	FiT ²	2035
Arkona-Becken Südost	Germany	2018	385	0%	0	50%	193	3α	45%	FiT ³	2039
Nordsee One	Germany	2017	332	0%	0	14%	45	4	n.a.	FiT ²	2037
Nordsee Ost	Germany	2015	295	100%	295	100%	295	1	34%	FiT ²	2034
Galloper	UK	2018	353	0%	0	25%	88	3a	46%	ROC	2037
Greater Gabbard	UK	2012	504	50%	252	50%	252	3b	38%	ROC	2032
Gwynt y Mor	UK	2015	576	50%	288	50%	288	3b	35%	ROC	2035
Humber 1	UK	2015	108	100%	108	100%	108	1	45%	ROC	2035
Humber 2	UK	2015	111	100%	111	100%	111	1	43%	ROC	2035
London Array LARYW-1	UK	2013	155	30%	46	30%	46	3b	31%	ROC	2032
London Array LARYW-2	UK	2013	158	30%	48	30%	48	3b	32%	ROC	2032
London Array LARYW-3	UK	2013	158	30%	48	30%	48	3b	41%	ROC	2032
London Array LARYW-4	UK	2013	158	30%	48	30%	48	3b	41%	ROC	2032
North Hoyle	UK	2004	60	0%	0	0%	0	4	n.a.	n.a.	2027
Rampion 1	UK	2018	200	0%	0	30%	60	3a	29%	ROC	2037
Rampion 2	UK	2018	200	0%	0	30%	60	3a	30%	ROC	2037
Rhyl Flats	UK	2009	90	100%	90	50%	45	2	35%	ROC	2029

¹ EEG compression model: €154/MWh for first 12 years + 1.5 year on average (by turbine) depending on water depth and distance to shore, thereafter €39/MWh. I ² EEG compression model: €194/MWh for first 8 years, then €154/MWh for 1 to 2 years on average depending on water depth and distance to shore, thereafter €39/MWh. I ³ EEG compression model: €184/MWh for first 8 years, then €149/MWh for first 8 years, thereafter €39/MWh. I ³ EEG compression model: €184/MWh for first 8 years, then €149/MWh for first 8 years, t

RWE power plant portfolio (II/XVI)

Power plant	Country	Commissioned	Net capacity		ilegal idation ike	Pro ra	ta view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	мw		%		
Offshore wind											
Robin Rigg East	UK	2010	84	100%	84	100%	84	1	34%	ROC	2030
Robin Rigg West	UK	2009	90	100%	90	100%	90	1	36%	ROC	2029
Scroby Sands	UK	2004	60	100%	60	100%	60	1	33%	ROC	2027
Thornton Bank 1	Belgium	2009	30	0%	0	27%	8	3a	28%	Other	2029
Thornton Bank 2	Belgium	2012	185	0%	0	27%	49	3a	26%	Other	2032
Thornton Bank 3	Belgium	2013	111	0%	0	27%	30	3a	47%	Other	2033
Rødsand 2	Denmark	2010	207	0%	0	20%	41	3a	45%	CfD	2022
Karehamn	Sweden	2013	48	100%	48	100%	48	1	47%	Green Certificate	2028
Total offshore wind			5,022		1,918		2,463				
f Onshore wind											
Barbecke	Germany	2002	14	100%	14	100%	14	1	16%	FiT	2022
Bartelsdorf	Germany	2009	32	100%	32	100%	32	1	23%	FiT	2029
Bedburg Königshovener Höhe A	Germany	2014	38	100%	38	51%	19	2	60%	FiT	2034
Bedburg Königshovener Höhe A	Germany	2015	29	100%	29	51%	15	2	60%	FiT	2034
Dargelütz	Germany	2006	22	100%	22	100%	22	1	18%	FiT	2026
Düshorner Heide	Germany	2014	26	100%	26	51%	13	2	20%	FiT	2034
Eschweiler-Fronhoven A	Germany	2017	29	100%	29	51%	15	2	27%	FiT	2037
Krusemark B	Germany	2001	11	100%	11	100%	11	1	10%	FiT	2021

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (III/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	a view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	мw		%		
Onshore wind											
Lasbek	Germany	2004	11	100%	11	100%	11	1	15%	FiT	2024
Lesse A	Germany	2002	20	100%	20	100%	20	1	17%	FiT	2023
Lesse B	Germany	2002	21	100%	21	100%	21	1	22%	FiT	2030
Lichtenau	Germany	1997	11	100%	11	100%	11	1	16%	FiT	2020
Malterhausen	Germany	2002	29	100%	29	100%	29	1	10%	FiT	2022
Putlitz	Germany	2004	62	100%	62	100%	62	1	22%	FiT	2024
Schmarloh	Germany	2008	28	100%	28	100%	28	1	21%	FiT	2030
Titz-Nord	Germany	2012	21	100%	21	51%	10	2	27%	FiT	2032
Twistringen	Germany	2008	12	100%	12	100%	12	1	13%	FiT	2029
Wiedenfelder Höhe A+B	Germany	2017	13	100%	13	100%	13	1	26%	FiT	2037
Various (RWE Economic Stake < 10 MW)	Germany	various	267	various	238	various	224	various	various	various	various
Acampo Armijo	Spain	2002	18	100%	18	100%	18	1	33%	Merchant	n.a.
Aldehuelas	Spain	2005	47	100%	47	95%	45	2	32%	Other	2024
Bancal	Spain	2007	21	100%	21	100%	21	1	16%	Other	2027
Bosque Alto	Spain	2002	22	100%	22	100%	22	1	30%	Merchant	n.a.
Grisel I	Spain	2001	14	100%	14	100%	14	1	23%	Merchant (82%)	n.a.
Juno	Spain	2004	50	100%	50	99%	49	2	27%	Other	2024
Lanternoso	Spain	2005	24	100%	24	100%	24	1	32%	Other	2024
Los Labrados	Spain	2002	24	100%	24	100%	24	1	26%	Merchant	n.a.
Luna	Spain	2004	50	100%	50	99%	49	2	29%	Other	2024

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (IV/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	a view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	MW		%		
Onshore wind continued											
Muel	Spain	1998	16	100%	16	100%	16	1	27%	Merchant	n.a.
Plana de la Balsa	Spain	2002	24	100%	24	100%	24	1	23%	Merchant	n.a.
Plana de Maria	Spain	2002	24	100%	24	100%	24	1	24%	Merchant	n.a.
Plana de Zaragoza	Spain	2002	24	100%	24	100%	24	1	28%	Merchant	n.a.
Rio Gallego I	Spain	2003	36	100%	36	100%	36	1	27%	Merchant (93%)	n.a.
Siglos	Spain	2007	18	100%	18	100%	18	1	18%	Other	2027
Urano	Spain	2004	30	100%	30	99%	30	2	23%	Other	2024
Various (RWE Economic Stake < 10 MW)	Spain	various	6	various	6	various	6	various	various	various	various
Alcamo	Italy	2011	32	100%	32	100%	32	1	28%	FIP	2026
Deliceto	Italy	2012	23	100%	23	100%	23	1	22%	FiT	2027
Florinas	Italy	2004	20	100%	20	100%	20	1	19%	expired	2016
lardino	Italy	2005	14	100%	14	100%	14	1	17%	expired	2017
Marco A. Severino	Italy	2007	32	100%	32	100%	32	1	21%	expired	2019
Marco A. Severino II	Italy	2007	12	100%	12	100%	12	1	21%	expired	2019
Montecute	Italy	2006	42	100%	42	100%	42	1	22%	expired	2019
Morcone	Italy	2019	57	100%	57	100%	57	1	10%	CfD	2039
Piano di Corda I	Italy	2007	38	100%	38	100%	38	1	22%	FIP	2021
Poggi Alti	Italy	2006	20	100%	20	100%	20	1	20%	expired	2019
San Basilio	Italy	2010	25	100%	25	51%	13	2	22%	FiT	2025
Santa Ninfa (Trapani) (G58 part)	Italy	2007	24	100%	24	100%	24	1	24%	expired	2019

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (V/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	a view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	MW		%		
Onshore wind continued											
Serra Pelata I	Italy	2007	42	100%	42	100%	42	1	27%	expired	2019
Serra Pelata II	Italy	2010	12	100%	12	100%	12	1	27%	expired	2019
Ururi	Italy	2011	26	100%	26	51%	13	2	23%	FiT	2025
Vizzini	Italy	2006	24	100%	24	100%	24	1	21%	expired	2018
Various (RWE Economic Stake < 10 MW)	Italy	various	33	various	33	various	25	various	various	various	various
Westereems I	Netherlands	2009	150	100%	150	100%	150	1	26%	Merchant	n.a.
Westereems II	Netherlands	2012	12	100%	12	100%	12	1	26%	FiT	2027
Zuidwester	Netherlands	2016	90	100%	90	100%	90	1	32%	FiT	2031
Various (RWE Economic Stake < 10 MW)	Netherlands	various	36	various	36	various	36	various	various	various	various
Barzowice	Poland	2011	21	100%	21	100%	21	1	37%	Green Certificate	2026
Krzęcin	Poland	2012	14	100%	14	100%	14	1	32%	Certificate	2027
Nowy Staw A	Poland	2013	45	100%	45	100%	45	1	35%	Certificate	2028
Nowy Staw A	Poland	2015	28	100%	28	100%	28	1	35%	Certificate	2028
Opalenica	Poland	2015	17	100%	17	100%	17	1	31%	Certificate	2030
Piecki	Poland	2010	32	100%	32	51%	16	2	24%	Certificate	2025
Suwalki	Poland	2009	41	100%	41	100%	41	1	28%	Certificate	2024
Taciewo	Poland	2012	30	100%	30	100%	30	1	25%	Certificate	2026
Tychowo	Poland	2011	35	100%	35	100%	35	1	25%	Certificate	2025
Wielkopolska	Poland	2010	53	100%	53	100%	53	1	29%	Green Certificate	2025
Wielkopolska 2a	Poland	2014	15	100%	15	100%	15	1	27%	Green Certificate	2029

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (VI/XVI)

ower plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	a view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			мw	%	MW	%	мw		%		
Onshore wind continued											
Wysoka II	Poland	2014	48	100%	48	100%	48	1	23%	Green Certificate	2029
Various (RWE Economic Stake < 10 MW)	Poland	various	8	various	8	various	8	various	various	various	various
Knäred	Sweden	2012	20	100%	20	100%	20	1	30%	Green Certificate	2027
Nybro	Sweden	2011	20	100%	20	90%	18	2	35%	Green Certificate	2026
Örken	Sweden	2012	18	100%	18	100%	18	1	30%	Green Certificate	2027
Villköl	Sweden	2013	21	100%	21	100%	21	1	32%	Green Certificate	2027
Various (RWE Economic Stake < 10 MW)	Sweden	various	37	various	37	various	31	various	various	various	various
Bad A Cheo	UK	2019	27	100%	27	100%	27	1	26%	CfD	2034
Bowbeat (Emly Bank)	UK	2002	16	100%	16	100%	16	1	24%	ROC	2027
Bowbeat (Roughside)	UK	2002	16	100%	16	100%	16	1	24%	ROC	2027
Bradwell	UK	2013	21	100%	21	100%	21	1	27%	ROC	2033
Brechfa Forest West	UK	2018	57	100%	57	100%	57	1	33%	ROC	2038
Camster	UK	2013	50	100%	50	100%	50	1	37%	ROC	2033
Deucheran Hill	UK	2002	16	100%	16	100%	16	1	18%	ROC	2026
Goole Fields A	UK	2013	33	100%	33	100%	33	1	26%	ROC	2033
Goole Fields B	UK	2016	35	100%	35	100%	35	1	27%	ROC	2036
Kiln Pit Hill	UK	2012	14	100%	14	100%	14	1	22%	ROC	2032
Knabs Ridge	UK	2007	16	100%	16	100%	16	1	18%	ROC	2027
Little Cheyne Court	UK	2008	60	100%	60	59%	35	2	25%	ROC	2028
Middlemoor	UK	2013	54	100%	54	51%	28	2	29%	ROC	2033

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (VII/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	a view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			MW	%	MW	%	мw		%		
Onshore wind continued											
Mynydd Y Gwair	UK	2019	33	100%	33	100%	33	1	23%	CfD	2034
Novar 2	UK	2012	37	100%	37	100%	37	1	20%	ROC	2033
Rosehall	UK	2013	25	100%	25	100%	25	1	24%	ROC	2032
Stags Holt	UK	2007	20	100%	20	100%	20	1	21%	ROC	2027
Tween Bridge	UK	2012	44	100%	44	100%	44	1	26%	ROC	2032
Various (RWE Economic Stake < 10 MW)	UK	various	166	various	135	various	137	various	various	various	various
Dromadda Beg	Ireland	2018	10	100%	10	100%	10	1	34%	FiT	2032
Various (RWE Economic Stake < 10 MW)	Portugal	various	8	various	0	various	3	various	various	various	various
Anacacho	US	2012	100	100%	100	100%	100	1	38%	REC/PTC	2022
Bruenning's Breeze	US	2017	228	100%	228	100%	228	1	34%	REC/PTC	2027
Champion	US	2008	127	100%	127	100%	127	1	33%	REC	n.a.
Colbeck's Corner	US	2016	200	100%	200	100%	200	1	49%	REC/PTC	2026
Forest Creek	US	2007	124	100%	124	100%	124	1	32%	REC	n.a.
Grand View I	US	2014	211	0%	0	50%	106	3a	49%	REC/PTC	2024
Inadale	US	2009	197	100%	197	100%	197	1	32%	REC	n.a.
Magic Valley I	US	2012	203	0%	0	20%	41	3a	38%	REC/PTC	2022
Munnsville	US	2007	35	100%	35	100%	35	1	11%	REC	n.a.
Panther Creek - Phase I	US	2008	143	100%	143	100%	143	1	26%	REC	n.a.
Panther Creek - Phase II	US	2008	116	100%	116	100%	116	1	23%	REC	n.a.
Panther Creek - Phase III	US	2009	200	100%	200	100%	200	1	33%	REC	n.a.

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (VIII/XVI)

Papalote Creek II	US US US US	2009 2010 2012	MW 180 200	% 0%	MW	%	MW		%		
Papalote Creek I U Papalote Creek II	US US US	2010 2012	200		0						
Papalote Creek II	US US US	2010 2012	200		0						
	US US	2012		0.04	0	50%	90	3a	33%	REC	n.a.
	US			0%	0	50%	100	3a	32%	REC	n.a.
Pioneer Trail U			150	100%	150	100%	150	1	37%	REC/PTC	2021
Pyron L		2009	249	100%	249	100%	249	1	35%	REC	n.a.
Radford's Run L	US	2017	306	100%	306	100%	306	1	42%	REC/PTC	2027
Roscoe	US	2008	209	100%	209	100%	209	1	30%	REC	n.a.
Sand Bluff L	US	2008	90	100%	90	100%	90	1	29%	REC	n.a.
Settlers Trail	US	2011	150	100%	150	100%	150	1	31%	REC/PTC	2021
Stella L	US	2018	201	100%	201	100%	201	1	38%	REC/PTC	2028
Stony Creek L	US	2009	53	0%	0	50%	26	3a	31%	REC	n.a.
Wildcat I	US	2012	203	0%	0	20%	41	3a	27%	REC/PTC	2022
Total onshore wind			7,034		5,916		6,128				
🚊 Solar											
West of the Pecos U	JS	2019	100	100%	100	100%	100	1	12%	ITC	2024
Various (RWE Economic Stake < 10 MW) U	JS	various	27	various	25	various	27	various	various	various	various
Stawiec P	Poland	2019	1	100%	1	100%	1	1	13%	CfD	2034
Various (RWE Economic Stake < 10 MW)	Germany	various	2	various	2	various	2	various	various	various	various
Various (RWE Economic Stake < 10 MW) S	Spain	various	51	various	0	various	7	various	various	various	various
Total solar			181		128		137				

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (IX/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consoli sta	dation	Pro rat	ta view	Accounting treatment	Load factor 2019	Support regime	Support expiry
			MW	%	MW	%	MW		%		
🗐 Storage											
Iron Horse (ES)	US	2017	10	0%	0	100%	10	4	0%	ITC	2047
Texas Waves - Inadale	US	2018	10	100%	10	100%	10	1	0%	ITC	2033
Texas Waves - Pyron	US	2018	10	100%	10	100%	10	1	0%	ITC	2033
Total storage			30		20		30				

Power plant	Country	Commissioned	Net capacity	consol	s legal idation ake	Pro rat	a view	Comment
			мw	%	мw	%	мw	
နှင့်နဲ့ Hydro								
Detzem	Germany	1962	24	100%	24	100%	24	
Enkirch	Germany	1966	18	100%	18	100%	18	
Fankel	Germany	1963	16	100%	16	100%	16	
Heimbach	Germany	1905	16	100%	16	100%	16	
Koblenz	Germany	1951	16	100%	16	100%	16	
Lehmen	Germany	1962	20	100%	20	100%	20	
Müden	Germany	1965	16	100%	16	100%	16	
Neckar	Germany		29	100%	29	100%	29	Deploy at our discretion on basis of long-term agreements.

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (X/XVI)

Power plant	Country	Commissioned	Net capacity	RWE's consolic stal	dation	Pro rat	a view	Comment
			MW	%	MW	%	MW	
र्दुर्फ Hydro								
Neef	Germany	1966	16	100%	16	100%	16	
RADAG Wehrkraftwerk	Germany	1933	84	100%	84	77%	65	
RADAG Wehrkraftwerk	Germany	2009	24	100%	24	77%	18	
Rhein-Main-Donau	Germany		10	100%	10	100%	10	Deploy at our discretion on basis of long-term agreements.
Schwammenauel	Germany	1938	14	100%	14	100%	14	
Serrig	Germany	1985	12	100%	12	100%	12	
Trier	Germany	1962	19	100%	19	100%	19	
Wintrich	Germany	1965	20	100%	20	100%	20	
Zeltingen	Germany	1964	14	100%	14	100%	14	
Various (RWE Economic Stake < 10 MW)	Germany	various	66	various	66	various	66	
Linne HH 1-4	Netherlands	1989	11	100%	11	100%	11	
Dolgarrog High Head	UK	1907	18	100%	18	100%	18	
Dolgarrog Low Head	UK	1907	15	100%	15	100%	15	
Various (RWE Economic Stake < 10 MW)	UK	various	49	various	49	various	49	
Various (RWE Economic Stake < 10 MW)	Spain	various	12	100%	12	various	10	
Various (RWE Economic Stake < 10 MW)	France	various	45	various	45	various	45	
Various (RWE Economic Stake < 10 MW)	Portugal	various	28	various	16	various	17	
Total hydro			613		601		575	

RWE power plant portfolio (XI/XVI)

Power plant	Country	Commissioned	Net capacity	conso	's legal lidation ake	Pro rate	a view	Comment		
			мw	%	MW	%	мw			
Biomass										
Neurath	Germany	2007	1	100%	1	100%	1	Biogas power plant.		
Siegen-Wittgenstein	Germany	2009	5	100%	5	100%	5	Sold as of end of January 2020.		
Amercentrale ST 9	Netherlands	1993	315	100%	315	100%	315	50% biomass co-firing.		
Eemshaven A	Netherlands	2014	117	100%	117	100%	117	15% biomass co-firing.		
Eemshaven B	Netherlands	2014	117	100%	117	100%	117	15% biomass co-firing.		
Markinch	UK	2014	55	100%	55	100%	55			
Total biomass			610		610		610			
							_			
Gas										
Dortmund	Germany	2004	26	100%	26	100%	26			
Emsland B	Germany	1973	475	100%	475	100%	475			
Emsland C	Germany	1974	475	100%	475	100%	475			
Emsland D	Germany	2010	887	100%	887	100%	887			
Gersteinwerk F	Germany	1973	401	100%	401	100%	401			
Gersteinwerk G	Germany	1973	400	100%	400	100%	400			
Gersteinwerkl	Germany	1973	405	100%	405	100%	405			
Gersteinwerk Werne Kv1	Germany	1984	112	100%	112	100%	112			
GuD Dormagen	Germany	2000	326	100%	326	100%	326			
GuD Dormagen	Germany	2000	260	100%	260	100%	260	Capacity due to economic stake 0 MW.		

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (XII/XVI)

Power plant	Country	Commissioned	Net capacity	cons	E's legal olidation take	Pro ra	ta view	Comment
			мw	%	MW	%	MW	
🛱 Gas continued								
Weisweiler VGT G, H	Germany	2006	400	100%	400	100%	400	Two topping gas turbines at the Weisweiler site.
Clauscentrale C	Netherlands	2012	1,304	100%	1,304	100%	1,304	
Moerdijk	Netherlands	1996	348	100%	348	100%	348	
Moerdijk 2	Netherlands	2012	426	100%	426	100%	426	
Swentibold CC	Netherlands	1999	245	100%	245	100%	245	
Cheshire	UK	2000	40	100%	40	100%	40	
Cheshire East & West	UK	2016-18	19	30%	19	30%	19	
Didcot B	UK	1996-1997	1,440	100%	1,440	100%	1,440	
Great Yarmouth	UK	2001	411	100%	398	100%	398	
Grimsby	UK	2018	20	100%	20	100%	20	
Hythe	UK	2005	56	100%	56	100%	56	
Little Barford	UK	1994	727	100%	727	100%	727	
Pembroke	UK	2012	2,181	100%	2,181	100%	2,181	
Phillips Petroleum	UK	1999	55	100%	55	100%	55	
Staythorpe	UK	2010	1,740	100%	1,740	100%	1,740	
Denizli	Turkey	2013	787	100%	787	70%	551	
Total gas	, i i i i i i i i i i i i i i i i i i i		13,966		13,953		13,717	

RWE power plant portfolio (XIII/XVI)

Power plant	Country	Commissioned	Net capacity	conse	's legal blidation take	Pro rat	ta view	Comment	
			мw	%	MW	%	мw		
Pumped storage and batteries									
Koepchenwerk	Germany	1989	165	100%	165	100%	165	·	
SEO Vianden	Germany		1,294	100%	1,294	100%	1,294	Deploy at our discretion on basis of long-term agreements.	
Schluchsee	Germany		1,740	50%	870	50%	870	Deploy at our discretion on basis of long-term agreements.	
Battery storage Allgäuspeicher	Germany	2018	1	100%	1	100%	1		
Battery storage Herdecke	Germany	2018	7	100%	7	100%	7		
Battery storage Hoppecke	Germany	2018	1	100%	1	100%	1		
Total pumped storage and batteries			3,208		2,338		2,338		
û ⊥ Oil							-		
Aberthaw OCGT	UK	1971-79	51	100%	51	100%	51	To be closed as of 31 March 2020.	
Cowes OCGT	ПК	1982	140	100%	140	100%	140		

Cowes OCGT	UK	1982	140	100%	140	100%	140	
Didcot OCGT	UK	1972-1975	96	100%	96	100%	96	
Little Barford OCGT	UK	2006	17	100%	17	100%	17	
Total oil			304		304		304	

RWE power plant portfolio (XIV/XVI)

Power plant	Country	Commissioned	Net capacity	cons	E's legal olidation take	Pro rat	ta view	Comment		
			мw	%	MW	%	мw			
मित्री Hard coal										
GKM	Germany		1,958	40%	783	35%	783	Deploy at our discretion on basis of long-term agreements.		
Ibbenbüren	Germany	1985	794	100%	794	100%	794			
Westfalen E	Germany	2014	764	100%	764	100%	764			
Amercentrale ST 9	Netherlands	1993	316	100%	316	100%	316			
Eemshaven A	Netherlands	2014	660	100%	660	100%	660			
Eemshaven B	Netherlands	2014	660	100%	660	100%	660			
Total hard coal			5,152		3,977		3,977			
🖏 Lignite										
Frimmersdorf P	Germany	1966	284	100%	284	100%	284	In security reserve.		
Frimmersdorf Q	Germany	1970	278	100%	278	100%	278	In security reserve.		
Goldenberg	Germany	1993	40	100%	40	100%	40			
Neurath A	Germany	1972	294	100%	294	100%	294			
Neurath B	Germany	1972	294	100%	294	100%	294			
Neurath C	Germany	1973	292	100%	292	100%	292	In security reserve.		
Neurath D	Germany	1975	607	100%	607	100%	607			
Neurath E	Germany	1976	604	100%	604	100%	604			
Neurath F (BoA 3)	Germany	2012	1,060	100%	1,060	100%	1,060			
Neurath G (BoA 2)	Germany	2012	1,060	100%	1,060	100%	1,060			

Note: As of 31 Dec 2019; Rounding differences may occur.

RWE power plant portfolio (XV/XVI)

Power plant	Country	Commissioned	Net capacity	cons	E's legal olidation stake	Pro ro	ıta view	Comment	
			мw	%	MW	%	мw		
🖏 Lignite									
Niederaussem C	Germany	1965	295	100%	295	100%	295		
Niederaussem D	Germany	1968	297	100%	297	100%	297		
Niederaussem E	Germany	1970	295	100%	295	100%	295	In security reserve.	
Niederaussem F	Germany	1971	299	100%	299	100%	299	In security reserve.	
Niederaussem G	Germany	1974	628	100%	628	100%	628		
Niederaussem H	Germany	1974	632	100%	632	100%	632		
Niederaussem K (BoA1)	Germany	2002	944	100%	944	100%	944		
Weisweiler E	Germany	1965	321	100%	321	100%	321		
Weisweiler F	Germany	1967	321	100%	321	100%	321		
Weisweiler G	Germany	1974	660	100%	660	100%	660		
Weisweiler H	Germany	1975	660	100%	660	100%	660		
Refining plants (Berrenrath, Fortuna, Wachtberg)	Germany	various	90	100%	90	100%	90		
Total lignite			10,255		10,255		10,255		

RWE power plant portfolio (XVI/XVI)

Power plant	Country	Commissioned	Net capacity	cons	E's legal olidation stake	Pro ra	ıta view	Comment		
			мw	%	MW	%	MW			
🛞 Nuclear										
Gundremmingen C	Germany	1984	1,288	100%	1,288	100%	1,288			
KKW Emsland	Germany	1988	1,336	100%	1,336	100%	1,336			
EPZ	Netherlands	1973	485	30%	146	30%	146			
Total nuclear			3,109		2,770		2,770			
Other										
MHKW Karnap (waste)	Germany	1987	38	100%	38	100%	38			
MVA Weisweiler (waste)	Germany	1996	27	100%	27	100%	27			
SRS Ecotherm (waste)	Germany	2003	1	100%	1	100%	1			
EPZ (wind)	Netherlands	2004/2012	24	30%	7	30%	7	At EPZ nuclear power plant.		
Total other			90		73		73			
Total generation capacity			49,574		42,863		43,377			

Glossary

Α				F						0						TS	0	Transmission System Operator	
APAC	Asia Pacific			FIT	Fe	eed-in to	ariff			OCGT	(Open Cy	ycle G	as Turbine		u			
в				FIP	Fe	Feed-in premium				OREC	(Offshore Renewable Energy Certificate					2	Unit Contingent	
bcm	Billion cubic met	re		G						OTC	(Over-the-counter					TE	Union for the Coordination of	
bcma	Billion cubic met	res per	annum	GH	G G	reenhou	ise gas			Ρ						v		the Transmission of Electricity	
bps	basis point			11						PFC	F	Perfluor	ro carl	oon		Vo		Value at Risk	
BREF-LC				IED	In	dustrial	Emissions Direc	tive		PPA	F	Purchas	sing Po	ower Agreeme	nts	VE		Virtual Power Plant	
с	Large Combusti	on Plar	nts	IRR	In	ternal R	ate of Return			PSA	F	Power S	Supply	Agreement		vr			
-	tomers Commercial and	d Indust	trial Customers	ITC	In	vestmer	nt Tax Credit			PTC	F	Product	tion To	ax Credit					
CAO	Commercial Ass			L.						R									
CCGT	Combined Cycle			LCC	DE Le	evelised	Cost of Electrici	ty		REA	F	Renewo	able Er	nergy Act					
CCS	Carbon Capture			LGC	LGC Large Scale Generation Certificate					RED	F	Renewable Energy Directive							
CfD	Contract for Diff		5	LOL	E Lo	Loss of load expectation					F	Renewables							
СНО	Chief Human Re			LSE	Lo	Load serving entity				REC	F	Renewo	able Er	nergy Certifica	te				
COO	Chief Operation			Μ						ROC	F	Renewo	able Ol	oligation Certif	ficate				
CHP	Combined Heat			MAG	CRS M	odified /	Accelerated Cos	st Reco	overy System	RoE	F	Rest of Europe							
CO ₂ e	Carbon dioxide e			MW	h _{el} M	egawat	t hour electrical	energy	/	PRS	F	Renewable Portfolio Standard							
COD	Cash on Delivery			MW	p M	egawat	t peak			S									
сто	Chief Technolog		er	MSF	R M	arket St	ability Reverse			SDE	9	Stimulation Renewable Energy							
E				Mt	Μ	etric tor	nnes			SDGs	9	Sustain	able D	evelopment G	oals				
ECT	Easy Commodit	v Trade	er	Ν						т									
EMR	Energy Market R			NEC			Energy and Clim	ate Pla	n	tCO ₂	٦	Total co	arbon	dioxide					
ETS	Emission Trading			NO	K N	itrogen o	oxide			TNAC	٦	Total nu	umber	of allowances	in circ	ulation			
Cour	try Codes																		
AL AT AU BA BE	Albania Austria Australia Bosnia Herzegovina	BG CA CH CL CZ	Bulgaria Canada Switzerland Chile Czech Republic	DE DK EE ES FI	Germany Denmark Estonia Spain Finland	FR GB GR HR HU	France Great Britain Greece Croatia Hungary	IE IN IT JP KR	Ireland India Italy Japan South Korea	LT LU LV ME MK	Lithuan Luxemb Latvia Monter Maceda	bourg	MX NL NO PL PT	Mexico Netherlands Norway Poland Portugal	RS SE SI	Romania Serbia Sweden Slovenia Slovakia	TR US	Turkey United States of America	

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Contact for ADR-holders at BNY Mellon shrrelations@cpushareownerservices.com +1 201 680-6255 (outside from the US) 1-888-269-2377 (within the US)

Financial Calendar

- **14 May 2020** Interim statement on the first quarter of 2020
- 26 June 2020
 Annual General Meeting (fully virtual event)
- **13 August 2020** Interim report on the first half of 2020
- **12 November 2020** Interim statement on the first three quarters of 2020
- 16 March 2021
 Annual Report for fiscal 2020

Contacts for Private Shareholders



Sabine Gathmann Tel. +49 201 5179-3115 sabine.gathmann@rwe.com

Contacts for Investors & Analysts



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• Thomas Denny (Head of IR) Tel. +49 201 5179-2346 thomas.denny@rwe.com



Martin Vahlbrock Tel.: +49 201 5179-3117 martin.vahlbrock@rwe.com



Dr. Burkhard Pahnke Tel.: +49 201 5179-3118 burkhard.pahnke@rwe.com



• Lenka Zikmundova Tel. +49 201 5179-3116 lenka.zikmundova@rwe.com

• **Jérôme Hördemann** Tel. +49 201 5179-3119 jerome.hoerdemann@rwe.com

Susanne Lange
Tel. +49 201 5179-3120
susanne.lange@rwe.com

