# Facts & Figures 2019

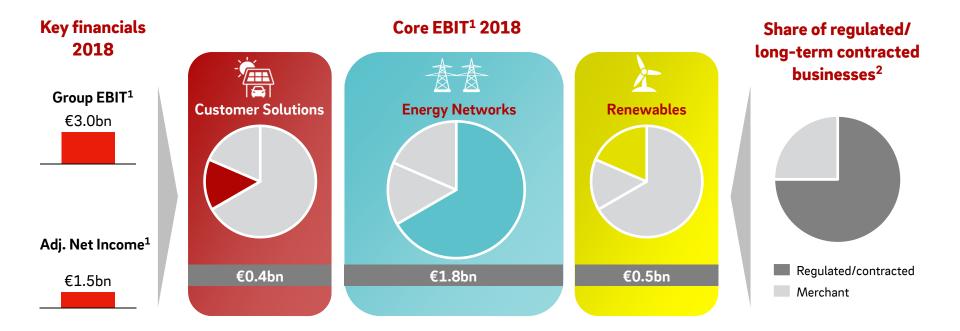


## Content

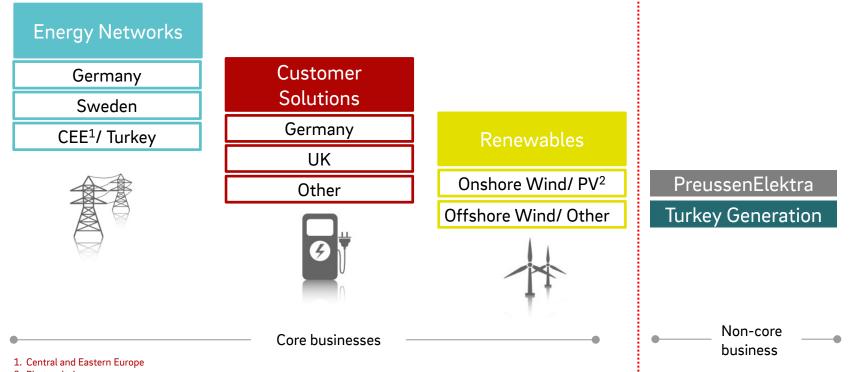
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## E.ON at a glance



## **E.ON portfolio**



2. Photovoltaic

## **Attractive combination of businesses**

### **Energy Networks**

## -€20 bn Regulated Asset Base<sup>1</sup> Germany € 10.5 bn Sweden € 3.7 bn CEE<sup>2</sup> & Turkey<sup>3</sup> € 5.8 bn -€1.4 m Smart Meters rolled out in our grid areas In total more than 10 m Smart Meters to be rolled out until 2032 -47 GW RES<sup>4</sup> capacity connected

### **Customer Solutions**

∽22 m Customers across Europe Germany 6.0 m UK 6.6 m Other EU 9.4 m<sup>5</sup>

### ∽30% of Adj. EBIT<sup>6</sup> from City Energy Solutions<sup>7</sup>

Resilience from long-term customer relations built on satisfaction and trust

### **Fast growing**

Energy solutions businesses for consumers as well as for industrial and commercial customers

### Renewables

## >7.5 GW Renewables capacity delivered since 2007

### 8 projects Under construction<sup>8</sup>

-1.3 GW total gross capacity<sup>9</sup> of projects under construction & repowering

### >€ 12 bn Investments<sup>10</sup>

12 year track record of renewables development, construction and operations

### 14.7 TWh Green Electricity produced in 2018

1. In general, Net RABs from different regulatory regimes are not directly comparable due to significant methodical differences. These include for example different regulatory asset lifetimes, asset valuation methods, or treatment of customer contributions for network connections. 2. 100% view for Slovakia 3. 100% view for Turkey 4.Renewables 5. Including Slovakia 6. Adjusted for non-operating effects 7. Former segment `Heat' 8. As of 31 December 2018 9. Including one repowering project 10. Net economic investments since 2017

## **E.ON Board of Management**

#### Johannes Teyssen Chief Executive Officer



- Strategy & Portfolio
- Human Resources
   Communications & Political Affairs
- Legal & Compliance
- Corporate Audit
- Turkey

#### Leonhard Birnbaum Chief Operating Officer

Integration



### Thomas König

Chief Operating Officer

Networks

- innogy integration project Renewables
- Sustainability & HSE

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PreussenElektra



- Procurement
- Consulting

### **Marc Spieker**

### Chief Financial Officer



- Finance
- Investor Relations
- Mergers & Acquisitions and Participation Management
- Risk Management, Accounting & Controlling
- Tax

#### Karsten Wildberger Chief Operating Officer Commercial



- Customer Solutions
- Decentralized Generation
- Energy Management
- Marketing
- Digital Transformation
- Innovation

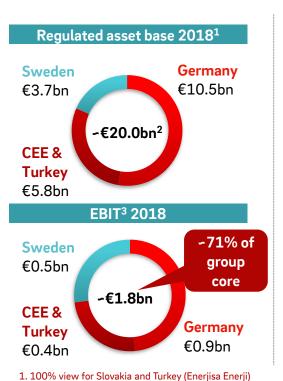
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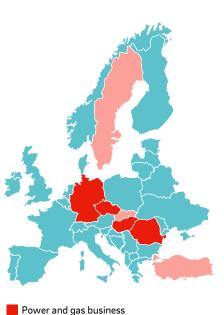


## **Energy Networks**

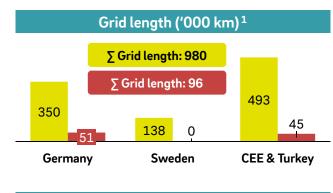


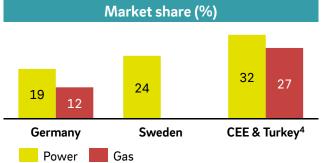
Differences may occur due to rounding.
 Adjusted for non operating effects

4. Arithmetic average



Power business only



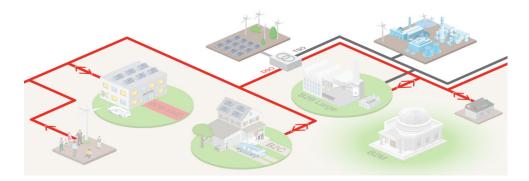


**Energy Networks** 

## **Energy Networks at a glance**

### What we do

- Within Energy Networks we provide the infrastructure for the new energy world. We manage the grids at the high, medium and low voltage levels.
- Power and gas distribution is predominantly a regulated business in our countries of operation
- We have a strong network presence in power and gas in our core markets
- 17,900 employees work in Energy Networks



2018	Germany	Sweden	Hungary	Czech Republic	Romania	Slovakia <sup>1</sup>	Total
Wheeling volumes power (TWh) <sup>2</sup>	107	37	18	14	6	10	192
Wheeling volumes gas (TWh) <sup>2</sup>	89	2	15	3	27	n/a	135
Grid length power ('000km)	350	138	84	66	81	38	757
Grid length gas ('000km)	51	n/a	18	5	22	n/a	96
RAB power & gas (€bn) <sup>3</sup>	10.5	3.7	1.6	1.7	0.8	0.6	19

1. Slovakia is not consolidated in E.ON financial statements (here: 100% view).

- 2. Small differences in reported total figures may occur due to rounding.
- 3. In general, Net RABs from different regulatory regimes are not directly comparable due to significant methodical differences. These include for example different regulatory asset lifetimes, asset valuation methods or treatment of customer contributions for network connections. RAB Slovakia and Sweden only includes power.

## **Energy Networks: Financial highlights**

**Energy Networks** 



		2017			2018			
€m	Germany	Sweden	CEE/Turkey <sup>1</sup>	Total	Germany	Sweden	CEE/Turkey <sup>1</sup>	Total
Sales <sup>2</sup>	14,199	1,072	1,719	16,990	6,243	989	1,537	8,769
Adjusted EBITDA <sup>3</sup>	1,621	632	767	3,020	1,488	648	683	2,819
Adjusted EBIT <sup>3</sup>	1,030	474	530	2,034	895	498	451	1,844
Investments (cash-effective)	703	345	371	1,419	802	341	454	1,597
Regulatory D&A <sup>4</sup>	477	282	382	1,141	465	265	397	1,127

1. Turkey (Enerjisa Enerji) and Slovakia included as an at equity participation (i.e. with net income result)

2. The presentation of sales (and costs of materials) in 2018 was substantially affected by the initial application of IFRS 15, ' Revenue from Contracts with Customers'

3. Adjusted for non-operating effects

4. Turkey (Enerjisa Enerji) not included; Slovakia 100% view

## **Energy Networks: Earnings components**

**Energy Networks** 

2018	Germany	Sweden	CEE <sup>1</sup>
Total EBITDA (€ bn)	1.49	0.6	0.6
Components of total EBITDA ( %)			
Regulated earnings	90	95	97
thereof regulatory depreciation	32	47	64
Non-regulated earnings	2	2	2
Income from participations	8	3	1

2018	Germany	Sweden	CEE <sup>1</sup>
Total EBIT (€ bn)	0.9	0.5	0.35
Components of total EBIT ( %)			
Regulated earnings	84	93	96
Non-regulated earnings	3	3	3
Income from participations	13	4	1

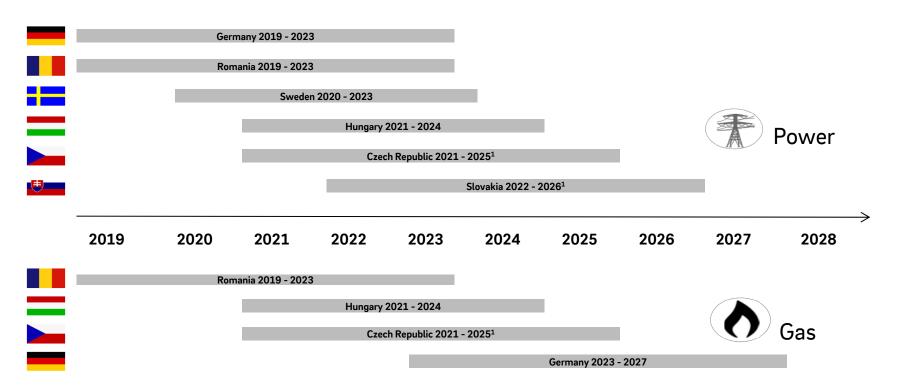
1. CEE figures include Czech, Hungary and Romania. In case of Hungary effects of Utility Tax have been excluded.

## **Energy Networks Germany – Results from participations 2018**

Company	Contribution to E.ON result 2018 (€m)
Energy Networks	
At equity consolidation	69
Städtische Werke Magdeburg GmbH & Co. KG	13
Energie und Wasser Potsdam GmbH	13
GASAG AG	10
REWAG Regensburger Energie- und Wasserversorgung AG & Co. KG	8
Stadtwerke Brandenburg an der Havel GmbH & Co. KG	5
Gasversorgung Unterfranken GmbH	4
SWS Energie GmbH	3
LSW Holding GmbH & Co. KG	3
Other	10
At cost consolidation	38
SERVICE plus GmbH	7
GasLINE Telekommunikationsnetzgesellschaft deutscher Gasversorgungsunternehmen mbH & Co. KG.	6
infra fürth GmbH	2
Other	23

## **Upcoming regulatory periods**

**Energy Networks** 



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	Energy Networks <b>2.1 Germany</b> Customer Solutions Renewables Non-Core Other



## **Energy Networks: Germany**

Germany	2017	2018		2017	2018
Grid length			Grid conduct		
Power ('000km)	349	350	Wheeling volumes power (TWh) <sup>2</sup>	108	107
Market share (%)	19	19	Wheeling volumes gas (TWh)	111	89
Gas ('000km) <sup>1</sup>	60	51	RAB power & gas (€bn) <sup>3</sup>	10.7	10.5
Market share (%)	12	10			

Major shareholdings	
Avacon AG	61.5%
Bayernwerk AG	100%
E.DIS AG	67.0%
HanseWerk AG	66.5%

1. Divestment of Hamburg Gas Grid in 2018

2. Wheeling Volumes include High Voltage (110kV)

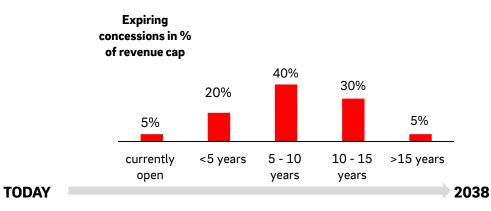
3. Pro forma RAB - not applicable for current regulatory period in power and gas; applicable RAB for current regulatory period is RAB of year 2011 (power): €7.3bn / 2015 (gas): €2.3bn

## German business with roughly 5,400 concessions

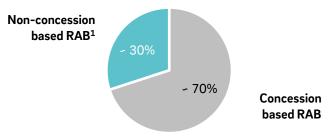
#### **Energy Networks**

### Good track record in the past

- The German networks business is based on long-term concessions granted by municipalities in the network area
- Maximum period of concession contract is **20 years**



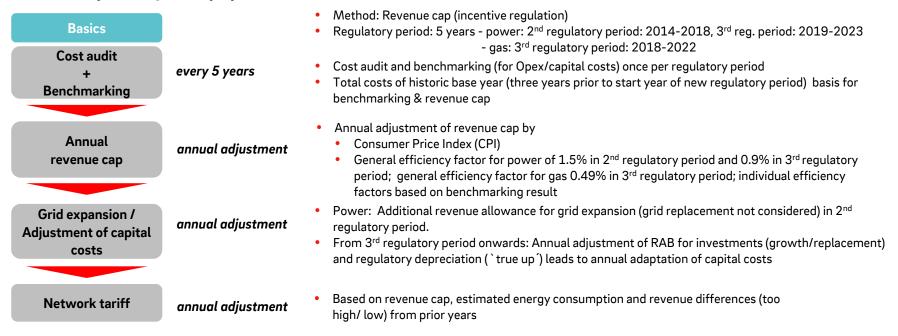
### Existing concessions



## **Regulatory environment Germany: Power & Gas**

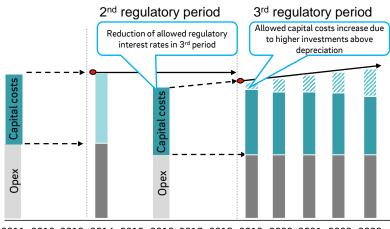
#### **Energy Networks**

### Process steps of regulatory system<sup>1</sup>



#### **Energy Networks**

## **Germany: Regulatory schedule**



### Power distribution<sup>1</sup> - Illustration

2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

Revenue cap (individual efficiency = 100%)

Actual Opex

Actual capital costs

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Opex allowance Capital cost allowance

Additional capital costs for new investments

### Commentary

### 2<sup>nd</sup> regulatory period:

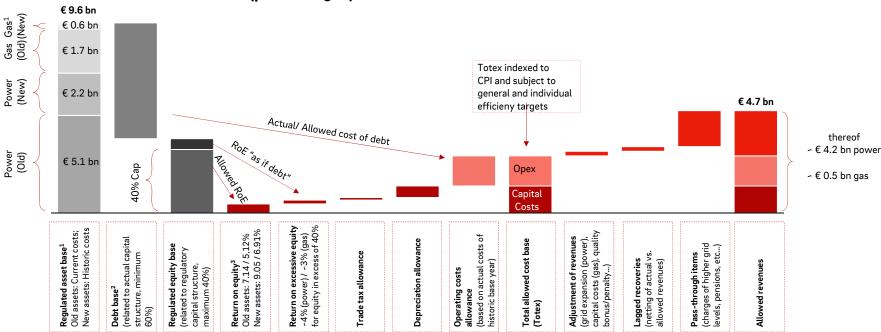
 Opex and regulatory capital costs of base year 2011 are basis for allowed revenues from 2014 till 2018<sup>1</sup>

### 3<sup>rd</sup> regulatory period:

- Opex of base year 2016 are basis for allowed revenues from 2019 onwards<sup>1</sup>
- Annual adjustment of RAB for investments (growth/replacement) and regulatory depreciation (`true up') leads to annual adaptation of capital costs
- Capital costs of base year 2016 for investments from 2007 to 2016 are kept constant in the 3<sup>rd</sup> regulatory period as interim solution due to change of regulatory system

## **Germany: Building blocks of allowed revenues**

**Energy Networks** 



### Schematic illustration for 2018 (power & gas)

1. Old assets are those capitalized before January 1, 2006. New assets are those capitalized after January 1,2006. Old assets are indexed up to 40% with asset-specific indices to determine the current costs. Relevant asset base for calculation of allowed return in 2018 is 2011 for power and 2015 for gas

2. Debt base consists of non-interest and interest bearing capital

3. Return on equity rate is post trade tax and pre corporate tax. Old assets: 7.14% (power) and 5.12% (gas), new assets 9.05% (power) and 6.91% (gas)

## **Germany: Determination of regulatory returns**

**Energy Networks** 

Regulatory returns in German power networks	2nd regulatory period			3rd regulatory period <sup>4</sup>			
Equity return	New assets <sup>1</sup>	Old assets <sup>1</sup>	Total	New assets <sup>1</sup>	Old assets <sup>1</sup>	Total	
Asset share	26%	74%	100%	50%	50%	100%	
Base rate	3.80%	2.24%		2.49%	1.04%		
Market premium	4.55%	4.55%		3.80%	3.80%		
Beta	0.38	0.38		0.40	0.40		
Levered Beta	0.79	0.79		0.83	0.83		
Equity return after tax	7.40%	5.84%		5.64%	4.19%		
Equity return pre tax	10.49%	8.27%		8.00%	5.94%		
Equity return pre corporate tax	9.05%	7.14%		6.91%	5.12%		
Cost of debt (for equity above 40%)							
pre tax	3.98%			2.72%			
post tax	2.81%			1.92%			
WACC <sup>2</sup>							
pre tax	6.58%	5.70%	5.93%	4.83%	4.01%	4.42%	
post tax	4.64%	4.02%	4.18%	3.41%	2.83%	3.12%	
Tax rate	29.53%			29.53%			
Corporate tax	15.83%			15.83%			
Trade tax	13.70%			13.70%			
Financing structure <sup>3</sup>							
Equity	40%			40%			
Debt	60%			60%			

1. Old assets are those capitalized before January 1, 2006. New assets are those capitalized after January 1, 2006. Old assets are indexed up to 40% with asset-specific indices to determine the current costs. 2. Weighted average cost of capital. The German regulator does not use a WACC-approach. The pro-forma WACC can be used to compare German regulatory returns internationally. In Germany, the regulator determines an allowed return on equity (RoE). 3. Interest free liabilities (such as construction grants) not considered 4. E.ON DSOs filed an appeal against BNetzA decision .

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## **Energy Networks: Sweden**

Sweden <sup>1</sup>	2017	2018		2017	2018
Grid length			Grid conduct		
Power ('000km)	137	138	Wheeling volumes power (TWh)	37	37
Market share (%)	25	25	Wheeling volumes gas (TWh)	4	2
Gas ('000km)	2	n/a	RAB power & gas (€bn) <sup>2</sup>	4.0	3.7
Market share (%)	71	n/a			

Major shareholdings	
E.ON Energidistribution Sverige AB	100%
E.ON Gas Sverige AB	0%

## **Regulatory environment Sweden: Power**

### Overview

#### **Basics**

- Method: Revenue cap
- Regulatory period: 2016-2019
- Next regulatory period: 2020-2023
- Photo year for Opex allowance: Four year average
- Inflation adjustment: Opex

#### Cap formula<sup>1</sup>

Revenue cap =

(Controllable costs x (PI - efficiency factor)) + non-controllable costs + (age adjusted value (number of recognized assets and planned assets x regulatory standard prices)) x WACC + depreciation<sup>2,3</sup> +/- quality adjustment

#### Other important factors

- Quality adjustment considers outages above 3 minutes and below 12 hrs and incentives for grid losses
- RES<sup>4</sup> connections are cash neutral and included in revenue cap
- 1. The cap formula is an E.ON internal interpretation of the national regulatory framework.
- 2. No assets older than 38 years in the regulatory model, but additional depreciation and return allowed for assets built before 1977, for a period of 12 years
- 3. Average regulatory depreciation (2018-2020):  ${\tt \sim} \in$  270 m p. a.

#### 4. Renewables

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, real): 5.85%
- Adjustment of RAB once a period: Standard prices set by regulator applied to recognized historic assets + planned assets according to published action plans, minus disposals and depreciation
- Depreciation period for power lines, cables and stations is 40 years and 10 years for meters and IT-systems

#### Opex

- Historical average costs 2010-2013 indexed to 2014
- Opex annually adjusted for inflation (PI)
- Inflation factor (PI) is the industry specific price index
- Efficiency factor: 1% p. a.
- Non-controllable costs are pass-through; one to one reflected in the revenue cap

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## **Energy Networks: Czech Republic**

#### **Energy Networks**

Czech Republic	2017	2018	
Grid length			
Power ('000km) <sup>1</sup>	65	66	
Market share (%)	28	28	
Gas ('000km) <sup>1</sup>	5	5	
Market share (%)	6	6	

	2017	2018
Grid conduct		
Wheeling volumes power (TWh)	14	14
Wheeling volumes gas (TWh)	4	3
RAB power and gas (€bn) <sup>2</sup>	1.6	1.7

#### Major shareholdings

E.ON Distribuce, a.s.

100%

1. Preliminary figures for 2018

2. RAB figures converted at a CZK/EUR rate of 26.33 (2017) and 25.65 (2018)

## **Regulatory environment Czech Republic: Power**

### Overview

#### **Basics**

- Method: Revenue cap
- Regulatory period: 2016-2020
- Next regulatory period<sup>1</sup>: 2021-2025
- Photo year for Opex allowance: 3 year average (based on past practice; the laws do not provide for an explicit mechanism)
- Inflation adjustment: Opex

#### Cap formula<sup>2</sup>

Revenue cap = Controllable costs x (PI - efficiency factor) + non-controllable costs + (RAB x WACC) + depreciation<sup>3</sup> + Quality bonus/malus + Market factor

#### **Other important factors**

- 100% of customer driven investment costs recognized in the RAB
- 80% of customer contributions to investment costs deducted from allowed revenues distributed over 20 years

1. Not legally set, anticipated based on past experience

 $\ensuremath{\mathbf{2}}.$  The cap formula is an E.ON internal interpretation of the national regulatory framework

3. Average regulatory depreciation (2018-2020) for power and gas:  $\backsim \in$  124m p. a.

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, nominal): 7.95%
- Depreciation period for power lines is 40 years
- Annual adjustments of RAB for depreciation and planned investments (no time lag)

#### Opex

- Historical average costs 2012-2013
- Opex annually adjusted for inflation (PI)
- Inflation factor (PI) for Opex is 70% business service price index + 30% (CPI+1%)
- General efficiency factor: 1.0% annually
- Individual efficiency factor: 0% for the current regulatory period

## **Regulatory environment Czech Republic: Gas**

### Overview

#### **Basics**

- Method: Revenue cap
- Regulatory period: 2016-2020
- Next regulatory period<sup>1</sup>: 2021-2025
- Photo year for Opex allowance: 3 year average (based on past practice; the laws do not provide for an explicit mechanism)
- Inflation adjustment: Opex

#### Cap formula<sup>2</sup>

Revenue cap = Controllable costs x (PI - efficiency factor) + non-controllable costs + (RAB x WACC) + depreciation<sup>3</sup> + Market factor

#### **Other important factors**

- 100% of customer driven investment costs recognized in the RAB
- 80% of customer contributions to investment costs deducted from allowed revenues with 20 year time distribution

1. Not legally set, anticipated based on past experience

2. The cap formula is an E.ON internal interpretation of the national regulatory framework

3. Average regulatory depreciation (2018-2020) for power and gas:  $\sim \in$  124m p. a.

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, nominal): 7.94%
- Depreciation period for gas pipes is 40 years
- Annual adjustments of RAB for depreciation and planned investments (no time lag)

#### Opex

- Historical average costs 2012-2013
- Opex annually adjusted for inflation (PI)
- Inflation factor (PI) for Opex is 70% business service price index + 30% (CPI+1%)
- General efficiency factor: 1.0% annually
- Individual efficiency factor: 0% for the current regulatory period

## **Energy Networks: Hungary**

Hungary	2017	2018		2017	2018
Grid length			Grid conduct		
Power ('000km)	85	84	Wheeling volumes power (TWh)	18	18
Market share (%)	52	52	Wheeling volumes gas (TWh)	15	15
Gas ('000km)	18	18	RAB power and gas (€bn) <sup>1</sup>	1.7	1.6
Market share (%)	21	23			

#### Major shareholdings

E.ON Dél-dunántúli Áramhálózati Zrt.	100%
E.ON Észak-dunántúli Áramhálózati Zrt.	100%
E.ON Tiszántúli Áramhálózati Zrt.	100%
E.ON Dél-dunántúli Gázhálózati Zrt.	99.96%
E.ON Közép-dunántúli Gázhálózati Zrt.	99.84%

## **Regulatory environment Hungary : Power**

### Overview

#### **Basics**

- Method: Modified revenue cap with actual quantity acceptance with two year time lag
- Regulatory period: 2017-2020
- Next regulatory period: 2021-2024
- Photo year for Opex allowance: Two years prior to the start year of the new regulatory period
- Inflation adjustment: Opex; RAB

#### Cap formula<sup>1</sup>

Modified revenue cap =

(Allowed controllable costs + non-controllable costs + (RAB x WACC) + depreciation<sup>2</sup>  $\pm$  quality adjustment) / forecasted volume<sup>3</sup> + Quality bonus/ malus

#### Other important factors

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, real): 4.69%
- Annual adjustments of RAB for inflation (CPI) and depreciation
- Smart grid investments get a 1.1 return multiplier
- Depreciation period for power lines is 37 years

#### Opex

- Historical costs 2015
- Opex annually adjusted for inflation (CPI)

- Quality factor for unplanned SAIDI<sup>4</sup>, SAIFI<sup>4</sup> and an outage rate min. level defined. Sanctions possible if non-compliant in 3-years average
- Additional revenues granted for RES<sup>5</sup> integration and connection of economy boosting investments (i.e. connection of industry parks)
- Public utility tax (125 HUF/meter of grid) and 'Robin Hood tax' (31% of tax base) not recognized as eligible costs in the network tariffs

1. The cap formula is an E.ON internal interpretation of the national regulatory framework. 2. Average regulatory depreciation (2018-2020) for power and gas: ∽ € 116 m p. a. 3. Actual volumes from year N-2 is used as forecast 4. System Average Interruption Duration Index, System Average Interruption Frequency Index 5. Renewables

## **Regulatory environment Hungary : Gas**

### Overview

#### **Basics**

- Method: Price cap
- Regulatory period: 2017-2020
- Next regulatory period: 2021-2024
- Photo year for Opex allowance: Two years prior to the start year of the new regulatory period
- Inflation adjustment: Opex; RAB

#### Cap formula<sup>1</sup>

Price cap =

(Allowed controllable costs + non-controllable costs + (RAB x WACC) + depreciation<sup>2</sup>) / forecasted volume<sup>3</sup>

#### **Other important factors**

• Public utility tax (125 HUF/meter of grid) and 'Robin Hood tax' (31% of tax base) not recognized as eligible costs in the network tariffs

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, real): 4.62%
- Annual adjustments of RAB for inflation (CPI) and depreciation
- Depreciation period for gas pipes is 40 years

#### Opex

- Historical costs 2015
- Opex annually adjusted for inflation (CPI)

<sup>1.</sup> The cap formula is an E.ON internal interpretation of the national regulatory framework.

<sup>2.</sup> Average regulatory depreciation (2018-2020) for power and gas: ∽ € 116 m p. a.

<sup>3.</sup> Actual volumes from year N-2 is used as forecast

## **Energy Networks: Romania**

Romania	2017	2018		2017	2018
Grid length			Grid conduct		
Power ('000km)	82	81	Wheeling volumes power (TWh)	6	6
Market share (%)	16	17	Wheeling volumes gas (TWh)	26	27
Gas ('000km)	22	22	RAB power and gas (€bn) <sup>1</sup>	0.8	0.8
Market share (%)	55	53			

#### Major shareholdings

Delgaz Grid SA (former E.ON Distributie SA) 5

56.5%

## **Regulatory environment Romania: Power**

### Overview

#### Basics

- Method: Price cap tariffs basket with actual volume acceptance (1 year time lag)
- Regulatory period: 2019-2023
- Next regulatory period<sup>1</sup>: 2023-2028
- Photo year for Opex allowance: The year prior to the start year of the next regulatory period (2018)
- Inflation adjustment: Opex; RAB

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, real): 5.66% for old assets, 6.66% for new assets
- Adjustments of RAB for inflation (CPI), depreciation and planned investments (no time lag) ex-ante of regulatory period and ex-post with actual investments
- In case of underinvestment (<80% of planned investments) penalties apply</li>
- Depreciation period for power lines is 30 to 40 years

### Cap formula<sup>2</sup>

• Price cap =

(Controllable costs x (1+CPI - efficiency factor) + non-controllable costs + (RAB x WACC) + depreciation<sup>3</sup> + volume adjustments (t-1) – (revenue from reactive energy)) / forecasted volume

#### Other important factors

- Efficiency factor does not apply to personnel expenses and HS&E costs
- Automatic compensations for violated quality standards towards customers
- From 2018 onwards no recognition of  $\,\acute{}$  Natural monopoly tax  $\,\acute{}$  in network tariffs
- 1. Not legally set, anticipated based on past experience
- 2. The cap formula is an E.ON internal interpretation of the national regulatory framework.
- 3. Average regulatory depreciation (2018-2020) for power and gas:  $\sim$   $\in$  62 m p. a.

#### Opex

- Historical costs 2018 and annual correction of allowed costs
- Opex annually adjusted for inflation (CPI)
- General efficiency factor: max 2 % p. a., but 40% of gained efficiency is kept by DSO

## **Regulatory environment Romania: Gas**

### Overview

#### Basics

- Modified Revenue cap
- Regulatory period: 2019-2023
- Next regulatory period<sup>1</sup>: 2023-2028
- Photo year for Opex allowance: The year prior to the start year of the next regulatory period (2018)
- Inflation adjustment: Opex ; RAB

#### Cap formula<sup>2</sup>

Revenue cap =

(Controllable costs x (1+CPI - efficiency requirements) + non-controllable costs + (RAB x WACC) + depreciation<sup>3</sup>) / forecasted volume

#### Other important factors

- Efficiency factor does not apply to personnel expenses and HS&E costs
- Automatic compensations for violated quality standards towards customers
- From 2018 onwards no recognition of 'Natural monopoly tax' in network tariffs

### Key cost factors

#### Capex

- Regulatory return (WACC) on RAB (pre-tax, real): 5.66% for old assets, 6.66% for new assets
- Adjustments of RAB for inflation (CPI), depreciation and planned investments (no time lag) ex-ante of regulatory period and ex-post with actual investments
- Depreciation period for gas pipes is 30 to 40 years

#### Opex

- Historical costs 2018 and annual correction of allowed costs
- Opex annually adjusted for inflation (CPI)
- General efficiency factor: max 2 % p. a., but 40% of gained efficiency is kept by DSO

<sup>1.</sup> Not legally set, anticipated based on past experience

<sup>2.</sup> The cap formula is an E.ON internal interpretation of the national regulatory framework.

<sup>3.</sup> Average regulatory depreciation (2018-2020) for power and gas:  ${\bf \backsim} \in$  62 m p. a.

## **Energy Networks: Slovakia**

Slovakia	2017	2018		2017	2018
Grid length			Grid conduct		
Power ('000km)	38	38	Wheeling volumes power (TWh)	10	10
Market share (%)	45	40	Wheeling volumes gas (TWh)	n/a	n/a
			RAB power (€bn)	0.6	0.6

#### Major shareholdings

Západoslovenská distribucná a.s.

49%

## **Regulatory environment Slovakia: Power**

### **Overview**

#### Basics

- Method: Price cap
- Regulatory period: 2017-2021
- Next regulatory period<sup>1</sup>: 2022-2026
- Photo year for Opex allowance: 2010
- Inflation adjustment: Opex

#### Cap formula<sup>2</sup>

Price cap per voltage level<sup>3</sup> =

 (Opex allowance x (1 + core inflation - efficiency factor) + (RAB 2010 YE x WACC) + depreciation (from RAB 2010 YE + from planned Capex for next year)<sup>4</sup> - revenues from connections & recovery of illegal consumption & exceeding reserved capacity ± correction on depreciation (from planned vs. actual Capex)) / forecasted volume

#### Other important factors

- Automatic compensations for violated quality standards towards customers
- 1. Length of upcoming regulatory period still under discussion
- 2. The cap formula is an E.ON internal interpretation of the national regulatory framework.
- 3. Price caps for high voltage (110 kV), medium voltage (22 kV) and low voltage (0.4 kV)
- 4. Average regulatory depreciation (2018-2020): ∽ € 92 m p. a.

### Key cost factors

#### Capex

- Regulatory return (WACC pretax, nominal) on RAB: set annually; 6.27% for 2018
- RAB: Depreciated asset base based on external value appraisal of assets, investments and depreciation prepared by Slovakian regulator
- Depreciation period for power lines is 30 (LV) to 35 years (MV, HV)

#### Opex

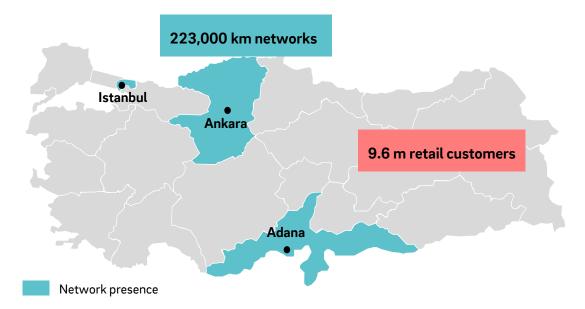
- Historical costs 2010
- Opex annually adjusted for inflation
- Inflation factor for Opex is core inflation, however escalation index (1+ core inflation - efficiency) cannot be below 1.0
- Efficiency factor (applied to Opex): 3.5% p. a.

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#### Turkey: Enerjisa Enerji



#### **Energy Networks**

#### Enerjisa Enerji (Networks & Retail):

- #1 Distribution Network Operator by grid length
- #1 Energy supplier by customer number



**Energy Networks** 

# Enerjisa Enerji : Financial highlights

Enerjisa Enerji (Networks & Retail) <sup>1</sup>	2017	2018
Revenues (TRL m)	12,345	18,189
EBITDA + Capex Reimbursement <sup>2</sup> (TRL m)	3,147	4,884
Net Income (TRL m)	985	755
thereoff one-offs (i.a. change in IFRIC 12 financial asset value)	466	-9
E.ON share of 50% in 2017 & 40% since Feb-18 (€m) <sup>3</sup>	114	57
Acquisition related depreciation charges (run rate)	-6	-5
FX hedges and other <sup>4</sup>	-1	0
Contribution to E.ON Adjusted EBITDA/Net Income (€m)	107	52

1. 100% Enerjisa view

3. Quarter end FX spot rates applied. Enerjisa Enerji ownership before IPO (Feb-2018) 50%

4. 2017 split pro rata (50% ownership each) to Enerjisa Enerji and Enerjisa Üretim.

<sup>2.</sup> CAPEX reimbursements refer to cash effective amortization of the regulatory asset base, but due to the application of IFRIC 12 (accounting for concessions) not recognized as income under IFRS. To facilitate the comparability of Energisa's earnings across the sector, of which the peers may recognize regulatory amortization as income, the non-IFRS KPI "Operational Earnings" defined as EBITDA plus CAPEX reimbursements is applied. Excludes one-offs.

#### Enerjisa Enerji: Networks & Retail

Distribution	2017	2018	
Power grid length ('000km) <sup>1</sup>	220	223	
Market share (%) <sup>2</sup>	20	20	
Grid conduct (TWh)	45	46	
RAB (€bn) <sup>3</sup>	1.2	1.1	
RAB (TRL bn)	5.3	6.9	

Retail	2017	2018
Power sales (TWh)	35.2	41.1
Market share (%) <sup>4</sup>	14	17
# of customers	9.2	9.6
Market share (%) <sup>5</sup>	22	23

1. Latest available as of Sep'18

2. Latest available data, official data for 2018 not yet published

3. RAB figure converted at a TRL/EUR rate of 4.5 (2017, end of period) and 6.1 (2018, end of period)

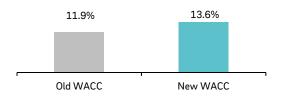
4. Based on total net demand

5. Assumed based on latest available data, official data for 2018 not yet published

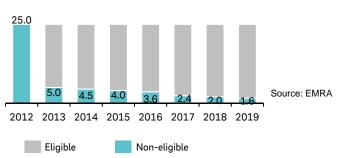
# **Networks & Retail: Regulatory environment**

#### Networks

Regulatory - WACC (Pre-tax real, local currency)



#### Retail



Evolution of market liberalization - Eligibility threshold (MWh p.a.)

#### Regulatory incentive framework

- 3<sup>rd</sup> regulatory period: 2016-2020
- Return on RAB (RAB 2017: TRL 6.9bn)
- Opex outperformance
- Theft & loss allowance outperformance

#### Recent regulatory review provides additional improvements

- WACC increase from 11.91% to 13.61% (real return)
- Increased theft identification benefit

#### Partially liberalized energy market

- Above a certain consumption threshold, customers can chose their own energy supplier (eligible customers)
- Below the consumption threshold, customers are bound by regulated tariffs (non-eligible customers)
- Eligibility limit for regulated tariff consistently reduced. In 2018 however most customers choose the regulated tariff.
- Continued liberalization expected, opening up new market and profit pools.
- Last resort tariff reduced for industrials with consumption from >50GWh to >10 GWh

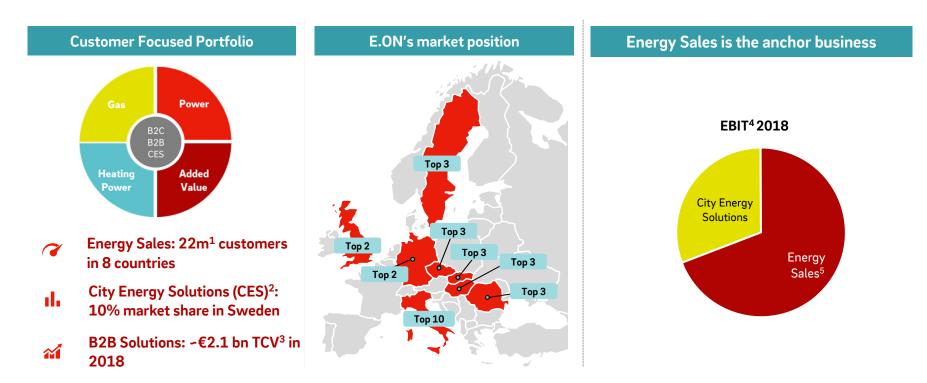
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## **Customer Solutions**

**Customer Solutions** 



1. Excluding Turkey 2. Former segment 'Heat' 3. Total Contract Value 4. Adjusted for non-operating effects 5. Including B2B&B2C New Solutions

**Customer Solutions** 

# **Customer Solutions at a glance**

#### What we do

- Customer Solutions comprises energy sales, new customer solutions for consumers, industrial and commercial customers and cities
- The product offering ranges from classic power and gas sales to district and local area heating solutions and new solutions, such as on-site generation, virtual power plants, energy efficiency, smart metering, e-mobility, future energy home with home heating, energy management solutions, PV + battery etc.
- The focus is laid on customers within three business segments: B2C<sup>2</sup>, B2B<sup>3</sup> and cities and municipalities<sup>4</sup>
- 19,690 employees work in Customer Solutions



2018	Germany	UK	Sweden	Romania	Hungary	Czech Rep.	Slovakia <sup>1</sup>	Italy	Total
# of customers (m)	6.0	6.6	0.8	3.1	2.5	1.2	1.0	0.8	22.0
Power sales (TWh)	38.1	32.3	15.8	5.6	13.5	14.0	6.0	8.3	134
Gas sales (TWh)	33.0	44.1	6.3	26.9	4.1	9.4	2.7	11.3	138

1. Consolidated on a 49% basis in adjusted EBIT/Net Income of E.ON Financial Statements. Figures shown here: 100% view

- 2. Domestic customers, e.g. families, single-households (B2C = Business to consumer)
- 3. B2B = Business to business

4. City energy solutions addresses the business to municipalities, cities and districts.

#### **Customer Solutions: Financial highlights**

**Customer Solutions** 



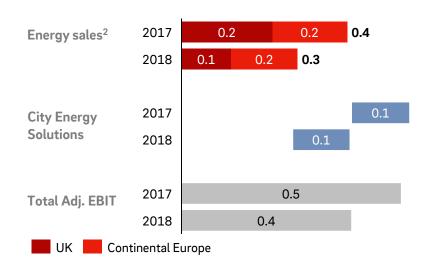
		2017	,			2018	3	
€bn	Germany	UK	Other	Total	Germany	UK	Other	Total
Sales	7,014	7,205	7,357	21,576	6,768	7,758	7,601	22,127
Adjusted EBITDA <sup>1</sup>	132	351	312	795	193	237	294	724
Adjusted EBIT <sup>1</sup>	102	248	129	479	160	142	111	413
Adjusted EBIT margin (%) <sup>1</sup>	1.5	3.4	1.8	2.2	2.4	1.8	1.5	1.9
Investments (cash-effective)	25	211	360	595	35	207	395	637

1. Adjusted for non-operating effects

# **Customer Solutions: Financial highlights**

#### **Customer Solutions**

#### Adjusted EBIT<sup>1</sup> by business pillars €bn





1. Adjusted for non-operating earnings; Slight differences may occur due to rounding.

- 2. Including B2B/B2C New Solutions
- 3. 2017 figures have been restated.
- 4. Costs to serve, costs to acquire and all other cost related to running the business

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# **Energy sales: Germany & UK**

Germany	2017	2018
Power sales (TWh)	39.5	38.1
# of E.ON customers - power (m)	5.1	5.1
# of customers total market - power (m) <sup>1</sup>	45.4	46.1
Market share (%)	11	11
Gas sales (TWh) <sup>2</sup>	43.9	33.0
# of E.ON customers - gas (m)	0.8	0.9
# of customers total market - gas $(m)^1$	12.4	12.3
Market share (%)	7	7

UK	2017	2018
Power sales (TWh)	34.8	32.3
# of E.ON customers - power (m)	4.2	4.1
# of customers total market - power (m) <sup>1</sup>	28.1	28.4
Market share (%) <sup>1</sup>	13	13
Gas sales (TWh)	42.5	44.1
# of E.ON customers - gas (m)	2.6	2.5
# of customers total market - gas (m) <sup>1</sup>	22.7	23.3
Market share (%) <sup>1</sup>	11	10
# of E.ON customers - B2B (m) <sup>2</sup>	0.5	0.5
# of E.ON customers - B2C (m)	6.3	6.1

Major shareholdings	
E WIE EINFACH Strom & Gas GmbH	100%
E.ON Energie Deutschland GmbH	100%

#### Major shareholdings

n/a

1. According to Report from Bundesnetzagentur "Monitoringbericht 2017" and "Monitoringsbericht 2018"

2. Expected decrease of 9 TWh Gas in 2018 by discontinuation delivery chain to Uniper

Residential customers only
 SME customers only

#### **Energy sales: Sweden & Italy**

Sweden	2017	2018
Power sales (TWh)	15.7	15.8
# of E.ON customers - power (m)	0.7	0.8
# of customers total market - power (m) <sup>1</sup>	4.5	5.4
Market share (%)	16	15
Gas sales (TWh)	3.0	6.3
# of E.ON customers - gas (m)	0.01	0.01
# of customers total market - gas $(m)^1$	0.03	0.04
Market share (%)	29	35

Italy	2017	2018
Power sales (TWh)	7.6	8.3
# of E.ON customers - power (m)	0.3	0.3
# of customers total market - power (m)	13.8	15.3
Market share (%)	2	2
Gas sales (TWh)	10.4	11.3
# of E.ON customers - gas (m)	0.5	0.5
# of customers total market - gas (m)	21.1	21.2
Market share (%)	2	2

Majo	r shareholdings		Major shareholdings
E.ON	Sverige AB	100%	E.ON Energia SpA
E.ON	Nord Sverige AB	100%	
E.ON	Värme Sverige AB	100%	

100%

#### **Energy sales: Romania & Czech Republic**

#### **Customer Solutions**

Romania	2017	2018
Power sales (TWh) <sup>1</sup>	6.0	5.6
# of E.ON customers - power (m)	1.4	1.4
# of customers total market - power (m) $^2$	9.0	9.1
Market share (%)	16	15
Gas sales (TWh)	27.2	26.9
# of E.ON customers - gas (m)	1.7	1.7
# of customers total market - gas (m) <sup>3</sup>	3.7	3.8
Market share (%)	46	45

Czech Republic	2017	2018
Power sales (TWh)	16.1	14.0
# of E.ON customers - power (m) <sup>1</sup>	1.0	1.0
# of customers total market - power (m) $^2$	5.8	6.0
Market share (%)	18	17
Gas sales (TWh)	10.0	9.4
# of E.ON customers - gas (m) <sup>1</sup>	0.2	0.2
# of customers total market - gas (m) $^2$	2.8	2.8
Market share (%)	8	8

Major shareholdings		Major shareholdings	
E.ON Energie Romania	68.2%	E.ON Česká republika, s.r.o.	100%
E.ON Gaz Furnizare	68.2%	E.ON Energie, a.s.	100%
		E.ON Servisní, s.r.o.	100%

1. Data for 2017 has been updated to reflect the final financial information for 2017 2. Available data as per June 2018 3. Available data as per September 2018

E.ON Česká republika, s.r.o.	100%
E.ON Energie, a.s.	100%
E.ON Servisní, s.r.o.	100%

1. In 2017 only B2C segment included, in 2018 all customer segments are included 2. Reflects most recent figure

# **Energy sales: Hungary & Slovakia**

2017	2018
13.0	13.5
2.5	2.5
5.6	5.6
45	45
4.1	4.1
0.0	0.0
3.4	3.5
0.2	0.3
	13.0 2.5 5.6 45 4.1 0.0 3.4

Slovakia	2017	2018
Power sales (TWh)	5.7	6.0
# of E.ON customers - power (m) <sup>1</sup>	0.9	0.9
# of customers total market - power (m) $^2$	2.5	2.5
Market share (%)	40	37
Gas sales (TWh)	2.7	2.7
# of E.ON customers - gas (m) <sup>1</sup>	0.1	0.1
# of customers total market - gas (m) <sup>2</sup>	1.5	1.5
Market share (%)	4	5

# Major shareholdings100%E.ON Energiatermelő Kft.100%E.ON Gazdasági Szolgáltató Kft.100%E.ON Ügyfélszolgáltató Kft.100%E.ON Energiaszolgáltató Kft.100%E.ON Energiakereskedelmi Kft.100%

#### Major shareholdings

Západoslovenská energetika, a.s. 49%

2017 figure has been restated
 Actual data (2017-2018) based on Hungarian Central Statistical Office data
 Exit from B2C January 1, 2016

1. Adjustment of retail/SME customer definition for 2017/2018 to include active metering points rather than customer accounts

2. Market data on number of metering points from latest DSO annual reports

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# **City Energy Solutions**

**Customer Solutions** 

City Supply	<ul> <li>Large-scale city heating &amp; cooling solutions (e.g. in Malmö, Stockholm, Hamburg)</li> <li>Growth opportunities through new connections to established district heating networks &amp; new grids (e.g. Berlin Schönefeld)</li> </ul>	<ul> <li>Typical duration 20-40 years</li> <li>Typical TCV<sup>1</sup> € 0.1–1bn</li> </ul>
City Quarter Solutions	<ul> <li>Sustainable city districts with integrated heating &amp; cooling solutions based on maximum of renewables (e.g. Tegel, Berlin; Elephant &amp; Castle, London)</li> <li>Growth opportunities through new-build &amp; retrofit of large areas or districts in cities</li> </ul>	<ul> <li>Typical duration 20-40 years</li> <li>Typical TCV<sup>1</sup> € 10-100m</li> </ul>
Single Site Solutions	<ul> <li>Decentralized, sustainable local energy solutions (shopping malls – e.g. Westfield, London; Koppenstraße, Berlin, office buildings or hospitals)</li> <li>Growth opportunities through new-build &amp; retrofit of large single sites in cities</li> </ul>	<ul> <li>Typical duration 10-20 years</li> <li>Typical TCV<sup>1</sup> € 1-20m</li> </ul>

# New Solutions: Future Energy Home and eMobility (B2C)

**Customer Solutions** 



#### PV & Storage

More than 5x revenue growth in key growth regions Italy, UK, Sweden

Continuous improvement of solutions portfolio through development of integrated PV & eMobility propositions and attractive financing offerings

E.ON SolarCloud user base significantly grown in Germany and solution rolled out in the Czech Republic  $21^{\circ}^{+}_{-}$  Home Heating

More than triple revenue growth of heating devices – boiler, heat pump, fuel cell, air-conditioning – across E.ON regions

Profitable growth in UK, Romania, and Hungary

#### Continuous development of

portfolio to provide comfort at home with sustainable solutions e.g. cooling solution in Italy, smart-thermostat offering in Romania



Development of highly-secure, smart and efficient home energy management solution in collaboration with Microsoft

#### Pilot to offer Future Energy Home

 an integrated smart and energy efficient home - to customers with the Berkeley Group in the UK

Green Mortgages pilot launched with BNP Paribas to support customer financing for energy efficient homes



**Solutions** 

Infrastructure

Progress developing Ultra-Fast-Charging network with first stations operating in Germany and Denmark, and JV created with Clever

Cooperation with Nissan to develop vehicle-to-grid and decentralized energy generation and storage solutions

Launch of intelligent EV charging network across Europe with Virta

New market entry in Norway and Italy

Installation

Build up of installation capabilities and capacities across all regions through acquisitions, partnerships, and joint venture

## New Solutions: B2B Large

On-site Generation	<ul> <li>On-site supply of heat, steam, power, cooling and pressurized air</li> <li>Bespoke onsite power and heat supply independent from technolog ranging from ~5-200MW</li> <li>Digitization of the entire value chain with IQ-CHP (intelligent, digital production and energy networks</li> <li>AI-based solutions for remote O&amp;M of decentral assets by remote compared to the set of t</li></ul>	CHP) to integrate customer
Energy Efficiency	<ul> <li>Manage energy consumption</li> <li>Optimization of energy and core manufacturing processes with AI the Machine for digital value-added services, e.g. predictive maintenance</li> <li>Cost reduction via digital platform (Optimum), e.g. by steering energy</li> <li>Remote optimization to enable energy savings and asset reliability</li> </ul>	e e
Flexibility & Storage	<ul> <li>Optimizing and monetizing central and decentral flexibility</li> <li>Bundling flexibilities in a VPP platform and offering to the TSO via o</li> <li>Forecasting annual maximum load for ensuring feed-in at the correct</li> <li>Load profile analysis, forecasting and peak shaving with battery or h saving on grid fees of up to 80%</li> </ul>	ct time
Energy Consulting	<ul> <li>Designing and delivering integrated energy solutions</li> <li>Optimizing of a business' energy usage by designing highly individual</li> <li>Running an energy audit to identify savings potential</li> <li>Designing detailed action plan based on insights from energy audit</li> </ul>	al integrated energy solutions

# **City Energy Solutions and New Solutions in figures**

Heat networks as part of City Energy Solutions	2017	2018
Germany		
Heat sales (TWh) <sup>1</sup>	3.3	3.2
Market share (%)	5	5
# of connected households (k)	140	140
Sweden		
Heat sales (TWh) <sup>2</sup>	5.4	4.0
Market share (%) <sup>2</sup>	10	8
# of connected households (k) <sup>3</sup>	370	370
UK		
Heat sales (TWh)	0.7	0.8
Market share (%)	15	15
# of connected households (k)	24	24
Total		
Heat sales (TWh)	8.3	8.0
# of connected households (k)	534	534

New Solutions (B2B)	2017	2018
On-site generation (incl. industrial generation) (MW)	1,315	1,318
thereof Germany <sup>1</sup>	700	701
thereof UK	481	474
thereof Italy	89	87
thereof Belgium <sup>1</sup>	40	50
thereof Russia <sup>1, 2</sup>	6	6
Energy efficiency (# sites connected)	9,544	8,783
thereof Germany <sup>3</sup>	178	232
thereof UK <sup>4</sup>	9,282	8,448
thereof France	84	103
Flexibility & Storage (MW)	487	463
thereof Germany	286	230
thereof UK	201	233
Renewables marketing (GW) - Germany only	4	6

1. Value for 2017 has been restated. Value for 2018 impacted mostly by weather effects.

2. Disposal of several small networks in late 2017

3. Number of households comprises major networks only, therefore number of households not affected by 2017 disposals

1. Incl. partially owned sites

2. Russia added in 2018 with values for 2017 and 2018

3. Definition for connected sites standardised across all markets and corrected for Germany for 2017

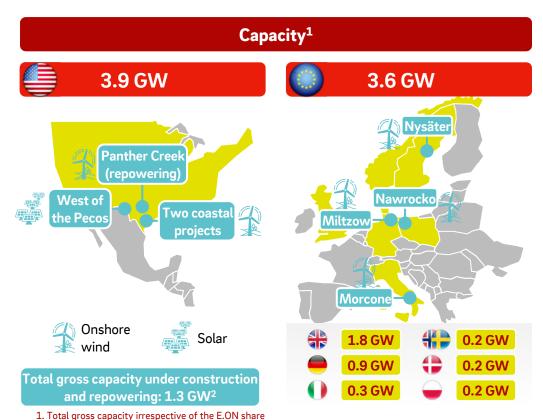
4. Definition for connected sites standardised across all markets and corrected for UK for 2017 .

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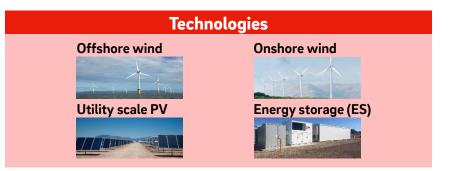
#### Renewables





2. Including one repowering project

# **Renewables at a glance**





#### Owned capacity<sup>2</sup> (GW)

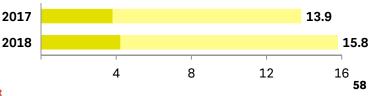


1. Operations & Maintenance, Asset Management and Energy Management via our "E.ON Energy Services" department 2. Pro rata

#### What we do

- We are among the largest renewable energy players in our core markets (Europe and US), looking to expand globally (to Latin America and Asia-Pacific)
- Our strategic focus is to grow at scale in onshore and offshore wind, rise from boutique to industrial in utility-scale solar business, and grow the utility-scale energy storage business
- We provide third-party services<sup>1</sup> with an owner's eye
- We manage holistically the commercial and technical risks, and partner with investors at different stages of a project's life cycle, allowing us to maximize value
- 1,370 E.ON employees work in Renewables

#### TWh produced<sup>2</sup>



#### **Renewables: Financial highlights**



		2017			2018	
€m	Onshore Wind/ PV+ES	Offshore Wind/ Others <sup>1</sup>	Total	Onshore Wind/ PV+ES	Offshore Wind/ Others <sup>1</sup>	Total
Sales <sup>2</sup>	927	677	1,604	1,148	606	1,754
Adjusted EBITDA <sup>3</sup>	299	486	785	300	560	861
Adjusted EBIT <sup>3</sup>	117	337	454	142	379	521
Investments (cash-effective)	568	657	1,225	562	475	1,037

1. Segment "Others" includes support functions

2. PTC are not reflected as "Sales" in P&L, but as "Other income"

3. Adjusted for non-operating effects

# Technology and country profile

Renewal	bles
---------	------

		Capacity	(MW)	Production (GWh)					
2018	Onshore	Offshore	PV+ES	Total	Onshore	Offshore	PV+ES	Total	
Accounting view									
Germany	220	302	0	523	333	1,122	0	1,454	
UK	250	1,042	0	1,292	558	3,066	0	3,624	
US	2,824	0	35	2,859	8,069	0	38	8,107	
Denmark	0	0	0	0	0	0	0	0	
Sweden	123	48	0	171	299	180	0	479	
Poland	161	0	0	161	329	0	0	329	
Italy	328	0	0	328	654	0	0	654	
Total	3,906	1,393	35	5,334	10,242	4,367	38	14,647	
Pro rata view									
Germany	161	511	0	672	244	1,310	0	1,553	
UK	266	843	0	1,109	599	2,589	0	3,189	
US	3,227	0	47	3,274	9,444	0	43	9,487	
Denmark	0	41	0	41	0	147	0	147	
Sweden	115	48	0	163	278	180	0	457	
Poland	155	0	0	155	319	0	0	319	
Italy	328	0	0	328	654	0		654	
Total	4,252	1,443	47	5,742	11,538	4,226	43	15,807	

#### **Onshore wind + PV/ES: Key data**

	Capacity (MW) Production (GWh) A							
	2017	2018	2017	Load factor % <sup>1</sup>	2018	Load factor % <sup>1</sup>	2018	
Accounting view								
Germany	220	220	392	21	333	16	92	
UK	250	250	552	26	558	26	110	
US Onshore	2,623	2,824	6,503	36	8,069	35	33	
US PV + ES	15	35	39	n/a	38	n/a	129	
Sweden	123	123	361	33	299	28	30	
Poland	161	161	377	27	329	24	62	
Italy	328	328	629	22	654	24	138	
Total	3,720	3,941	8,854	33	10,280	31		
Pro rata view								
Germany	161	161	284	20	244	16	92	
UK	266	266	587	25	599	25	111	
US Onshore	3,026	3,227	7,812	36	9,444	36	38	
US PV + ES	27	47	39	n/a	43	n/a	128	
Sweden	115	115	336	33	278	28	30	
Poland	155	155	365	27	319	24	62	
Italy	328	328	629	22	654	24	138	
Total	4,078	4,299	10,053	33	11,581	33		

1. Net Load Factor is the amount of generation produced compared to what is theoretically possible at maximum capacity (wind does not influence this). It is calculated by the following formula: Reported generation / (Weighted average capacity x 24 hours x number of operational days in the period). Please note that reported generation may deviate from production figures shown in this presentation due to settlement adjustments.

# **Offshore wind: Key data**

Renewables

-

Capacit	y (MW)		Avg. revenue (€/MWh)			
2017	2018	2017	Load factor %	2018	Load factor %	2018
302	302	1,144	44	1,122	43	194
646	1,042	2,241	40	3,066	35	153
0	0	0	0	0	0	0
48	48	199	48	180	44	27
996	1,393	3,585	42	4,367	38	
318	511	1,202	43	1,310	40	192
646	843	2,241	40	2,589	35	153
41	41	167	46	147	41	84
48	48	199	48	180	44	27
1,053	1,443	3,809	42	4,226	37	
	2017 302 646 0 48 996 318 646 41 48	302         302           646         1,042           0         0           48         48           996         1,393           318         511           646         843           41         41           48         48	2017         2018         2017           302         302         1,144           646         1,042         2,241           0         0         0           48         48         199           996         1,393         3,585           318         511         1,202           646         843         2,241           41         41         167           48         48         199	2017         2018         2017         Load factor %           302         302         1,144         44           646         1,042         2,241         40           0         0         0         0           48         48         199         48           996         1,393         3,585         42           318         511         1,202         43           646         843         2,241         40           41         41         167         46           48         48         199         48	$\begin{array}{ c c c c c c c } \hline 2017 & 2018 & 2017 & Load factor \% & 2018 \\ \hline 302 & 302 & 1,144 & 44 & 1,122 \\ \hline 646 & 1,042 & 2,241 & 40 & 3,066 \\ \hline 0 & 0 & 0 & 0 & 0 \\ \hline 0 & 0 & 0 & 0 & 0 \\ \hline 48 & 48 & 199 & 48 & 180 \\ \hline 996 & 1,393 & 3,585 & 42 & 4,367 \\ \hline \\ $	2017         2018         2017         Load factor %         2018         Load factor %           302         302         1,144         44         1,122         43           646         1,042         2,241         40         3,066         35           0         0         0         0         0         0           48         48         199         48         180         44           996         1,393         3,585         42         4,367         38           318         511         1,202         43         1,310         40           646         843         2,241         40         2,589         35           41         41         167         46         147         41           48         48         199         48         180         44

# **Portfolio changes in 2018**

				Portfolio Chang	jes 2018					
				Transaction date	Pre transaction		Post transaction		Support	
Windfarm	Total capacity MW	Load factor %	Type of transaction		E.ON share in %	Accounting treatment <sup>1</sup>	E.ON share in %	Accounting treatment <sup>1</sup>	Support regime <sup>2</sup>	Support level/ MWh
Offshore										
Blyth (NFFO)	2	0	not operational <sup>3</sup>	Q1 2018	100	1				
Blyth (ROC)	2	0	not operational <sup>3</sup>	Q1 2018	100	1				
Rampion	400	29	Commissioning	04/2018	50	2	50	2	ROC	1.8 ROC
Arkona <sup>4</sup>	385	n/a	Commissioning	12/2018	50	За	50	3a	FIT	€184
Onshore										
Stella	201	41	Commissioning	12/2018	100	1	100	1	REC/PTC	\$ 24
PV & ES										
Texas Waves - Pyron	10	n/a	Commissioning	01/2018	100	1	100	1	ITC	n/a
Texas Waves - Inadale	10	n/a	Commissioning	01/2018	100	1	100	1	ITC	n/a

1. For details regarding accounting treatments please refer to page 81 of the Facts & Figures presentation.

2. For details regarding support regimes please refer to pages 78ff. of the Facts & Figures presentation.

3. The site is not operational, will be decommissioned until the end of 2019

4. Remuneration Arkona: 184 €/MWh for 8 years, 149 €/MWh for further 2.1 years, then 39 €/MWh for 9.9 years

#### **Projects under construction**

Projects under construction											
Windfarm	Country	Total capacity MW	E.ON share pro rata MW	E.ON share in %	Accounting treatment <sup>1</sup>	Load factor % (est.)	COD <sup>2</sup>	Support regime	Support expiry	Support level/MWh	
Onshore											
Morcone	IT	57	57	100	4	38	Q3/2019	CfD	2039	66€/MWh	
Nawrocko	PL	7	7	100	1	43	Q1/2020	CfD	2035	competitive bid	
Miltzow	DE	7	5	67	2	23 <sup>3</sup>	Q2/2020	CfD	2040	competitive bid	
Nysater	SE	474	95	20	За	40	and	PPA		mutual agreement	
Two coastal projects	US	371	371	100	1	37	Q4/2019	REC/PTC	2029	24 \$/MWh	
Panther Creek I&II (repowering) <sup>5</sup>	US	275	275	100	1	44	07/2019	REC/PTC	2029	24 \$/MWh	
Total Onshore		1,191	810								
PV & ES											
West of the Pecos	US	100	100	100	1	32	12/2019	ITC	2049	n/a	
Total PV & ES		100	100								

1. As of 31 December 2018

2. Commercial operation date

3. Average Net Load factor for 2 turbines to be upgraded

4. 307 MW will be commissioned in Q1 2021, 167 MW will be commissioned in Q4 2021.

5. Current total capacity 258 MW

# **Asset overview Germany (Onshore 1)**

enewables
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		As	ssets Germany					
Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor % <sup>1</sup>	COD	Support regime	Support expiry
5	67	3	2	7	17	04/2002	FIT	03/2022
4	67	2	2	5	15	12/2003	FIT	12/2023
2	67	1	2	3	17	07/2004	FIT	12/2024
6	67	4	2	10	17	12/2004	FIT	12/2024
3	67	2	2	4	20	02/2006	FIT	06/2024
3	67	2	2	3	12	12/2001	FIT	10/2021
3	67	2	2	5	15	04/2004	FIT	12/2024
22	100	22	1	31	17	08/2006	FIT	12/2026
12	67	8	2	11	11	12/2002	FIT	12/2022
10	67	7	2	11	11	11/2002	FIT	12/2022
6	7	0	За	6	11	04/2002	FIT	12/2022
18	67	12	2	26	14	05/2005	FIT	12/2025
12	67	8	2	15	15	01/2004	FIT	12/2014
3	67	2	2	5	16	03/2004	FIT	12/2023
4	67	3	2	8	19	12/2001	FIT	03/2022
10	67	7	2	25	31	09/2013	FIT	12/2033
	MW 5 4 2 6 3 3 3 3 3 22 12 10 6 12 10 6 18 12 3 4	MW         %           5         67           4         67           2         67           6         67           3         67           3         67           2         100           12         67           10         67           6         7           12         67           13         67           4         67           12         67           3         67           4         67	Total capacity MW         E.ON share %         Pro rata MW           5         67         3           4         67         2           2         67         1           6         67         4           3         67         2           3         67         2           3         67         2           10         67         7           6         7         0           12         67         8           10         67         7           6         7         0           12         67         8           3         67         2           3         67         2           12         67         8           10         67         7           6         7         0           18         67         12           12         67         8           3         67         2           4         67         3	MW         %         MW         treatment           5         67         3         2           4         67         2         2           2         67         1         2           6         67         4         2           3         67         2         2           3         67         2         2           3         67         2         2           3         67         2         2           3         67         2         2           3         67         2         2           10         67         7         2           10         67         7         2           6         7         0         3a           18         67         12         2           12         67         8         2           3         67         2         2           12         67         8         2           3         67         2         2           12         67         8         2           3         67         2         2	Total capacity MW         E.ON share %         Pro rata MW         Accounting treatment         Total production 2018 GWh <sup>1</sup> 5         67         3         2         7           4         67         2         2         5           2         67         1         2         3           6         67         4         2         10           3         67         2         2         3           3         67         2         2         3           3         67         2         2         3           3         67         2         2         3           10         2         10         31         31           12         67         8         2         11           10         67         7         2         11           10         67         7         2         11           6         7         0         3a         6           11         6         7         2         26           11         67         12         2         26           12         67         8         2         15	Total capacity MWE.ON share %Pro rata MWAccounting treatmentTotal production 2018 GWh1Load factor %15673271746722515267123176674210173672242036722312367225152210022131171267821111106772111116703a61112678211151867122261412678215153672251646732819	Total capacity MWE.ON share %Pro rata MWAccounting treatmentTotal production 2018 GWh1Load factor %1COD5673271704/20024672251512/20032671231707/200466742101712/20043672231202/20063672231212/20013672251504/200422100221311708/2006126782111111/2002106772111111/20026703a61104/20021867122261405/2005126782151501/20044673281912/2001	Total capacity MW         E.ON share %         Pro rata MW         Accounting treatment         Total production 2018 GWh <sup>1</sup> Load factor % <sup>1</sup> CD         Support regime           5         67         3         2         7         17         04/2002         FIT           4         67         2         2         5         15         12/2003         FIT           2         67         1         2         3         17         07/2004         FIT           6         67         4         2         100         17         12/2003         FIT           3         67         2         2         4         20         02/2006         FIT           3         67         2         2         3         12         12/2001         FIT           3         67         2         2         3         12         12/2001         FIT           3         67         2         2         5         15         04/2004         FIT           12         100         22         11         31         17         08/2006         FIT           12         67         8         2         11         11

1. Total production of the wind farm irrespective of the E.ON share (100% view)

2. Kessin is a financial investment, of which E.ON holds a 7% share.

# **Asset overview Germany (Onshore 2)**

			As	sets Germany					
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor % <sup>1</sup>	COD	Support regime	Support expiry
Mutzschen I	8	67	5	2	15	16	12/2004	FIT	01/2022
Mutzschen II	6	67	4	2	12	17	09/2006	FIT	08/2023
Naundorf I	14	67	9	2	13	8	04/2004	FIT	11/2023
Naundorf II	4	67	3	2	6	12	02/2007	FIT	05/2023
Neustadt Dosse	7	67	4	2	17	29	05/2017	FIT	12/2037
Poppendorf I	5	67	3	2	8	18	01/2006	FIT	01/2025
Poppendorf II	7	67	5	2	12	17	08/2007	FIT	05/2023
Riethnordhausen	10	67	7	2	15	17	12/2007	FIT	12/2027
Schönerlinde I	2	67	1	2	2	13	12/2002	FIT	12/2022
Schönerlinde II	2	47	1	За	2	13	12/2002	FIT	12/2022
Schortewitz	15	67	10	2	15	10	11/2004	FIT	12/2024
Seelow	4	67	2	2	5	14	11/2003	FIT	11/2023
Thaerfelde	4	67	3	2	4	11	12/2001	FIT	12/2021
Treue	8	100	8	1	15	21	09/2005	FIT	12/2025
Treue Ost	8	100	8	1	13	20	07/2007	FIT	12/2027
Wriezen	5	67	3	2	12	30	12/2017	FIT	12/2037
Total onshore Germany	228		161		340				

# **Asset overview Germany (Offshore)**

Renewables

Assets Germany											
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry	Support level €/MWh	
Offshore											
Alpha Ventus 1 <sup>2</sup>	30	26	8	Зa	37	33	03/2010	FIT	03/2030	154	
Alpha Ventus 2	30	26	8	За	94	13	08/2009	FIT	08/2029	154	
Amrumbank West <sup>3</sup>	302	100	302	1	1,122	43	10/2015	FIT	10/2035	194	
Arkona <sup>4</sup>	385	50	193	За	307	n/a	12/2018	FIT	12/2039	184	
Total offshore Germany	747		511		1,560						
Total onshore Germany	228		161		340						
Total Germany	975		672		1,900						

1. Total production of the wind farm irrespective of the E.ON share (100% view)

2. Renumeration Alpha Ventus: 154 €/MWh for 12 years + 1.5 year on average (by turbine) due to depth of water & distance from shore, afterwards 35 €/MWh

3. Remuneration Amrumbank: 194 €/MWh for 8 years + 1 year on average (by turbine) due to depth of water & distance from shore, afterwards 39 €/MWh

4. Remuneration Arkona: 184 €/MWh for 8 years, 149 €/MWh for further 2.1 years, then 39 €/MWh for 9.9 years

# **Asset overview UK (Onshore 1)**

	Assets UK										
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry		
Onshore											
Bowbeat (Emly Bank)	16	100	16	1	32	24	10/2002	ROC	03/2027		
Bowbeat (Roughside)	16	100	16	1	32	23	10/2002	ROC	03/2027		
Butterwick Moor (1)	9	100	9	1	21	25	04/2011	ROC	11/2030		
Butterwick Moor (2)	9	100	9	1	19	24	04/2011	ROC	11/2030		
Camster	50	100	50	1	151	27	07/2013	ROC	02/2033		
Deucheran Hill	16	100	16	1	27	29	01/2002	ROC	03/2027		
Great Eppleton (1)	4	100	4	1	10	27	04/2011	ROC	03/2030		
Great Eppleton (2)	4	100	4	1	10	37	04/2011	ROC	03/2030		
Harehill (NFFO)	2	100	2	1	5	27	01/2004	ROC	03/2027		
Harehill (ROC)	3	100	3	1	4	29	01/2004	ROC	03/2027		
Haswell Moor (1)	6	100	6	1	10	29	12/2010	ROC	09/2030		
Haswell Moor (2)	4	100	4	1	16	27	12/2010	ROC	09/2030		
High Volts (NFFO)	2	100	2	1	4	22	01/2004	ROC	03/2027		
High Volts (ROC)	6	100	6	1	9	27	01/2004	ROC	03/2027		

# **Asset overview UK (Onshore 2)**

	Assets UK											
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry			
Holmside (NFFO)	2	100	2	1	5	21	01/2004	ROC	03/2027			
Holmside (ROC)	3	100	3	1	5	19	01/2004	ROC	03/2027			
Out Newton	9	100	9	1	22	29	01/2002	ROC	03/2027			
Ovenden Moor	18	50	9	4	59	38	11/2017	ROC	01/2037			
Rhyd-Y-Groes	7	50	3	4	16	22	01/1992	ROC	03/2027			
Rosehall	25	100	25	1	39	19	02/2013	ROC	08/2032			
Royd Moor	7	50	3	4	8	15	01/1993	ROC	03/2027			
Stags Holt	20	100	20	1	38	22	01/2007	ROC	03/2027			
Tween Bridge	44	100	44	1	99	26	10/2012	ROC	02/2032			
Total onshore UK	281		266		641							

## **Asset overview UK (Offshore)**

Assets UK											
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry	Support level ROC/MWh	
Offshore											
Humber 1	108	100	108	1	408	44	08/2015	ROC	03/2035	2.0	
Humber 2	111	100	111	1	373	39	08/2015	ROC	03/2035	2.0	
London Array LARYW-1	155	30	46	ЗЬ	150	37	05/2013	ROC	11/2032	2.0	
London Array LARYW-2	158	30	48	ЗЬ	147	36	05/2013	ROC	11/2032	2.0	
London Array LARYW-3	158	30	48	ЗЬ	136	38	05/2013	ROC	11/2032	2.0	
London Array LARYW-4	158	30	48	ЗЬ	178	38	05/2013	ROC	11/2032	2.0	
Rampion 1	200	50	100	2	495	29	04/2018	ROC	03/2037	1.8	
Rampion 2	200	50	100	2	460	28	04/2018	ROC	03/2037	1.8	
Robin Rigg East	84	100	84	1	253	35	04/2010	ROC	04/2030	2.0	
Robin Rigg West	90	100	90	1	292	37	07/2009	ROC	07/2029	1.5	
Scroby Sands	60	100	60	1	174	34	12/2004	ROC	03/2027	1.0	
Total offshore UK	1,483		842		3,066						
Total onshore UK	281		266		641						
Total UK	1,764		1,108		3,707						

1. Total production of the wind farm irrespective of the E.ON share (100% view) except for London Array assets (pro rata production)

# **Asset overview Italy**

				Assets Italy					
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry
Onshore									
Alcamo	32	100	32	1	71	26	10/2011	FIP	10/2026
Florinas	20	100	20	1	30	18	04/2004	expired	04/2016
lardino	14	100	14	1	20	18	10/2005	expired	11/2017
Marco A. Severino	32	100	32	1	53	21	10/2007	FIP	10/2019
Marco A. Severino II	12	100	12	1	20	21	10/2007	FIP	10/2019
Montecute	42	100	42	1	71	20	11/2006	FIP	02/2019
Montecute II	2	100	2	1	3	20	11/2006	FIP	02/2019
Piano di Corda I	38	100	38	1	84	26	12/2007	FIP	02/2021
Piano di Corda II	6	100	6	1	13	26	06/2010	FIP	02/2021
Poggi Alti	20	100	20	1	31	18	12/2006	FIP	01/2019
Santa Ninfa (Trapani) (G52 part)	9	100	9	1	18	24	01/2007	FIP	01/2019
Santa Ninfa (Trapani) (G58 part)	24	100	24	1	49	24	01/2007	FIP	01/2019
Serra Pelata I	42	100	42	1	113	31	12/2007	FIP	12/2019
Serra Pelata II	12	100	12	1	32	31	11/2010	FIP	12/2019
Vizzini	24	100	24	1	44	23	12/2006	expired	12/2018
Total Italy	328		328		654				

#### **Asset overview Denmark**

Assets Denmark										
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry	Support level DKK/MWh <sup>2</sup>
Offshore										
Rødsand 2	207	20	41	За	736	41	12/2010	CfD	01/2023 <sup>3</sup>	629
Total Denmark	207		41		736					

<sup>1.</sup> Total production of the wind farm irrespective of the E.ON share (100% view)

<sup>2.</sup> Level of CfD strike price

<sup>3.</sup> Support expiry by 01/2023 or after a cumulative production of 10 TWh has been reached (currently predicted by mid 2022)

## **Asset overview Sweden**

Assets Sweden									
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry
Onshore									
Knäred	20	100	20	1	48	27	05/2012	Green Certificate	04/2027
Lilla Edet	6	100	6	1	17	31	03/2011	Green Certificate	03/2026
Lundåkra 1 & 2	4	100	4	1	8	25	01/2003	expired	12/2014
Lundåkra 3 & 4	5	100	5	1	9	19	01/2008	Green Certificate	11/2023
Nybro	20	90	18	2	52	30	12/2011	Green Certificate	07/2026
Öringe	6	80	5	2	15	28	09/2011	Green Certificate	05/2026
Örja	6	100	6	1	18	34	10/2012	Green Certificate	09/2027
Örken	18	100	18	1	40	27	12/2012	Green Certificate	11/2027
Skabersjö	10	51	5	2	27	31	02/2012	Green Certificate	12/2026
Villköl	21	100	21	1	53	29	02/2013	Green Certificate	11/2027
Vindön	7	100	7	1	13	20	01/1996	expired	01/2011
Total onshore Sweden	123		115		299				
Offshore									
Karehamn	48	100	48	1	180	44	10/2013	Green Certificate	07/2028
Total offshore Sweden	48		48		180				
Total Sweden	171		163		479				

## **Asset overview Poland**

Assets Poland									
	Total capacity MW	E.ON share %	Pro rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry
Onshore									
Barzowice I	21	100	21	1	50	30	09/2011	Green certificate	07/2026
Lebcz I	8	67	5	2	15	21	01/2007	Green certificate	06/2022
Lebcz II	10	67	7	2	14	16	01/2008	Green certificate	09/2023
Wielkopolska	53	100	53	1	122	27	07/2010	Green certificate	03/2025
Wielkopolska 2a	15	100	15	1	29	22	01/2014	Green certificate	10/2029
Wysoka	8	100	8	1	13	20	03/2013	Green certificate	09/2028
Wysoka II	48	100	48	1	85	21	01/2014	Green certificate	09/2029
Total Poland	161		155		329				

## Asset overview US (1)

Assets US											
	Total capacity MW	E.ON share %	Pro Rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry	Support level \$/MWh <sup>2</sup>	PPA
Onshore											
Anacacho	100	100	100	1	329	38	12/2012	REC/PTC	12/2022	24	yes
Bruenning's Breeze	228	100	228	1	686	35	12/2017	REC/PTC	12/2027	24	no <sup>3</sup>
Champion	127	100	127	1	378	34	02/2008	REC	expired		no
Colbeck's Corner	200	100	200	1	885	51	05/2016	REC/PTC	05/2026	24	yes
Forest Creek	124	100	124	1	367	34	03/2007	REC	expired		no
Grand View I	211	50	106	За	944	52	12/2014	REC/PTC	12/2024	24	no
Inadale	197	100	197	1	530	31	09/2009	REC	expired		no
Magic Valley I	203	20	41	За	692	40	10/2012	REC/PTC	09/2022	24	yes
Munnsville	35	100	35	1	58	18	10/2007	REC	expired		yes
Panther Creek - Phase I	143	100	143	1	476	36	09/2008	REC	expired		no
Panther Creek - Phase II	116	100	116	1	371	34	12/2008	REC	expired		no
Panther Creek - Phase III	200	100	200	1	583	31	08/2009	REC	expired		no
Papalote Creek I	180	50	90	За	532	34	09/2009	REC	expired		yes
Papalote Creek II	200	50	100	За	593	34	12/2010	REC	expired		yes

1. Total production of the wind farm irrespective of the E.ON share (100% view)

2. US Remuneration only shows value of PTC

3. Long-term hedged

## Asset overview US (2)

Assets US											
	Total capacity MW	E.ON share %	Pro Rata MW	Accounting treatment	Total production 2018 GWh <sup>1</sup>	Load factor %	COD	Support regime	Support expiry	Support level \$/MWh <sup>2</sup>	PPA
Pioneer Trail	150	100	150	1	444	34	01/2012	REC/PTC	12/2021	24	yes
Pyron	249	100	249	1	735	34	02/2009	REC	expired		no
Radford's Run	306	100	306	1	1,031	39	12/2017	REC/PTC	12/2027	24	no <sup>3</sup>
Roscoe	209	100	209	1	549	31	02/2008	REC	expired		no
Sand Bluff	90	100	90	1	205	27	01/2008	REC	expired		no
Settlers Trail	150	100	150	1	371	28	10/2011	REC/PTC	09/2021	24	no
Stella	201	100	201	1	71	16	12/2018	REC/PTC	12/2028	24	no <sup>3</sup>
Stony Creek	53	50	26	За	154	32	11/2009	REC	expired		yes
Wildcat I	203	20	41	За	625	34	12/2012	REC/PTC	12/2022	24	yes
Total onshore	3,873		3,227		11,610						
PV <sup>4</sup> & ES											
Tech Park (PV)	5	100	5	1	13	n/a	12/2012	ITC	03/2033	n/a	yes
Valencia (PV)	10	100	10	1	25	n/a	07/2013	ITC	03/2033	n/a	yes
Iron Horse (PV + ES)	12	100	12	4	5	n/a	04/2017	ITC	03/2047	n/a	no <sup>3</sup>
Texas Waves (ES)	20	100	20	1	n/a	n/a	01/2018			n/a	no
Total PV & ES	47		47		43						
Total US	3,920		3,274		11,653						

1. Total production of the wind farm irrespective of the E.ON share (100% view)

2. US Remuneration only shows value of PTC

3. Long-term hedged

4. Capacity measurement in AC

## **Regulatory support**

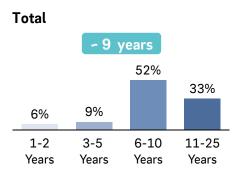
#### E.ON Renewables footprint (2018)<sup>1</sup>

#### Revenues



- **Merchant**: Wholesale power price, Variable certificates
- Quasi-regulated: Feed in tariffs, Production Tax Credits (PTC), Contracts for Difference (CfD), Fixed Power Purchase Agreements (PPAs), Long-term hedges, Fixed certificates

#### Duration of quasi-regulated revenues







1. Based on pro rata view

2. No consideration of short-term hedging effects

## **Current regulatory regimes and frameworks**

### US

#### Onshore

- Support regime:
  - Production Tax Credit (\$24/ MWh)<sup>1</sup>
  - Renewable Energy Certificate (REC) (driven by state-level Renewable Portfolio Standards (RPS))
  - Accelerated depreciation for tax equity investors and developers (MACRS)
- Remuneration:
  - Wholesale market or PPA plus revenue from relevant support scheme

#### Solar

- Support regime:
  - Investment Tax Credit (30% of investment)<sup>2</sup>
  - Renewable Energy Certificate (driven by state-level Renewable Portfolio Standards (RPS);
  - Accelerated Depreciation for tax equity investors and developers (MACRS)
- Remuneration:
  - Wholesale market or PPA, plus revenue from relevant support scheme

#### UK

#### Offshore

- Support regime: Renewable obligation (RO), implemented via issuance of Renewable Obligation Certificates (ROC)
- Remuneration:
  - Wholesale market plus 1.0-2.0 ROC/ MWh based on COD
  - Current buy-out price per ROC: £ 47.22
  - Term: ROCs granted for 20 years
- Note: Transition to CfD auction<sup>3</sup> system from 2017 onwards (with grace period until 2018)

#### Onshore

- Support regime: Renewable obligation (RO), implemented via issuance of Renewable Obligation Certificates (ROC)
- Remuneration:
  - Wholesale market plus 0.9 ROC/ MWh based on COD
  - Current buy-out price per ROC: £ 47.22
  - ROCs granted for a 20 year term
- Note: Since 2017, new support scheme (e.g. CfD) under discussion

1. 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 gradually falling to 80% in 2017, 60% in 2018 and 40% in 2019 until expiring in 2020. Projects have four years to complete construction.

2. Investment Tax Credit (ITC) for Solar amounts to 30% for projects that have begun construction before 2020 and completed construction before Dec. 31, 2023, then gradually decreasing until 10% level for projects completing construction after 2023.

3. At a CfD (Contract for Difference) auction, bidders submit a price/MWh they want to achieve. In case they are successful, they will sell their power on the market, but receive the difference between market price and bid level from the regulator.



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## **Current regulatory regimes and frameworks**

#### Germany

#### Offshore

- Support regime: Feed in tariff (FIT) with direct marketing obligation until 2016. Since 2017 central auction system in form of 20 year Contract for Difference (for projects with COD after 2026). Two transitional auctions in spring 2017 and 2018. Developers with projects in advanced stage & COD in 2021 to 2025 can participate to clear the market.
- Remuneration (EEG 14):
  - Initial tariff: €154/ MWh for 12 years (standard) or €194/ MWh for 8 years ("Stauchungsmodell")
  - Base tariff: €39/ MWh for the remaining lifetime until a total of 20 years of remuneration is achieved
  - Initial tariff extended for deep waters/ distance to shore

#### Onshore

- **Support regime**: Feed in tariff (FIT) with direct marketing obligation until 2017. 20 year CfD auction system (2.8 GW p.a.) since 2017
- Remuneration (EEG 14):
  - Tariff level: €80 85/ MWh
  - Tariff digression with year of COD

#### Italy

#### Onshore

- **Support regime:** Assets with COD until 2013: Feed in premium (FIP) to market price. Auction system applicable since 2013.
- Remuneration:
  - Wholesale market plus premium;
  - Premium for year n: (180- average power price  $_{n-1}$ )\*78%, where average power price is the average national energy price of the previous year published by the Italian Electricity Authority
  - Term: Assets with COD in 2008 or earlier 12 years, assets with COD after 2008 15 years
  - The FIP value is recalculated at the beginning of every year



#### Renewables





## **Current regulatory regimes and frameworks**

#### Sweden

#### **Onshore/Offshore**

- Support regime: Green certificates
- Remuneration:
  - Wholesale market plus green certificates per MWh of production
  - Term of green certificates: 15 years
  - The value of green certificates depends on bilateral offtake agreements

#### Denmark

#### **Denmark Offshore**

- Support regime: Contract for difference (CfD), whereby CfD strike price is derived through auction process
- Remuneration:
  - Wholesale market plus CfD premium to reach CfD strike price



#### Onshore

- **Support regime**: Green certificates until 2016. Transition to auction system in 2016, auctions for different renewable technologies, e.g. wind onshore 1 GW in 2018
- Remuneration:
  - Offtake agreement with DSO until end of 2017 at regulated power price
  - Green certificates
  - Term of green certificates: Full lifetime of the assets
  - The value of green certificates depends on bilateral offtake agreements

#### Renewables

#### Renewables

# Accounting treatment of renewable assets in E.ON financial statements<sup>1</sup>

	Model 1 (full consolidation)	Model 2 (full consolidation)	Model 3a (at equity consolidation)	Model 3b (pro rata consolidation)	Model 4 (At costs consolidation)
E.ON share of project	100%	>50% < 100%	= < 50%	= < 50%	n/a
Capacity view					
Pro rata MW	100%	pro rata	pro rata	pro rata	n/a
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 as part of EBIT	n/a	n/a	pro rata	n/a	pro rata
Minorities	n/a	(100% - E.ON share)	n/a	n/a	n/a
Cash flow statement					n/a
Consideration in operating cash flow	100%	100%	pro rata²	pro rata	pro rata <sup>2</sup>
Consideration in investing cash flow	100%	100%	pro rata	pro rata	pro rata <sup>3</sup>
Consideration in <b>financing cash flow</b> <sup>1</sup>	n/a	(100% - E.ON 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	pro rata

1. Disregarding any financing structures (e.g. Tax equity, project financing etc.)

2. Dividends

3. Capital increase/decrease

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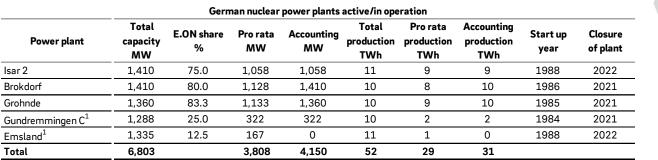
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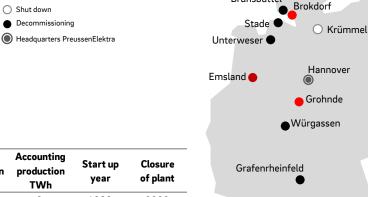


### PreussenElektra

#### What we do

- PreussenElektra covers our nuclear generation activities in Germany
- The German nuclear exit, which was decided in 2011, will result in the closure of our nuclear fleet by 2022 at the latest
- 1,900 people work at PreussenElektra





Brunsbüttel

Active and operated by PreussenElektra
 Active and minority share PreussenElektra

Isar 1/2

Gundremmingen A/B/C

## Financials and nuclear power sales

#### PreussenElektra

Financials		
€m	2017	2018
Revenues	1,585	1,399
Adjusted EBITDA <sup>1</sup>	654	556
Adjusted EBIT <sup>1</sup>	506	399
Investments (cash-effective)	14	15

Nuclear power sales (TWh)	2017	2018
Owned generation (Accounting view)	27.5	31.2
Purchases	9.9	8.1
thereof jointly owned power plants (E.ON has minority interest)	1.3	1.4
thereof third parties (long term contracts)	8.6	6.7
Total power procurement	37.4	39.3
Station use, line loss	-0.2	-0.1
Power sales	37.2	39.2

## **Decommissioning (1)**

Capacity E.ON share Shut down Start of Current Progress of мw % decommissioning year decommissioning phase E.ON as operator Würgassen 670 100 1995 1997 Decommissioning 67 Stade 640 2003 2005 Decommissioning  ${f O}$ 878 100 2011 2017 lsar 1 Decommissioning  $(\bar{\mathbf{T}})$ Grafenrheinfeld 1,275 100 2015 2018 Decommissioning  $(\mathbf{T})$ 1.345 100 2011 2018 Unterweser Decommissioning E.ON as minority shareholder  $(\mathbf{T})$ 771 33 2011 Brunsbüttel 2018 Decommissioning 50  $\square$ Krümmel 1,364 2011 2020 Shut down Reconstruction as 25 Gundremmingen A 237 1980 1983 Technology Center Gundremmingen B 1.284 25 2017 2019 Final shut down  $\bigcirc$ 

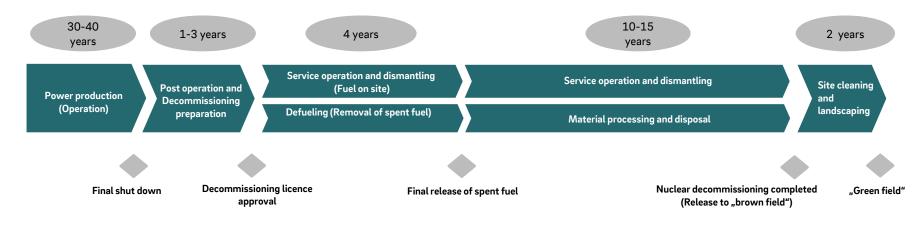
German nuclear power plants shut down

PreussenElektra

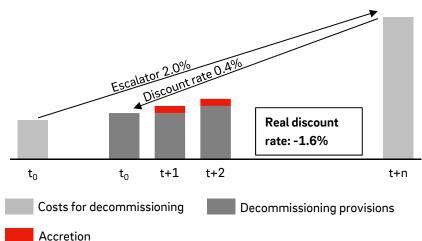
## **Decommissioning (2)**

#### Decommissioning of a nuclear power plant<sup>1</sup>

Shut down phases



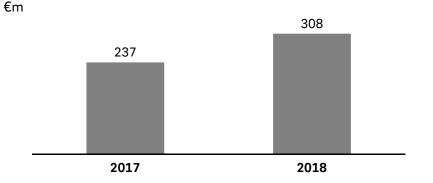
## **Provisions for decommissioning**



Current cost approach<sup>2</sup> used for AROs that apply negative real interest rates

#### Schematic illustration of provision building at E.ON<sup>1</sup>

Provision utilization for German nuclear



2. Actual amount of the obligations as per year-end 2018 excl. effects of discounting and cost increases

<sup>1.</sup> Disregarding any provision utilization in the decommissioning provision

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## Enerjisa Üretim : Financial highlights

**Turkey Generation** 

Enerjisa Üretim (Generation & Trading)



Enerjisa Üretim (Generation & Trading) <sup>1</sup>	2017	2018
Revenues (TRL m)	4,162	5,253
EBITDA (TRL m) <sup>2</sup>	925	1,386
Net Income (TRL m)	-767	17
thereoff divestment related one-off	-287	0
E.ON share of 50% (€m) <sup>3</sup>	-94	1
Acquisition related depreciation charges (run rate)	-18	-18
FX hedges and other <sup>4</sup>	-1	0
Contribution to E.ON Adjusted EBITDA/Net Income (€m)	-113	-17







1. 100% Enerjisa Üretim view

2. Includes one-offs

3. Quarter end FX spot rates applied.

4. 2017 split pro rata (50% ownership each) to Enerjisa Enerji and Enerjisa Üretim.

## Asset overview (1)

Assets Enerjisa Üretim<sup>1</sup> Generation Production Start-up **Remuneration per** Power plant Type Revenue stream capacity (MW) (GWh) MWh year In operation Market prices ; Bandırma-I Gas 931 3,753 2010 Capacity mechanism<sup>2</sup> Market prices ; Bandırma-II Gas 607 3,039 2016 Capacity mechanism<sup>2</sup> Gas 40 0 1997 Kentsa Market prices; Capacity mechanism<sup>2</sup>: Lianite TRL 285 3 Tufanbeyli Coal/Lignite 450 2.631 2016 incentive <sup>3</sup> FIT<sup>4</sup> Menge Hydro 89 127 2012 \$73 \$73 Köprü Hvdro 156 279 FIT 2013 \$73 FIT Kuşakli Hydro 20 29 2013 22 FIT \$73 Dağdelen Hydro 8 2013 Kandil Hvdro 208 320 2013 FIT \$73 FIT \$73 Sarıgüzel Hydro 103 190 2013 FIT \$73 Hacınınoğlu Hydro 142 232 2011

1. All assets are 100% owned by Enerjisa Üretim.

2. Capacity mechanism implemented starting 2018. Budget for allocation & strike price will be set quarterly by state-owned transmission company

3. 7-years PPA starting in 2018 with state-owned wholesaler (TETAS) for 1.5 TWh. TETAS can increase volume by 40%. For 2019, starting price is at 285TL/MWh indexed to inflation & USD/TRL development for 1.8TWh. A corridor between 50\$ and 55\$/MWh is applied.

4. Feed-in-tariff

5. Production included as part of Bandirma-I

## Asset overview (2)

Assets Enerjisa Üretim<sup>1</sup> Generation Production Start-up Remuneration Power plant Type Revenue stream USD/MWh capacity (MW) (GWh) year Çambaşı Hydro 44 2013 FIT \$73 140 Kavşakbendi Hydro 191 FIT \$73 549 2014 245 FIT \$73 Arkun Hydro 626 2014 3 2014 Bandirma 5 Hydro Yamanlı II Hvdro 82 166 2016 FIT \$73 FIT \$73 Doğançay Hydro 62 148 2017 30 78 FIT \$73 Canakkale Wind 2011 FIT Dağpazarı Wind 39 93 2012 \$73 \$ 78 Bares Wind 143 483 2013 FIT FIT \$133 Karabiik Solar 7 11 2017 2 3 FIT \$133 Bandırma Solar 2017 Total in operation 3,602 12,918

1. All assets are 100% owned by Enerjisa

2. Capacity mechanism implemented starting 2018. Budget for allocation & strike price will be set quarterly by state-owned transmission company

3. 7-years PPA starting in 2018 with state-owned wholesaler (TETAS) for 1.5 TWh. TETAS can increase volume by 40%. For 2019, starting price is at 285TL/MWh indexed to inflation & USD/TRL development for 1.8TWh. A corridor between 50\$ and 55\$/MWh is applied.

4. Feed-in-tariff

5. Production included as part of Bandirma-I

## **Regulatory environment**

#### **Renewables (Feed in Tariff)**



#### Local lignite incentive

TRL denominated - inflation indexed (TRL/MWh)



#### Capacity mechanism

Gas & local lignite power plants

#### 1. TETAS can increase volume up to 40%

2. Sources: EPIAS

3. Converted at a TRL/USD rate of 3.63 (average) for 2017 and 4.74 (average) for 2018

#### Incentive framework

- Stable cash flows from USD-denominated feed-in tariffs (for 10 years)
- Annual flexibility to opt for either feed in tariffs or market prices
- Higher feed in tariff if for power plant parts manufactured in Turkey
- Renewables additionally benefit from participation in the balancing market

#### Incentive framework

- Lignite incentive set up in 2016 to foster local energy
- 7-years PPA starting in 2018 with state-owned wholesaler (TETAS) for 1.5 TWh<sup>1</sup>. For 2019, starting price is at 285TL/MWh indexed to inflation & USD/TRL development for 1.8TWh. A corridor between 50\$ and 55\$/MWh is applied..
- Stable cash flows from TRL-denominated incentive with a USD denominated corridor.

#### Incentive framework

- Capacity mechanism starting from 2018.
- Allocation of budget and strike set quarterly. Local sources are prioritized.

#### Average power prices in Turkey<sup>2</sup>

2017: 164 TRL/MWh  $\rightarrow$  45 USD/MWh<sup>3</sup> 2018: 231 TRL/MWh  $\rightarrow$  49 USD/MWh<sup>3</sup>

#### **Turkey Generation**

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## **Relevant at equity participations of E.ON**

Company	Description	E.ON share <sup>1</sup> %	At equity contribution to E.ON result 2018 (€m)	
Energy Networks				
Germany				
Städtische Werke Magdeburg GmbH & Co. KG	Municipal utility (energy, water) in the city of Magdeburg	26.7	13.3	
Energie und Wasser Potsdam GmbH	Municipal utility (energy, water) in the city of Potsdam	35.0	12.7	
Gasag Berliner Gaswerke Aktiengesellschaft	Utility (power, gas, energy services) in the city of Berlin	36.9	10.4	
REWAG Regensburger Energie- und Wasserversorgung	Municipal utility (energy, water) in the city of Regensburg	35.5	8.3	
Stadtwerke Brandenburg an der Havel GmbH & Co. KG	Municipal utility (energy, gas and heat) in the city of Brandenburg an der Havel	36.8	4.8	
CEE&Turkey				
Západoslovenská energetika a.s.	Integrated utility in Slovakia (generation, distribution, retail)	49.0	45.0	
Enerjisa Enerji A.Ş.	Integrated utility in Turkey (distribution and retail)	40.0	52.1	
Customer Solutions				
ŠKO-ENERGO FIN, s.r.o.	Electricity generation company (main customer: Škoda Auto)	42.5	5.7	
Non-core business (PreussenElektra)				
Uranit GmbH <sup>2</sup>	Uranit GmbH is a holding company holding 33% of Urenco Ltd. Urenco Ltd. is an international company active in uranium mining, conversion, enrichment and fabrication.	50.0	49.1	
Enerjisa Üretim	Integrated utility in Turkey (generation)	50.0	-17.2	
Other				
Nord Stream AG	Owner and operator of the Nord Stream gas pipeline from Russia to Europe	15.5	65.0	
Not reflected in Adjusted EBIT/ Net Income				
Uniper SE <sup>3</sup>	Upstream electricity generation company	46.7	0.0	

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## **E.ON Quarterly Financials<sup>1</sup> – P&L**

€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017
Sales	10,480	9,103	19,583	8,354	27,937	10,028	37,965
Adjusted EBITDA <sup>2</sup>	1,517	1,198	2,715	825	3,540	1,415	4,955
Depreciation/amortization recognized in Adjusted EBIT	-479	-469	-948	-475	-1,423	-458	-1,881
Adjusted EBIT <sup>2</sup>	1,038	729	1,767	350	2,117	957	3,074
Economic interest expense (net)	-195	-189	-384	-191	-575	-169	-744
Adjusted EBT <sup>2</sup>	843	540	1,383	159	1,542	788	2,330
Income Taxes on Adjusted EBT	-210	-135	-345	-40	-385	-229	-614
% of Adjusted EBT	25%	25%	25%	25%	25%	29%	26%
Non-controlling interest on results of operations	-108	-49	-157	-35	-192	-97	-289
Adjusted Net Income <sup>2</sup>	525	356	881	84	965	462	1,427
€m	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018
Sales <sup>3</sup>	8,752	6,604	15,356	6,290	21,646	8,607	30,253
Adjusted EBITDA <sup>2</sup>	1,715	1,084	2,799	876	3,675	1,165	4,840
Depreciation/amortization recognized in Adjusted EBIT	-431	-426	-857	-466	-1,323	-528	-1,851
Adjusted EBIT <sup>2</sup>	1,284	658	1,942	410	2,352	637	2,989
Economic interest expense (net)	-177	-153	-330	-170	-500	-174	-674
Adjusted EBT <sup>2</sup>	1,107	505	1,612	240	1,852	463	2,315
Income Taxes on Adjusted EBT	-277	-126	-403	-60	-463	-99	-562
% of Adjusted EBT	25%	25%	25%	25%	25%	21%	24%
Non-controlling interest on results of operations	-103	-54	-157	-24	-181	-67	-248
Adjusted Net Income <sup>2</sup>	727	325	1,052	156	1,208	297	1,505

1. 2017 figures have been restated

2. Adjusted for non-operating effects

3. Restated figures for Q1-Q3

				Sales			
€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017
Energy Networks	4,199	4,428	8,627	4,240	12,867	4,123	16,990
Germany	3,426	3,782	7,208	3,589	10,797	3,402	14,199
Sweden	298	265	563	268	831	241	1,072
CEE & Turkey	475	381	856	383	1,239	480	1,719
Customer Solutions	6,550	4,651	11,201	4,284	15,485	6,091	21,576
Germany	2,155	1,528	3,683	1,439	5,122	1,892	7,014
UK	2,151	1,572	3,723	1,360	5,083	2,122	7,205
Other	2,244	1,551	3,795	1,485	5,280	2,077	7,357
Renewables	376	334	710	420	1,130	474	1,604
Onshore Wind/ PV	188	201	389	302	691	236	927
Offshore Wind/ Other	188	133	321	118	439	238	677
Corporate Functions/ Other	197	195	392	170	562	234	796
Consolidation	-1,206	-1,032	-2,238	-1,099	-3,337	-1,249	-4,586
Non-core business	364	527	891	339	1,230	355	1,585
Other (Divested Operations)							
Total	10,480	9,103	19,583	8,354	27,937	10,028	37,965

				Sales			
€m	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018
Energy Networks	2,376	1,990	4,366	2,048	6,414	2,355	8,769
Germany	1,651	1,428	3,079	1,481	4,560	1,683	6,243
Sweden	293	218	511	218	729	260	989
CEE & Turkey	432	344	776	349	1,125	412	1,537
Customer Solutions	6,745	4,734	11,479	4,328	15,807	6,320	22,127
Germany	2,013	1,542	3,555	1,337	4,892	1,876	6,768
UK	2,391	1,590	3,981	1,451	5,432	2,326	7,758
Other	2,341	1,602	3,943	1,540	5,483	2,118	7,601
Renewables	401	340	741	472	1,213	541	1,754
Onshore Wind/ PV	234	218	452	361	813	335	1,148
Offshore Wind/ Other	167	122	289	111	400	206	606
Corporate Functions/ Other	162	156	318	182	500	144	644
Consolidation	-1,210	-939	-2,149	-1,122	-3,271	-1,169	-4,440
Non-core business	278	323	601	382	983	416	1,399
Other (Divested Operations)			·				
Total	8,752	6,604	15,356	6,290	21,646	8,607	30,253

			_ <u>A</u>	djusted EBITDA <sup>1</sup>			
€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017
Energy Networks	917	652	1,569	652	2,221	799	3,020
Germany	559	332	891	319	1,210	411	1,621
Sweden	173	147	320	147	467	165	632
CEE & Turkey	185	173	358	186	544	223	767
Customer Solutions	395	196	591	-23	568	227	795
Germany	44	34	78	21	99	33	132
UK	184	95	279	-65	214	137	351
Other	167	67	234	21	255	57	312
Renewables	249	137	386	122	508	277	785
Onshore Wind/ PV	113	69	182	27	209	90	299
Offshore Wind/ Other	136	68	204	95	299	187	486
Corporate Functions/ Other	-67	-52	-119	-35	-154	-21	-175
Consolidation	0	-10	-10	3	-7	-4	-11
Non-core business	23	275	298	106	404	137	541
Other (Divested Operations)							
Total	1,517	1,198	2,715	825	3,540	1,415	4,955

	Adjusted EBITDA <sup>1</sup>										
€m	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018				
Energy Networks	877	670	1,547	640	2,187	632	2,819				
Germany	490	358	848	334	1,182	306	1,488				
Sweden	190	141	331	145	476	172	648				
CEE & Turkey	197	171	368	161	529	154	683				
Customer Solutions	463	156	619	-29	590	134	724				
Germany	135	15	150	-2	148	45	193				
UK	169	75	244	-33	211	26	237				
Other	159	66	225	6	231	63	294				
Renewables	247	149	396	138	534	327	861				
Onshore Wind/ PV	97	54	151	40	191	109	300				
Offshore Wind/ Other	150	95	245	98	343	218	561				
Corporate Functions/ Other	-14	-23	-37	3	-34	-47	-81				
Consolidation	-2	2	0	2	2	-24	-22				
Non-core business	144	130	274	122	396	143	539				
Other (Divested Operations)											
Total	1,715	1,084	2,799	876	3,675	1,165	4,840				

	Adjusted EBIT <sup>1</sup>										
€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017				
Energy Networks	678	409	1,087	416	1,503	531	2,034				
Germany	415	186	601	180	781	249	1,030				
Sweden	132	107	239	106	345	129	474				
CEE & Turkey	131	116	247	130	377	153	530				
Customer Solutions	319	121	440	-98	342	137	479				
Germany	38	26	64	12	76	26	102				
UK	160	70	230	-90	140	108	248				
Other	121	25	146	-20	126	3	129				
Renewables	160	45	205	43	248	206	454				
Onshore Wind/ PV	61	16	77	-15	62	55	117				
Offshore Wind/ Other	99	29	128	58	186	151	337				
Corporate Functions/ Other	-97	-67	-164	-68	-232	-43	-275				
Consolidation	2	-8	-6	-2	-8	-3	-11				
Non-core business	-24	229	205	59	264	129	393				
Other (Divested Operations)											
Total	1,038	729	1,767	350	2,117	957	3,074				

	Adjusted EBIT <sup>1</sup>										
€m	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018				
Energy Networks	642	428	1,070	402	1,472	372	1,844				
Germany	353	212	565	190	755	140	895				
Sweden	151	103	254	109	363	135	498				
CEE & Turkey	138	113	251	103	354	97	451				
Customer Solutions	392	85	477	-117	360	53	413				
Germany	128	7	135	-11	124	36	160				
UK	148	54	202	-59	143	-1	142				
Other	116	24	140	-47	93	18	111				
Renewables	171	65	236	47	283	238	521				
Onshore Wind/ PV	58	15	73	1	74	68	142				
Offshore Wind/ Other	113	50	163	46	209	170	379				
Corporate Functions/ Other	-28	-38	-66	-14	-80	-73	-153				
Consolidation	-2	3	1	2	3	-21	-18				
Non-core business	109	115	224	90	314	68	382				
Other (Divested Operations)											
Total	1,284	658	1,942	410	2,352	637	2,989				

				ОСҒЫТ			
€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017
Energy Networks	1,014	715	1,729	1,237	2,966	708	3,674
Germany	720	385	1,105	994	2,099	330	2,429
Sweden	142	163	305	138	443	197	640
CEE & Turkey	152	167	319	105	424	181	605
Customer Solutions	-167	593	426	295	721	201	922
Germany	-178	31	-147	335	188	96	284
UK	9	273	282	-57	225	176	401
Other	2	289	291	17	308	-71	237
Renewables	187	50	237	303	540	61	601
Corporate Functions/ Other	-217	12	-205	-38	-243	162	-81
Consolidation	3	-3	0	-6	-6	12	6
Non-core business	207	2,866	3,073	-10,142	-7,069	-288	-7,357
Other (Divested Operations)							
Total	1,027	4,233	5,260	-8,351	-3,091	856	-2,235

				ОСҒЫТ			
€m	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018
Energy Networks	454	951	1,405	1,025	2,430	552	2,982
Germany	23	557	580	792	1,372	187	1,559
Sweden	267	154	421	114	535	236	771
CEE & Turkey	164	240	404	119	523	129	652
Customer Solutions	-348	487	139	475	614	-38	576
Germany	-169	57	-112	348	236	37	273
UK	-103	123	20	105	125	-33	92
Other	-76	307	231	22	253	-42	211
Renewables	228	159	387	122	509	148	657
Corporate Functions/ Other	-90	109	19	-198	-179	-149	-328
Consolidation	3	-14	-11	9	-2	3	1
Non-core business	112	17	129	-7	122	77	199
Other (Divested Operations)							
Total	359	1,709	2,068	1,426	3,494	593	4,087

	Investments (cash-effective)										
€m	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017				
Energy Networks	260	285	545	319	864	555	1,419				
Germany	98	133	231	165	396	307	703				
Sweden	60	87	147	81	228	117	345				
CEE & Turkey	102	65	167	73	240	131	371				
Customer Solutions	64	145	209	141	350	246	596				
Germany	3	6	9	6	15	10	25				
UK	46	51	97	45	142	69	211				
Other	15	88	103	90	193	167	360				
Renewables	251	277	528	433	961	264	1,225				
Corporate Functions/ Other	8	19	27	15	42	11	53				
Consolidation	0	-2	-2	-3	-5	6	1				
Non-core business	5	2	7	3	10	4	14				
Other (Divested Operations)											
Total	588	726	1,314	908	2,222	1,086	3,308				

€m	Investments (cash-effective)								
	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018		
Energy Networks	271	309	580	374	954	643	1,597		
Germany	108	123	231	217	448	354	802		
Sweden	55	108	163	60	223	118	341		
CEE & Turkey	108	78	186	97	283	171	454		
Customer Solutions	74	135	209	198	407	230	637		
Germany	4	6	10	0	10	25	35		
UK	40	52	92	65	157	50	207		
Other	30	77	107	133	240	155	395		
Renewables	180	269	449	249	698	339	1,037		
Corporate Functions/ Other	9	7	16	40	56	30	86		
Consolidation	1	-4	-3	3	0	-3	-3		
Non-core business	161	2	163	1	164	5	169		
Other (Divested Operations)									
Total	696	718	1,414	865	2,279	1,244	3,523		

€m	At equity contribution to Adjusted EBITDA/EBIT							
	Q1 2017	Q2 2017	H1 2017	Q3 2017	9M 2017	Q4 2017	FY 2017	
Energy Networks	38	51	89	57	146	85	231	
Germany	16	25	41	19	60	14	74	
Sweden	0	0	0	0	0	0	0	
CEE & Turkey	22	26	48	38	86	71	157	
Customer Solutions	3	4	7	4	11	3	14	
Germany	0	0	0	0	0	0	0	
UK	0	0	0	0	0	0	0	
Other	3	4	7	4	11	3	14	
Renewables	11	5	16	2	18	6	24	
Corporate Functions/ Other	16	15	31	16	47	20	67	
Consolidation	0	0	0	-1	-1	0	-1	
Non-core business	-25	-2	-27	-22	-49	-9	-58	
Other (Divested Operations)								
Total	43	73	116	56	172	105	277	

€m	At equity contribution to Adjusted EBITDA/EBIT <sup>1</sup>								
	Q1 2018	Q2 2018	H1 2018	Q3 2018	9M 2018	Q4 2018	FY 2018		
Energy Networks	46	55	101	38	139	27	166		
Germany	16	17	33	18	51	18	69		
Sweden	0	0	0	0	0	0	0		
CEE & Turkey	30	38	68	20	88	9	97		
Customer Solutions	1	3	4	3	7	3	10		
Germany	0	0	0	0	0	0	0		
UK	0	0	0	0	0	0	0		
Other	1	3	4	3	7	3	10		
Renewables	8	9	17	6	23	21	44		
Corporate Functions/ Other	14	17	31	17	48	17	65		
Consolidation	1	0	1	0	1	-2	-1		
Non-core business	10	-1	9	-7	2	34	36		
Other (Divested Operations)		0							
Total	80	83	163	57	220	100	320		

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