



# CEZ GROUP: THE LEADER IN POWER MARKETS OF CENTRAL AND SOUTHEASTERN EUROPE

Investment story, November 2018

# AGENDA



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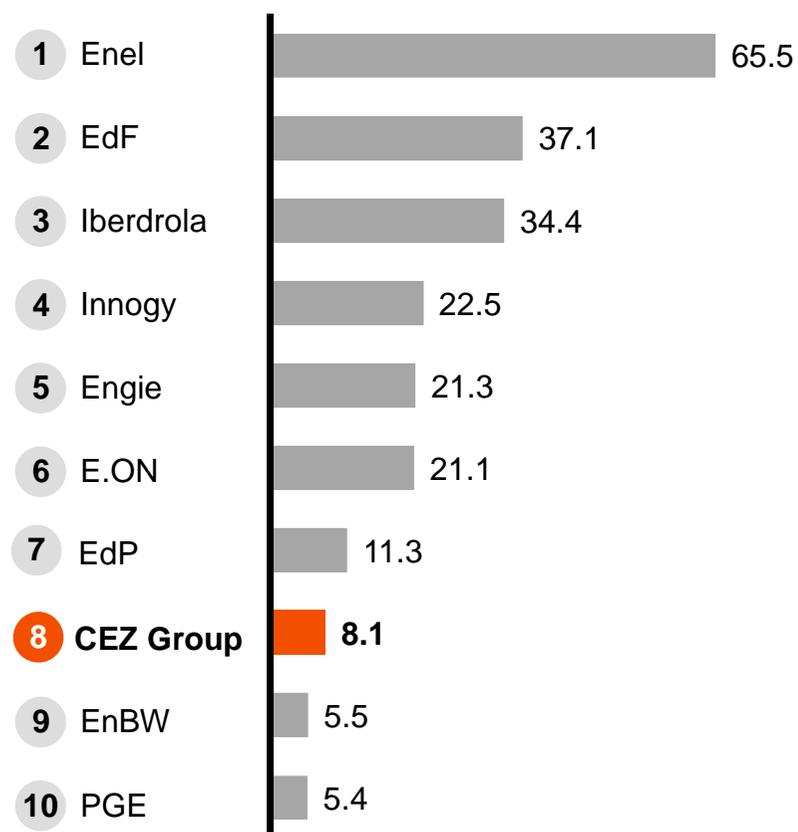
▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
▪ Transformation	44
▪ EU ETS, derogation scheme in the CR	46
▪ Environmental, social and governance	48
▪ Regulation of distribution	52
▪ Renewables support schemes	56
▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# CEZ GROUP RANKS AMONG THE TOP 10 LARGEST UTILITY COMPANIES IN EUROPE



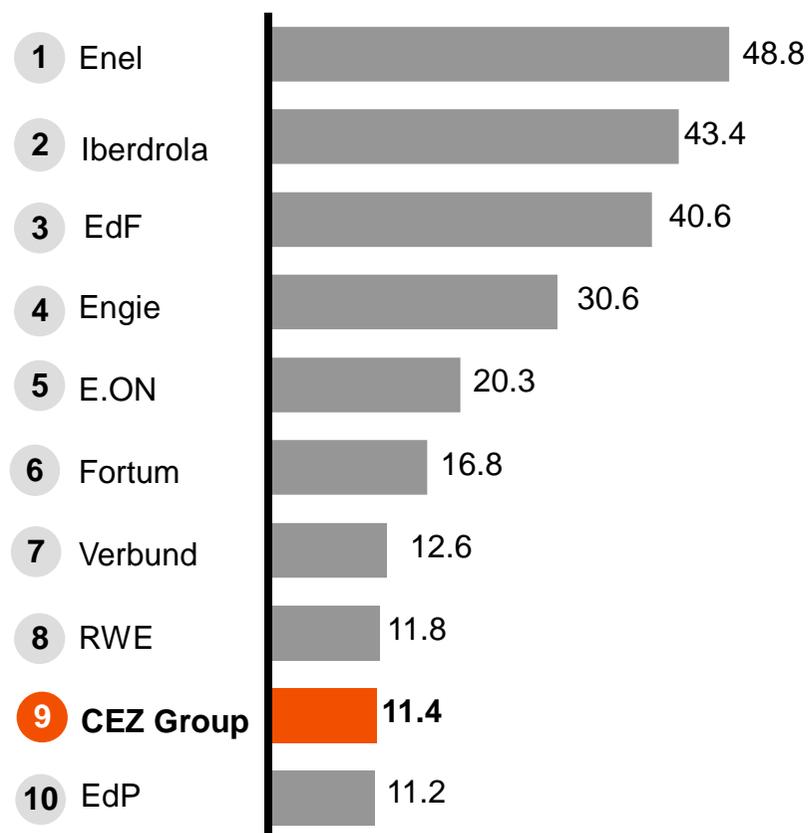
## Top 10 European power utilities

Number of customers in 2017, in millions

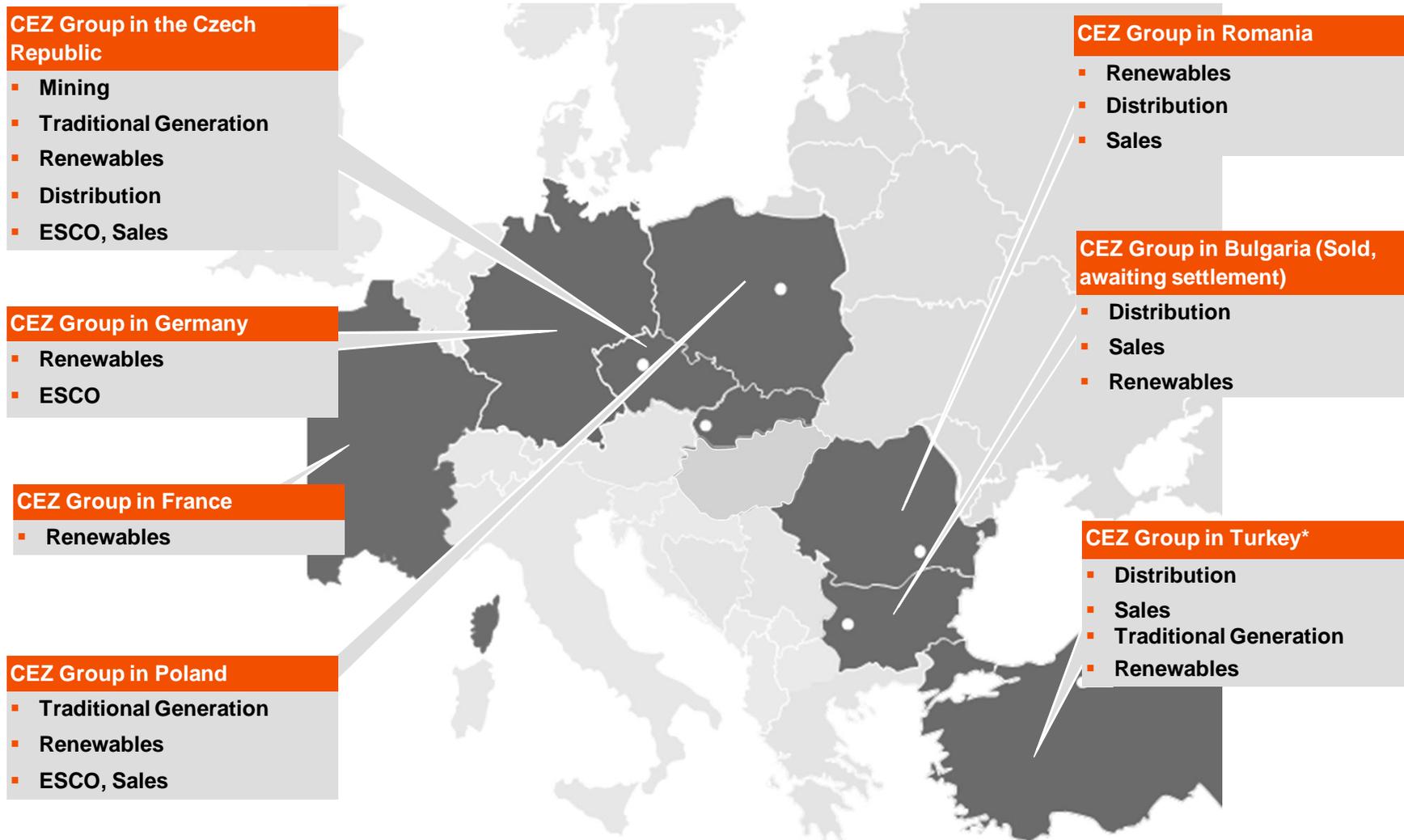


## Top 10 European power utilities

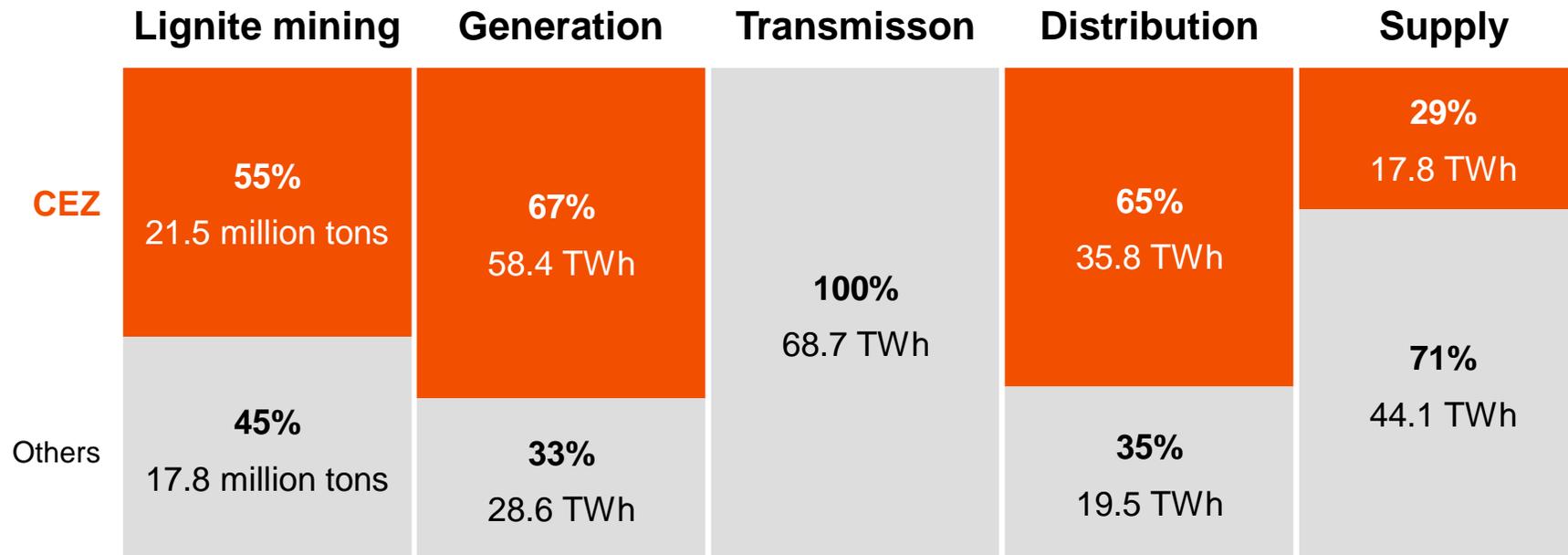
Market capitalization in EUR bn, as of November 26, 2018



# CEZ GROUP IS AN INTERNATIONAL UTILITY WITH A STRONG POSITION IN CEE AND GROWING PRESENCE IN WESTERN EUROPE



# CZECH REPUBLIC IS THE MOST IMPORTANT MARKET FOR CEZ GROUP, IT IS VERTICALLY INTEGRATED THERE



- CEZ fully owns the largest Czech mining company (SD) covering 71% of CEZ's Lignite needs
- Remaining 3 coal mining companies are privately owned

- Other competitors are individual IPPs

- The Czech transmission grid is owned and operated by CEPS, 100% owned by the Czech state



- Other competitors – E.ON, PRE (58% held by EnBW), Bohemia Energy, Innogy, Centropol Energy

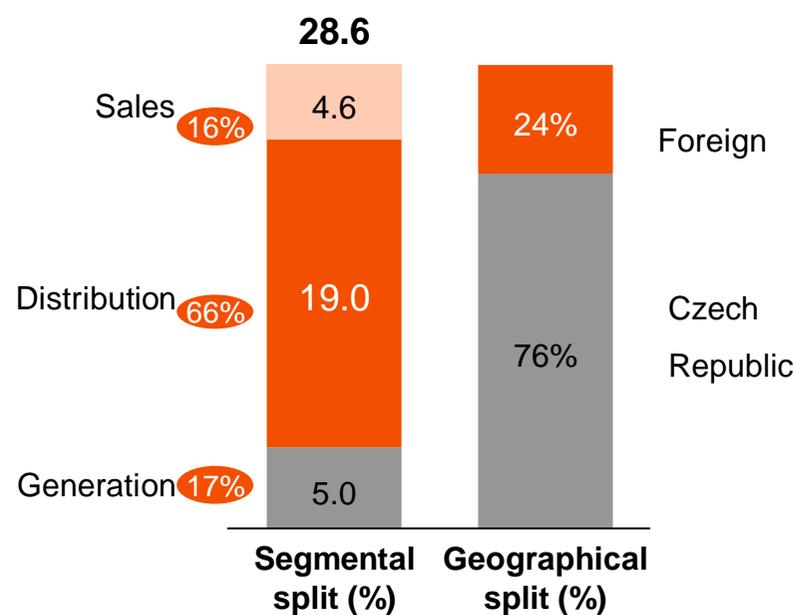
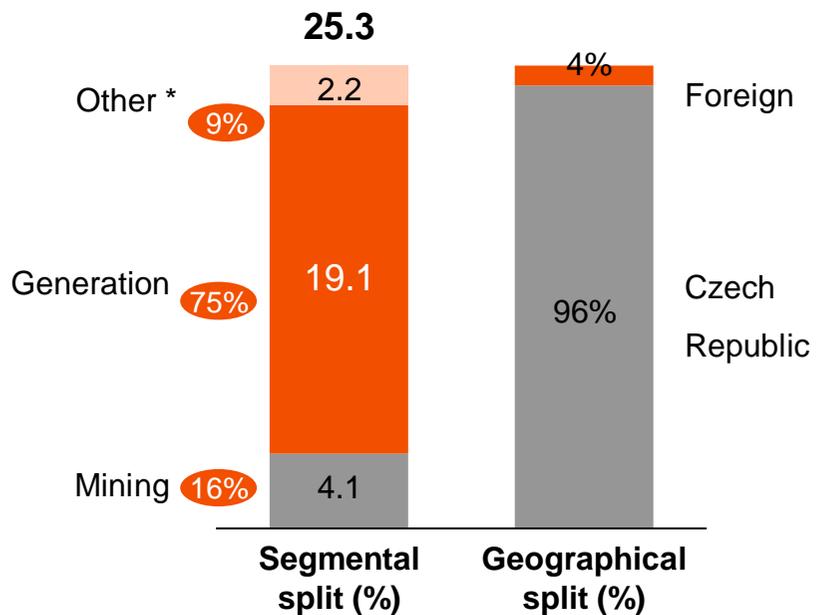
# SEGMENTAL AND GEOGRAPHICAL CONTRIBUTIONS TO EBITDA IN 2017



**2017 EBITDA CZK 53.9bn**

**~47%** Traditional Generation  
2017 EBITDA

**53%** Regulated and New Energy  
2017 EBITDA



- OPERATIONS TEAM**
- The most effective use of our traditional assets
  - Proactively adjusting to the new energy environment
  - Generating sufficient cash flows to develop new activities and pay dividends to our shareholders

- DEVELOPMENT TEAM**
- Ensuring future growth for CEZ based on ESCO activities, decentralized energy, distribution and renewables with focus on end customers
  - Acquisitions and organic growth in stable countries

# KEY BUSINESS DRIVERS OF CEZ GROUP



## Traditional Generation

- **Benefits from growing power prices.....**
  - Electricity price approx. 40% upside\* from the beginning of the year 2018
- ..... as it is positively geared toward growing price of CO2 allowances
  - CEZ emission intensity 0.44 t/MWh is well below 0.7 t/MWh intensity of marginal coal plant
- **Stable CAPEX**
  - Upgrade of lignite fleet completed
  - Current Capex mostly maintenance related

## Regulated and New Energy

- **Benefits from RAB growth**
  - 15% increase by 2020 in Czech distribution
- **Additions of renewables capacity**
  - Pipeline of 102 MW to be operational by 2022
  - Acquisition of additional development projects in WE are in focus
- **Expansion of energy services offering („ESCO“)**
  - Expected 2018 revenues growth over 100% through organic growth and acquisitions

# CEZ GROUP'S STRATEGY AIMS AT MAXIMISING CASH FLOW FROM ITS TRADITIONAL BUSINESS AND INCREASING PRESENCE IN RENEWABLES, ESCO AND DISTRIBUTED ENERGY



## THREE PILLARS OF CEZ GROUP'S STRATEGY

I

**Be among the best in the operation of conventional electricity generation**

and proactively respond to the challenges of the 21st century

Strategy execution split between Operations and Development Teams (including setting of Quantitative goals until 2020)

### **Operations Team – additional CZK 3 bn EBITDA by 2020\***

- Cost reductions and efficiency increase in support services
- Power Generation and Mining optimization
- Strengthening position in the Heat market

II

**Offer a wide range of products and services to customers, which address their energy needs**

### **Development Team - additional CZK 6 bn EBITDA by 2020\***

- Acquisitions and Development in Renewable Generation, ESCO and distribution in Western and Central Europe
- Acquisition potential up to CEZ Group's leverage of 3x Net Debt / EBITDA
- Optimization of Distribution operations and Sales to retail
- Venture-type investments in Energy related areas in Europe

III

**Strengthen and consolidate our position in the region of Central and Western Europe, especially in Renewables**

# CEZ IS COMMITTED TO GENERATE CARBON NEUTRAL POWER BY 2050, WITH MORE THAN 50% REDUCTION IN INSTALLED COAL CAPACITY BY 2025



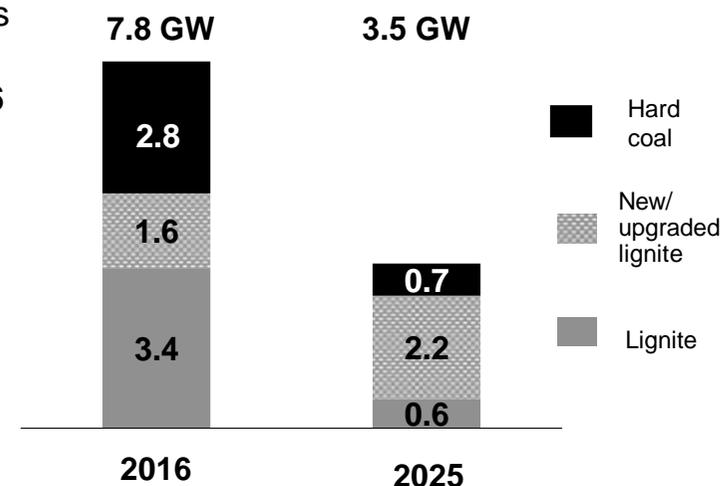
## Coal fired power plants will be gradually closed

- Coal fired power plants currently represent 46% of both capacity and generation volume in 2017 and their revenues are estimated at 10% of total\*
- Coal fired capacity will more than half from 7.8 GW in 2016 to 3.5 GW by 2025

## CEZ is expanding its footprint in renewables, not planning any new coal fired power plants

- CEZ's strategy focuses on power generation capacity growth in renewables expanding its currently running 1700 MW renewable generation capacity (half of which built in the last decade)

## Expected development of installed capacity in coal (GW)



## Coal extracted is mainly used in own power plants

- CEZ Group produced 21.5 mil tones of coal, out of which only 23% is sold externally
- Share of coal mining and related activities (except power generation) on CEZ group's revenues is 2% only

## CEZ Group has reduced CO2 emissions by 40% since 2007

- In 2017 CEZ generated more than half of its electricity at zero-emission facilities
- CEZ Group made a commitment to generate carbon neutral electricity before 2050**

# AGENDA



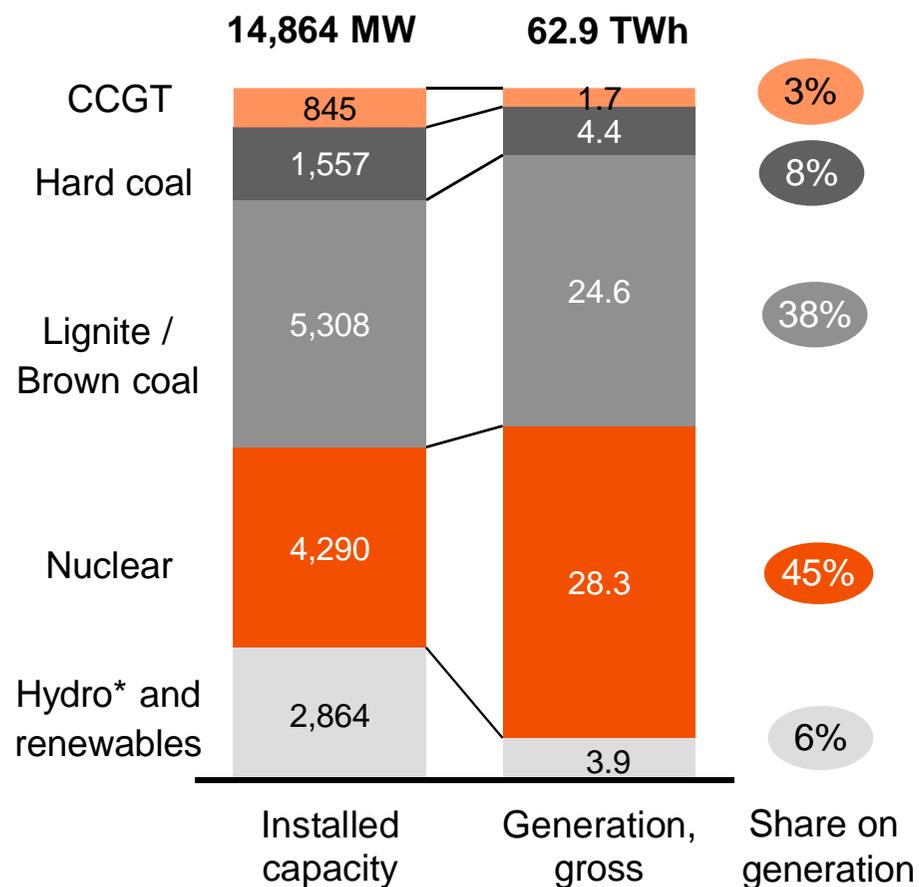
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▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
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▪ Renewables support schemes	56
▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# CEZ GROUP OPERATES LOW COST GENERATION FLEET



## Installed capacity and generation (2017)

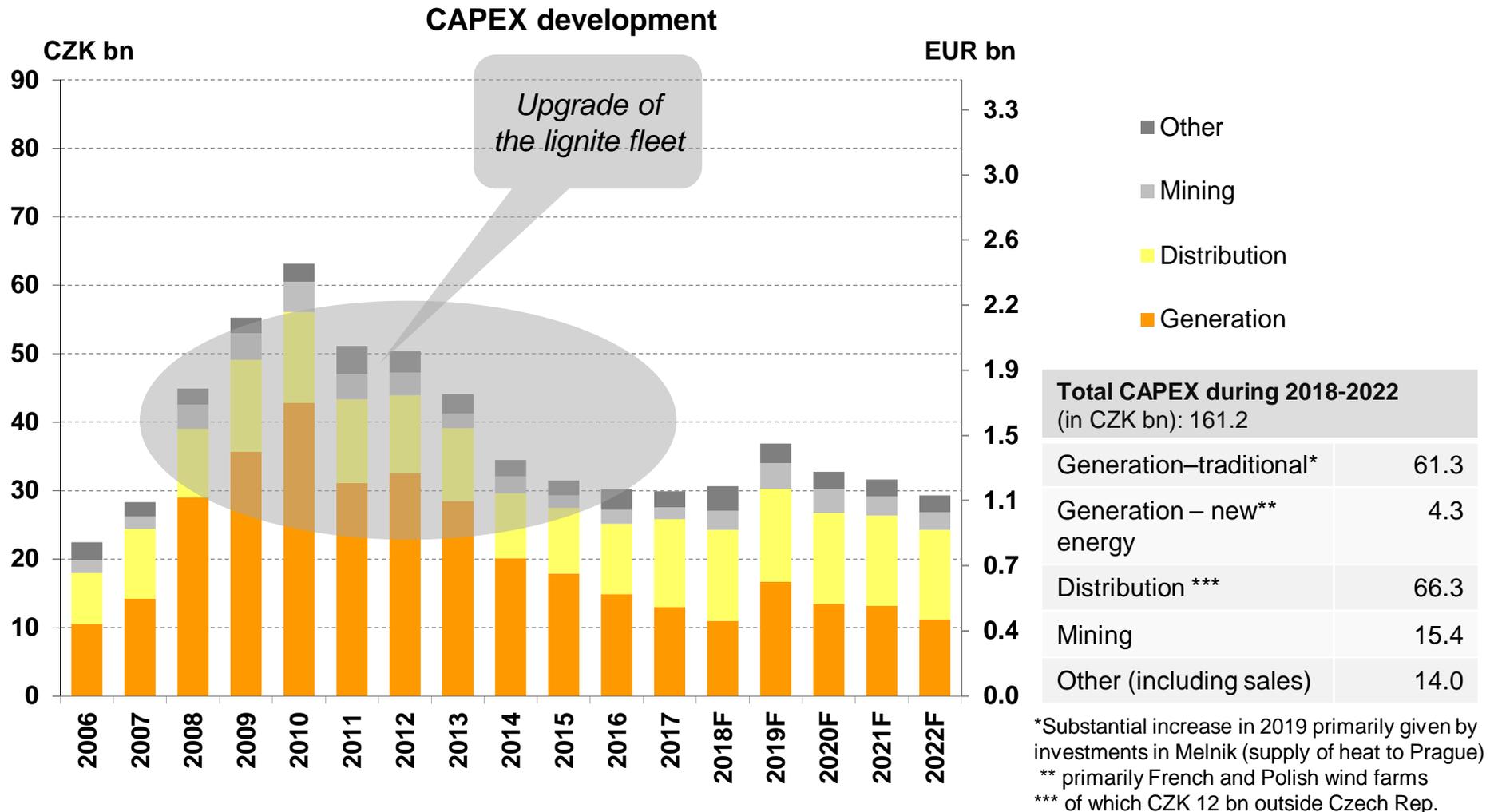


- **Coal power plants are using mostly lignite from CEZ's own mine** (71% of lignite needs sourced internally, remaining volume through long-term supply contracts)
- **Nuclear plants have very low operational costs**

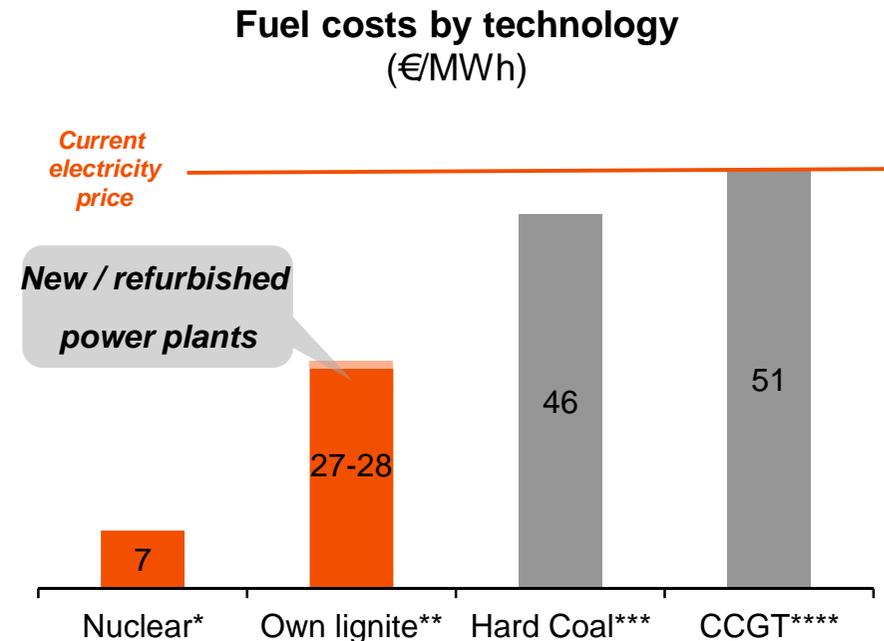
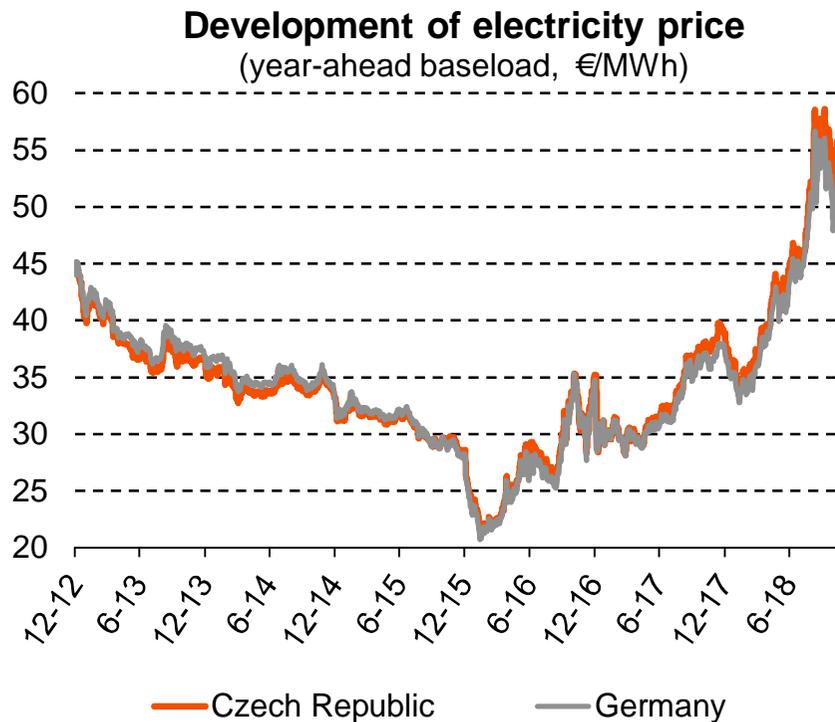


**CEZ has a long-term competitive advantage of low and relatively stable generation costs**

# CEZ GROUP COMPLETED UPGRADE OF ITS LIGNITE FLEET, GOING FORWARD MAINTENANCE CAPEX ONLY



# LOW COST AND UPGRADED GENERATION PORTFOLIO IS A GREAT ADVANTAGE IN THE CURRENT PRICE ENVIRONMENT



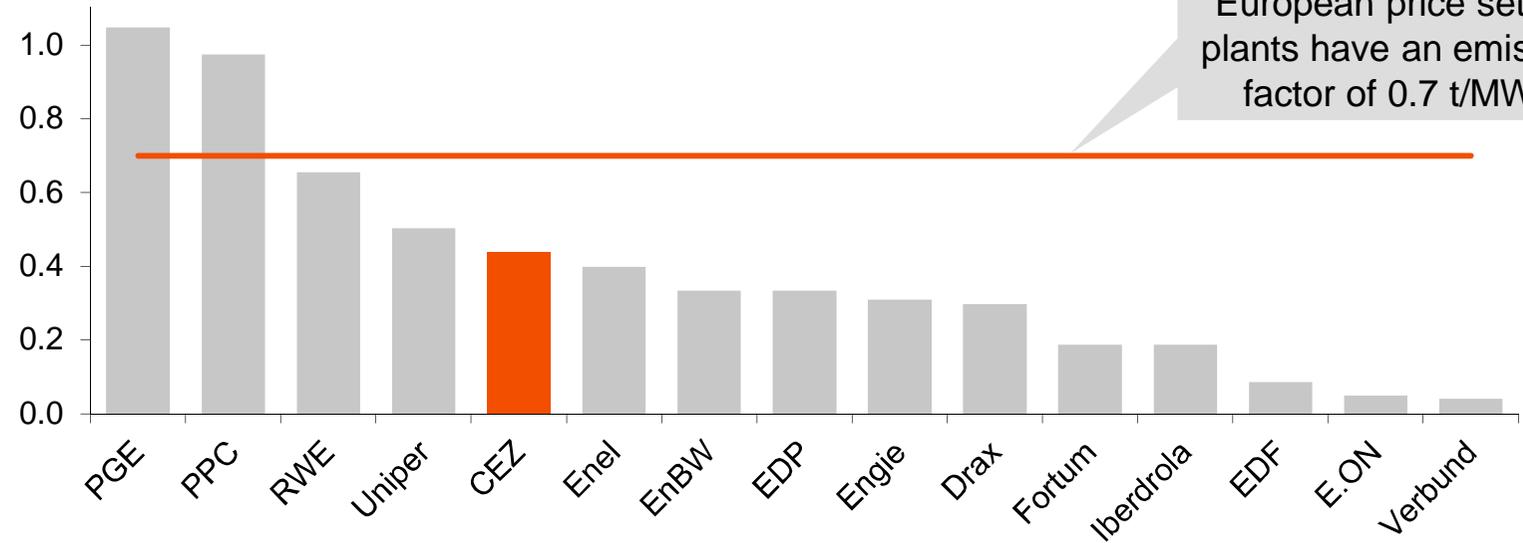
## Drivers of electricity price

- **hard coal prices** being mainly driven by levels of Chinese coal imports and shale gas discoveries in the US
- **carbon prices rising** ahead of implementation of MSR next year
- **growing** capacity of subsidized **renewables**
- **stagnating** electricity **demand**

# CEZ GROUP'S CO<sub>2</sub> INTENSITY IS BELOW INTENSITY OF A EUROPEAN PRICE SETTING PLANT



**Carbon intensity of selected European utilities**  
(2017, t/MWh)

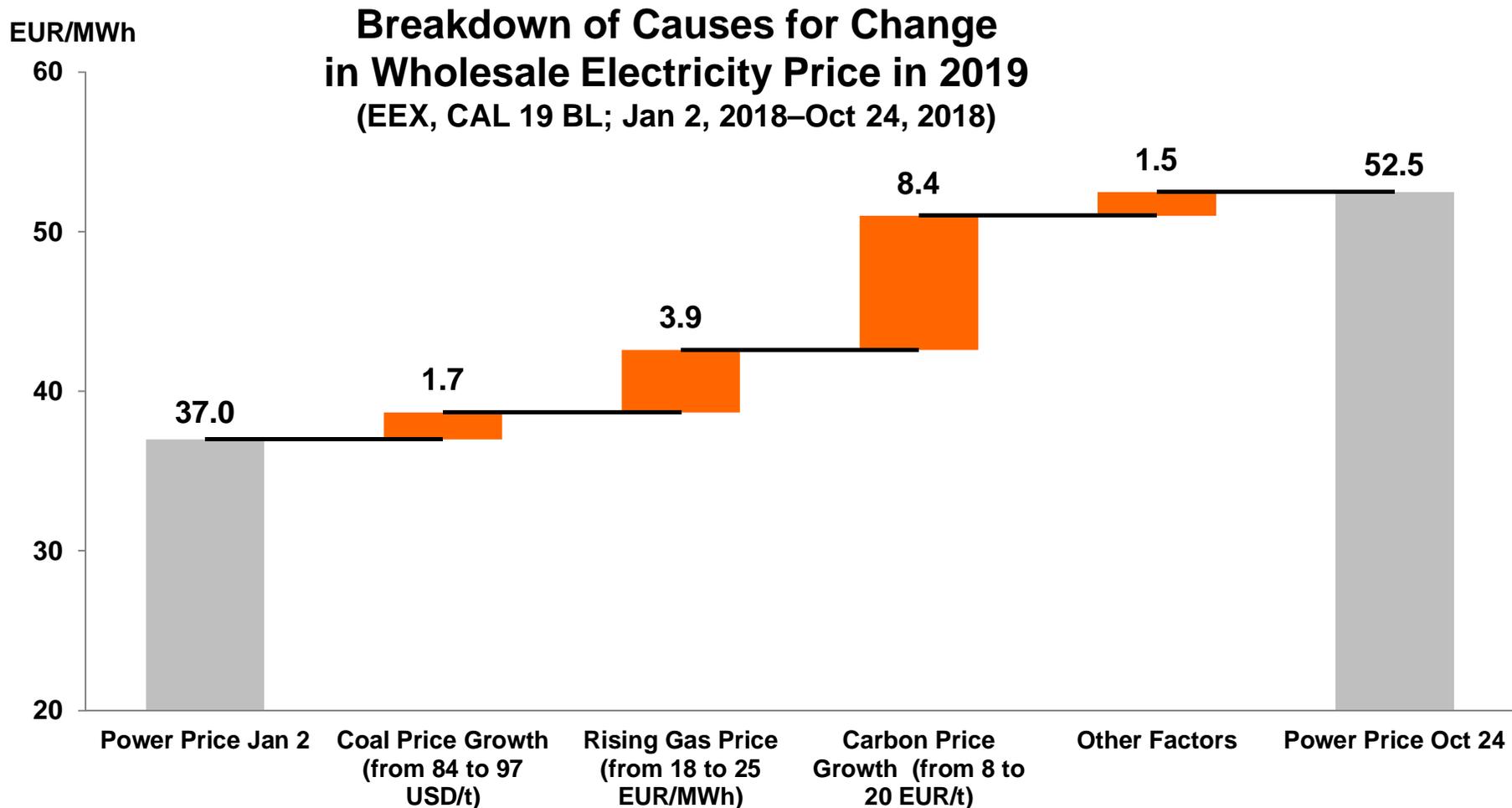


Marginal Central European price setting plants have an emission factor of 0.7 t/MWh



**Increase in CO<sub>2</sub> price has a positive impact on CEZ profitability\***

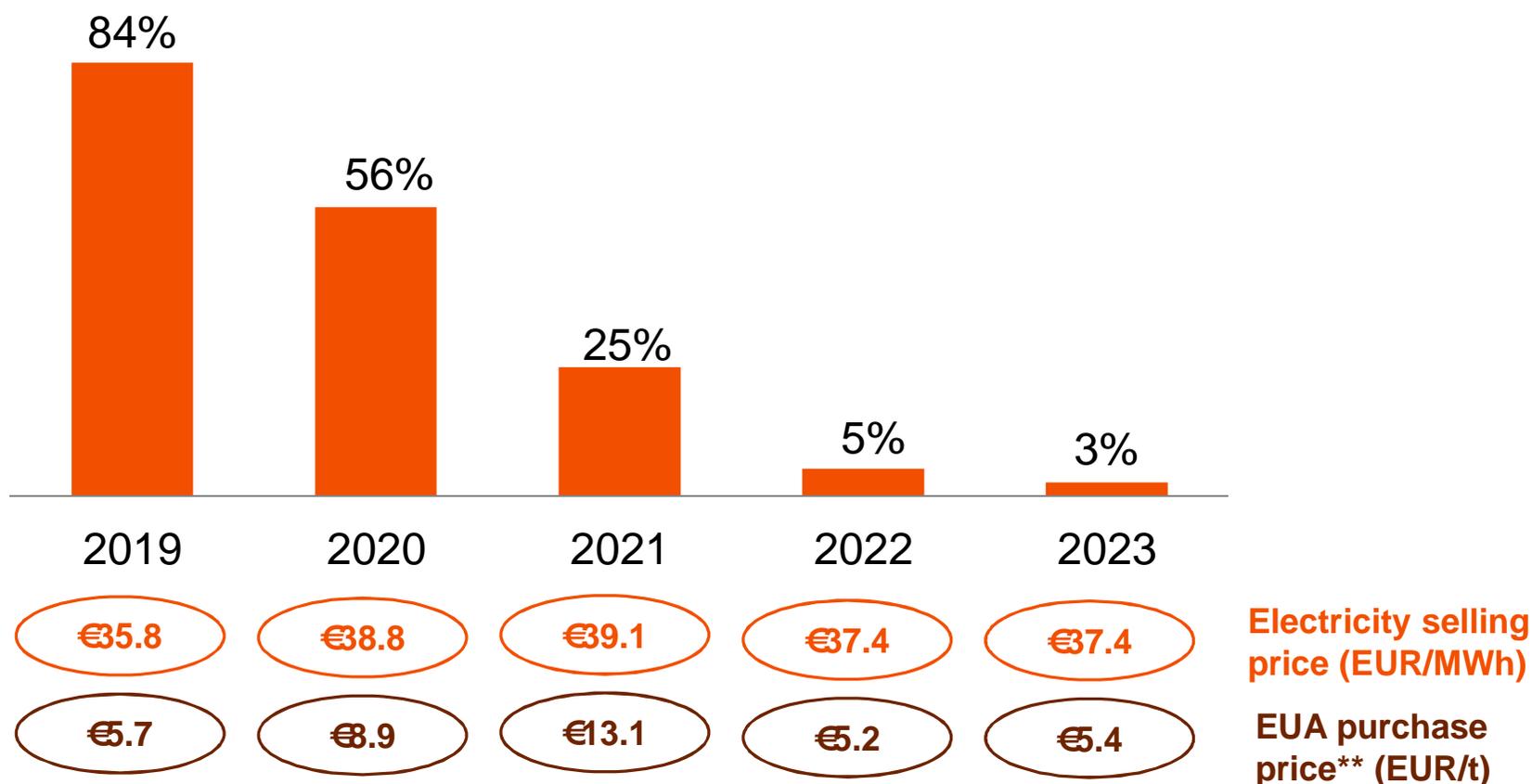
# ELECTRICITY PRICES HAVE INCREASED SINCE THE START OF THE YEAR PRIMARILY DUE TO THE RISING PRICE OF CO<sub>2</sub> ALLOWANCES



# ČEZ CONTINUES HEDGING ITS GENERATION REVENUES IN THE MEDIUM TERM IN LINE WITH STANDARD POLICY



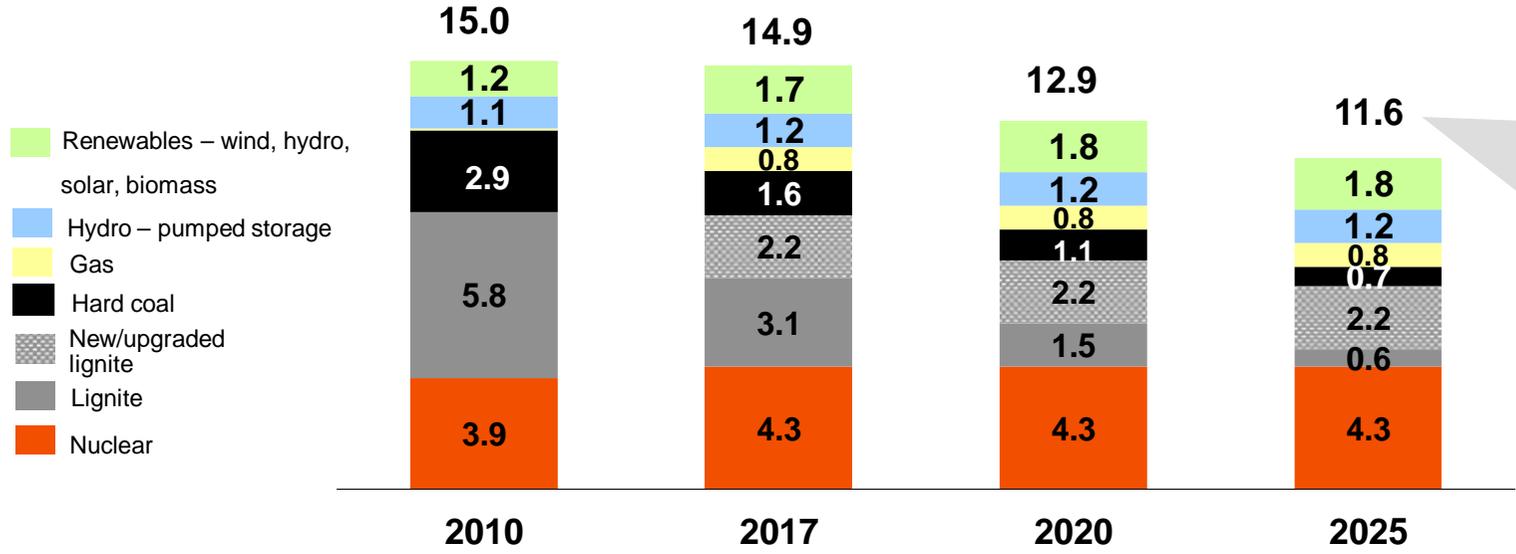
**Share of Hedged Production of ČEZ\* Facilities as of Oct 31, 2018**  
(100% of deliveries in 2019–2022 corresponds to 51–55 TWh)



# CEZ GROUP'S CO2 EMISSIONS INTENSITY TO FURTHER DECLINE AS A RESULT OF CLOSURES OF OLD LOW-PROFIT COAL UNITS



**Expected development of installed capacity (GW)\***



Further development of renewables will (partly) offset the decline in the installed capacity and will further decrease CO2 intensity.

**Emission intensity**  
(t CO<sub>2</sub>/MWh generated)



- CO2 emission intensity to decrease approximately by 30%.
- Upgraded portfolio contains highly efficient Tušimice (39%), Prunéřov (40%) and Ledvice (42.5%) power plants. Expected operating life is 40 years for Ledvice and 25 years for both Tušimice and Prunéřov.
- Closures of old lignite and hard coal units not supplied by our own coal, i.e. units with low profit will result in decrease of the total installed capacity.
- Capacity of nuclear increased by 0.5 GW in 2009-13 enabling additional 3.8 TWh of carbon free production.

# OPERATIONS TEAM

## STRATEGIC AMBITIONS FOR 2020



### Additional CZK 3 bn EBITDA by 2020\*

70%

Executed

30%

To execute

### Already implemented / Identified:

- Renewed lignite fleet
- Licenses of all 4 units of Dukovany nuclear power plant extended for indefinite period
- Increased nuclear output by 18% compared to year 2016
- Cost reduction and optimization in mining and power generation (e.g. new power line directly from Tušimice power plant supplying electricity to adjacent Mines)
- Modernization of excavator at Bílina Mine
- Cost reduction and efficiency increase in support services
- Disposal of non-core assets

### Areas of further focus:

- Comply with conditions in operating licenses for all Dukovany NPP units
- Continuously fulfill operational safety enhancement programs at both nuclear power plants
- Increasing nuclear output to levels before welding issues discovery (30+ TWh\*\*; +25% compared to 2016)
- Full operational availability of new Ledvice power plant (660MW)
- Further optimization of generation fleet performance and Mine-to-Plant interface and operational efficiency of maintenance and Design to Value approach to all CAPEX
- General effectivity of support and central services
- Cooperation with government in preparation of new nuclear project (within dedicated SPVs)
- Minimize expenses associated with continued mining beyond environmental limits

# AGENDA



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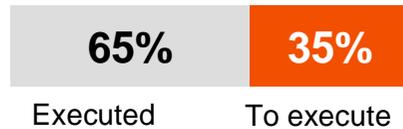
▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
▪ Transformation	44
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▪ Environmental, social and governance	48
▪ Regulation of distribution	52
▪ Renewables support schemes	56
▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# DEVELOPMENT TEAM

## STRATEGIC AMBITIONS FOR 2020



**Additional CZK 6 bn EBITDA by 2020\***



**Already implemented / Identified:**

### **DISTRIBUTION**

- Prepared conditions for distribution CAPEX projects to make the distribution grid ready for the decentralized generation - Increase of CAPEX in Czech Distribution by 36%\*\*
- Distribution redesign project finalized

### **ESCO**

- Germany – acquired ESCO leading company Elevion with annual revenues CZK 8bn and Kofler Group with annual revenues CZK 1bn
- Czech Republic – portfolio of 14 ESCO companies with total annual revenues of CZK 4.5bn
- Poland – acquired OEM Energy and Metrolog with annual revenues CZK 0.6bn

### **RENEWABLES**

- Acquisition of running on-shore wind capacity 134 MW (GER) and acquisition of on-shore wind farm development pipeline with secured PPA 102 MW (FRA)

**Areas of further focus:**

### **DISTRIBUTION**

- Operational efficiency of the Distribution segment in the Czech Republic and abroad
- Implementation of CAPEX projects in the Czech Republic

### **ESCO**

- Further growth in ESCO and Local (site specific) Distribution Companies in the Czech Republic, Germany, Netherlands, Poland, Romania, Bulgaria

### **RENEWABLES**

- Renewables in Germany, France and Poland\*\*\*
- integrated player in renewables - development, operation, maintenance and direct marketing of renewables

### **OTHER**

- Further investments by CEZ's venture fund – Inven
- Maximizing CF and optimizing capital and ownership structure, including divestment of selected foreign assets

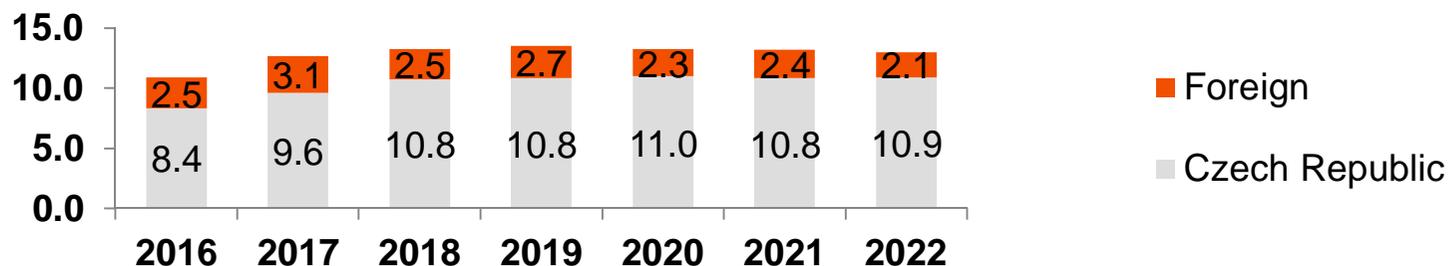
# IN 2017 CZECH DISTRIBUTION MADE UP FOR 56% OF DEVELOPMENT TEAM EBITDA, TRANSPARENT CZECH REGULATION INCENTIVISES HIGHER INVESTMENTS



## Overview of 2018 regulation parameters and 2017 EBITDA contribution

	Czech Republic 2018	Romania 2018	Bulgaria 2018 (SPA signed)
RAB (local currency m)	97,134	2,328	588
RAB (€ m)	3,803	506	300
WACC pre-tax	7.951% (nominal)	7.7% (real)	6.67% (nominal)
Regulatory period	2016 – 2020	2014 - 2018	2018 - 2021
2017 EBITDA (CZK bn)	16.0	1.7	1.3

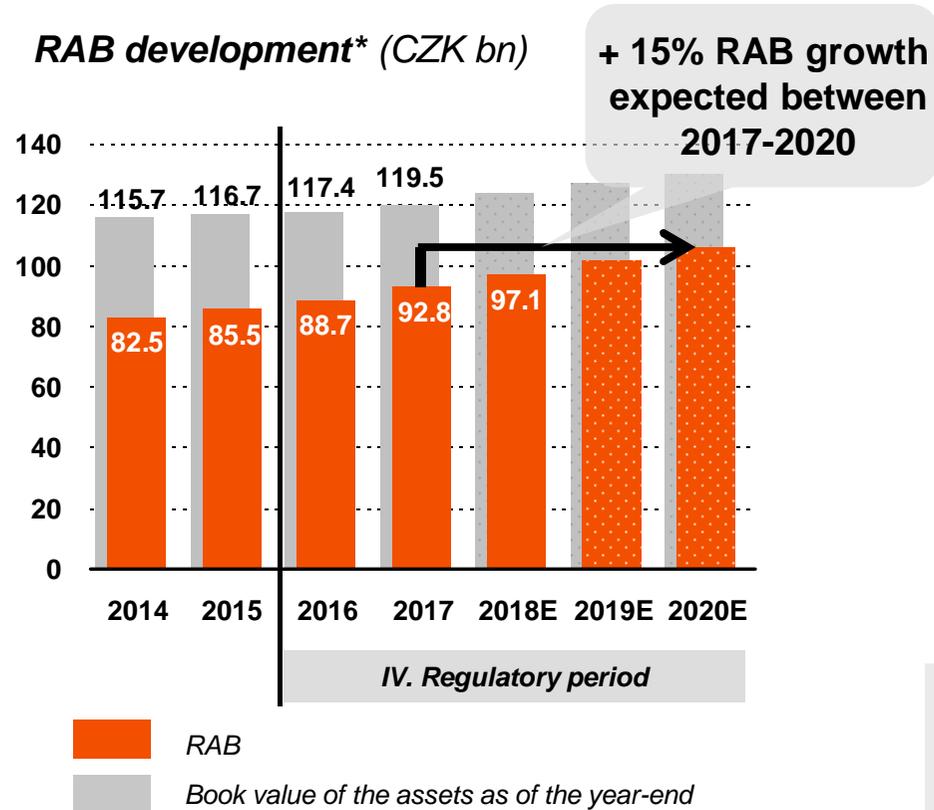
## CZK bn CAPEX plan in the distribution segment



# CZECH REPUBLIC - RAB GROWS AS A RESULT OF POSITIVE NET CAPEX AND BY APPLICATION OF THE REVALUATION COEFFICIENT



**RAB development\* (CZK bn)**



- Investments above depreciation lead to growth of the Regulatory Asset Base (RAB)
- Initial value of RAB was set at lower amount than the book value of assets.
- Revaluation coefficient\*\* reduces initial RAB discount to asset book value.

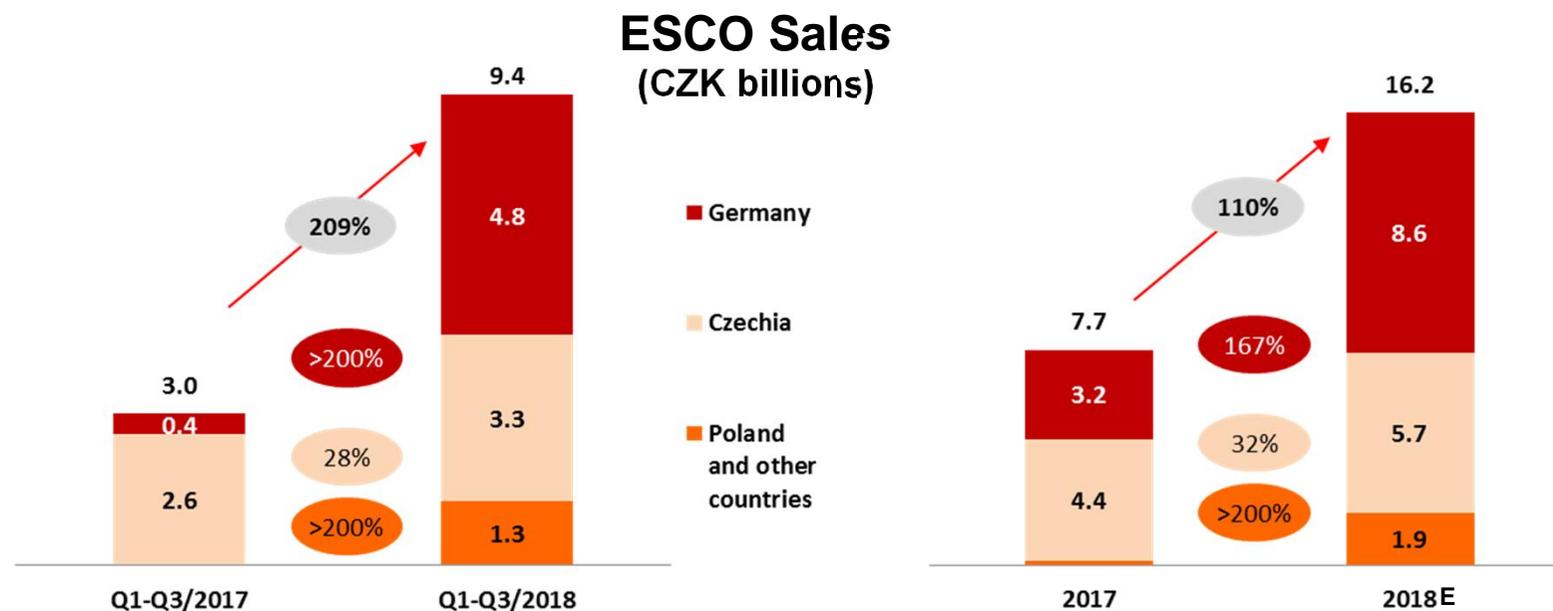
**Revaluation coefficient:** allowed depreciation is not fully deducted from RAB.\*\*

**Correction factor** to reflect planned and actual CAPEX (usual impact in tens of millions) and to reflect transfer of assets to another company.

**RAB formula:**

$$RAB(y) = RAB(y - 1) + Investments(y) - Depreciation(y) \times \frac{RAB(y - 1)}{NBV(y - 1)} + Correction\ factor(y)$$

# GROWTH IN ESCO BUSINESS IS A MAJOR STEP TOWARD FULFILLING OUR STRATEGIC AMBITIONS



**The potential for CEZ Group’s dynamic growth in ESCO is amplified by the EU countries’ commitment to major energy savings by 2030.**

- We estimate investment costs needed for the fulfilment of the EU energy efficiency directive until 2030 (derived from GDP growth) at **approx. EUR 600bn in Germany** and **approx. CZK 700bn in the Czech Republic**.
- However, high demand for ESCO services in the future is primarily guaranteed by attractiveness for customers: **projects effectively pay for themselves from savings (they do not need subsidies)** and new technologies provide customers with greater comfort and modern functionalities.

# CEZ GROUP CONTINUES ITS EXPANSION IN ENERGY SERVICES ALSO IN 2018



## Germany

- On July 31, the acquisition of a 100% stake in the **Kofler Energies Group** was completed. The group is the German market's leading design and engineering company providing solutions for various industrial sectors and public administration. These concern, e.g., energy and generating facility efficiency or equipment optimization. The company has 240 employees.



## Romania

- On Aug 30, an agreement was signed concerning the acquisition of a 100% stake in **High Tech Clima**, one of HVAC leader in the Romanian market. The company also has a number of international clients and orders from abroad, including Czechia. The company has more than 100 employees.



## Slovakia

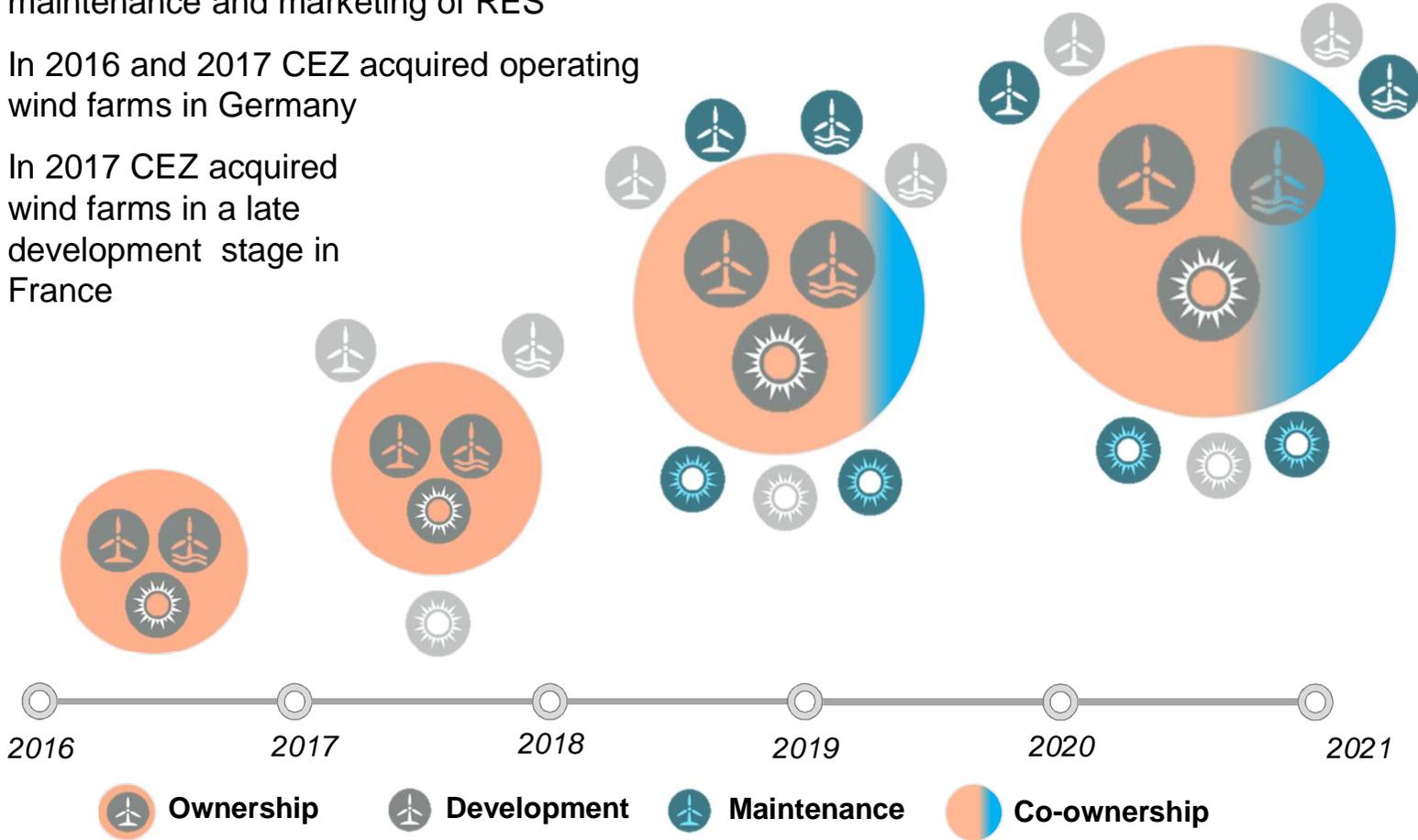
- On July 10, ČEZ ESCO acquired a 100% stake in **TMT Energy**, a company operating a local distribution system covering 60 hectares in Trnava. Its customers are mostly retail stores.



# CEZ GROUP AIMS TO BECOME AN INTEGRATED PLAYER IN RENEWABLES



- CEZ aims to become a fully integrated player in development, operating, maintenance and marketing of RES
- In 2016 and 2017 CEZ acquired operating wind farms in Germany
- In 2017 CEZ acquired wind farms in a late development stage in France



# SUCCESSFUL OPERATION OF ROMANIAN AND GERMAN WIND PARKS FOLLOWED BY PROJECTS DEVELOPMENT IN FRANCE



## Romania

- The largest European on-shore wind park - **600 MW** operated by CEZ Group in Romania
- Operating support in the form of green certificates for 15 years

## Germany

- **133.5 MW** operated by CEZ Group in Germany
- Operating support in the form of a 20-year feed-in tariff
- Feed-in tariff – average of 89 EUR/MWh (flat)

## France

- Acquisition of projects for 9 wind farms in a late development stage with **a total installed capacity of up to 101.8 MW**
- PPA secured – average price of 81 EUR/MWh (escalated) for 15 years
- Connection to the grid and first revenues between 2019 to 2022



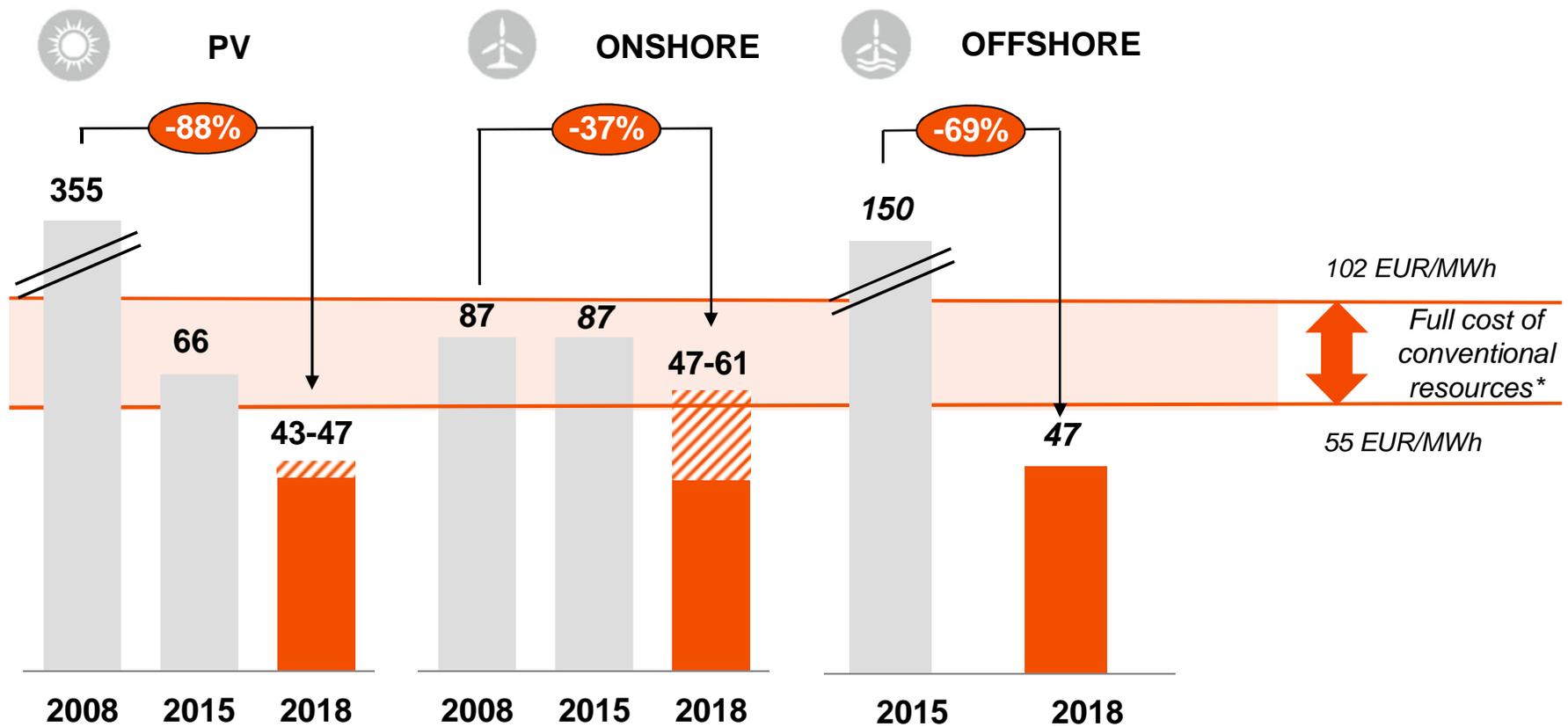
## Total capacity of wind farms incl. French pipeline - 844 MW\*

- Strengthening of the position in the field of renewable energy and entering new markets
- Germany acquisitions to date generate CZK 0.85bn EBITDA potential for fulfilling the 2020 strategic financial target for Renewables (achieving additional\* 2020 EBITDA of CZK 3bn).
- Areas for further focus – Western Europe, renewable projects primarily in the development phase

# RENEWABLE ENERGY COST HAS FALLEN TO HALF AND IT IS IN LINE WITH CONVENTIONAL RESOURCES



EUR/MWh



# E-MOBILITY WITHIN CEZ GROUP INCLUDES BROAD SPECTRUM OF ACTIVITIES



## Charging infrastructure\*

- Main goal is to develop backbone network of fast charging stations throughout the Czech republic (regional cities and major roads)
- Additional implementation of normal charging stations (car parks, shopping centers, bus depots)

## ⇒⇒⇒ Co-financed by EU programs

- EV Fast Charging Backbone Network Central Europe
- CEZ EV TEN-T Fast Charging Network

## Offering set of different products to customers

- Commercial products\*\* - e-mobility for smart cities, electrification of public transport, products for different customers with individual operation (SME, large companies), ...
- Commodity products\*\*\* - main product is “electricity for charging” that offers customers accessible and simple connection to all stations operated by CEZ



# CEZ INVESTS IN INNOVATIVE ENERGY COMPANIES



**INVEIN CAPITAL**  
CEZ GROUP

**CZK 5bn Committed capital (by CEZ Group), CZK 1.6bn already invested, Investment Period – 5-7 year ; Established cooperation with EIB\***



- **Sonnen** - smart battery systems for storing energy from solar panels and other renewable energy sources. CEZ ESCO already installed first Sonnen battery in the CR. More than 12 000 installations globally (mainly Germany, Austria, Switzerland, expanding in US, Australia, Italy)



5 |



Sonnen voted most innovative company in the Global Cleantech 100 list 2016.



- **Sunfire** - unique reversible fuel cell technology, which is able to convert a fuel (such as natural gas) into electricity and heat as well as electricity back into hydrogen and other gases (Power-to-Gas) or synthetic fuels (Power-to-Liquids).



- **Tado** – the European leader in smart thermostats, integrates heat and AC management, integration with more than 5 000 heating and AC systems, ability to provide diagnostics of connected equipment

CLOUD&HEAT



- **Cloud & Heat** – designs, builds, and operates environmentally friendly, water-cooled, public and private data centers for cloud computing. The solution makes use of heat from servers to heat offices and water in office buildings, up to 50% reduction in operating costs in comparison with conventional solutions.



- **Vulog** - the global independent leader in providing technology for shared mobility, offering end-to-end solutions enabling mobility operators to launch large-scale carsharing services.

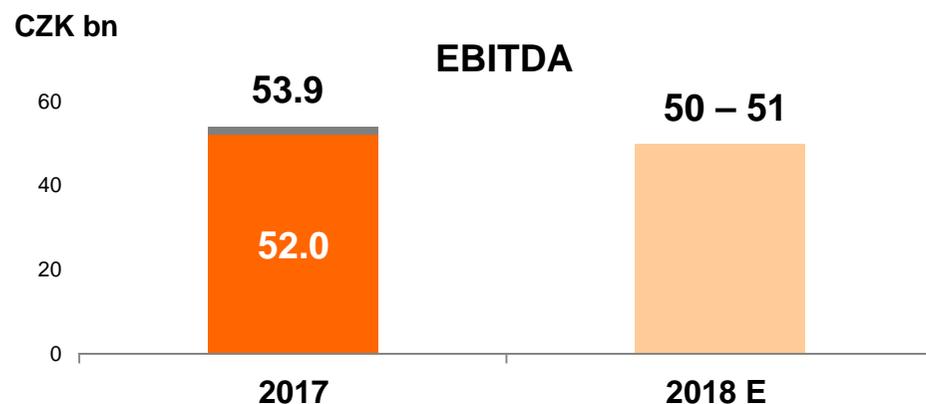
# AGENDA



---

▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
▪ Transformation	44
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▪ Regulation of distribution	52
▪ Renewables support schemes	56
▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# WE EXPECT 2018 EBITDA AT CZK 50BN TO 51BN, ADJUSTED NET INCOME AT CZK 13BN TO 14BN

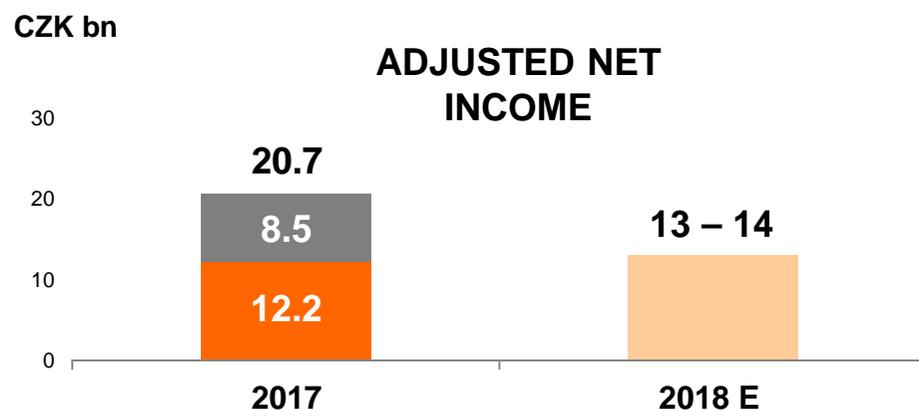


### Selected year-on-year positive effects on EBITDA:

- Higher generation at nuclear power plants
- Higher realization prices of electricity, including the effect of hedges
- New acquisitions in ESCO and RES

### Selected year-on-year negative effects on EBITDA:

- Significant one-off effects in 2017 (CZK -2.9bn)
- Higher expenses on emission allowances in generation from conventional generating facilities
- Lower allocation of green certificates for Romanian wind farms since Jan 1, 2018
- Lower gross margin from electricity and gas sales in the Czech Republic caused by higher purchase electricity prices for deliveries in 2018
- Lower generation at coal and CCGT plants



### Material nonrecurring effects in 2017 (total CZK +8.5bn):

- Of which at EBITDA level CZK +2.9bn: profit from commodity trading above the full year target (1.0), valuation of green certificates for Romanian wind farms allocated in the past (0.8), settlement agreement with Sokolovská uhelná (0.7), out-of-court agreement with Bulgarian state-owned company NEK (0.4)
- Of which below EBITDA CZK +5.6bn: termination of MOL shareholding (4.5), Sale of property in Prague (1.1)

### Material nonrecurring effect in 2018

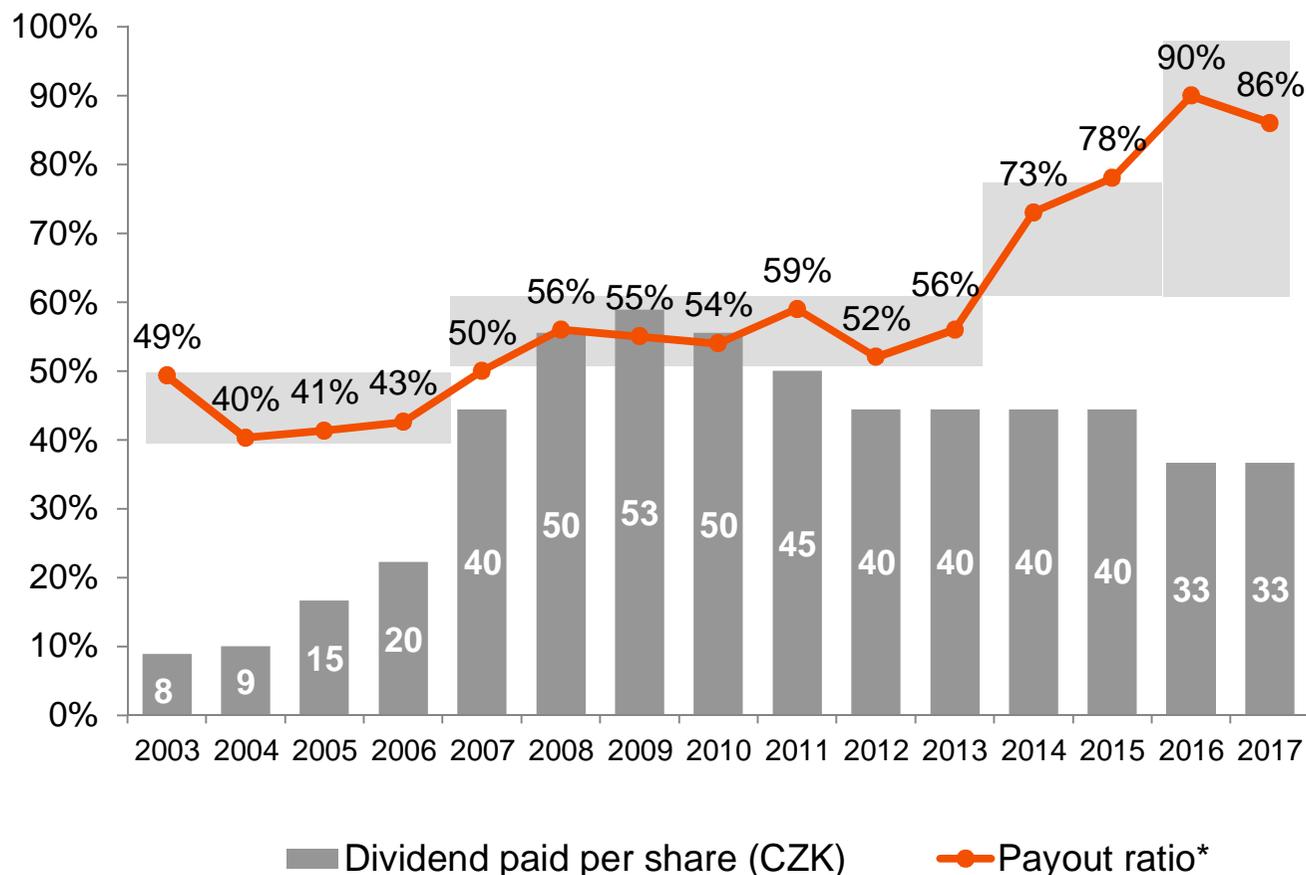
- Below EBITDA: Income on account of interest on refunded gift tax on emission allowances (CZK +0.7 billion)

Material nonrecurring effects in 2017

# DIVIDEND POLICY IS TO DISTRIBUTE 60 – 100 % OF ADJUSTED NET INCOME OF 2016 AND 2017 PROFITS



**Payout ratio\* (%)**



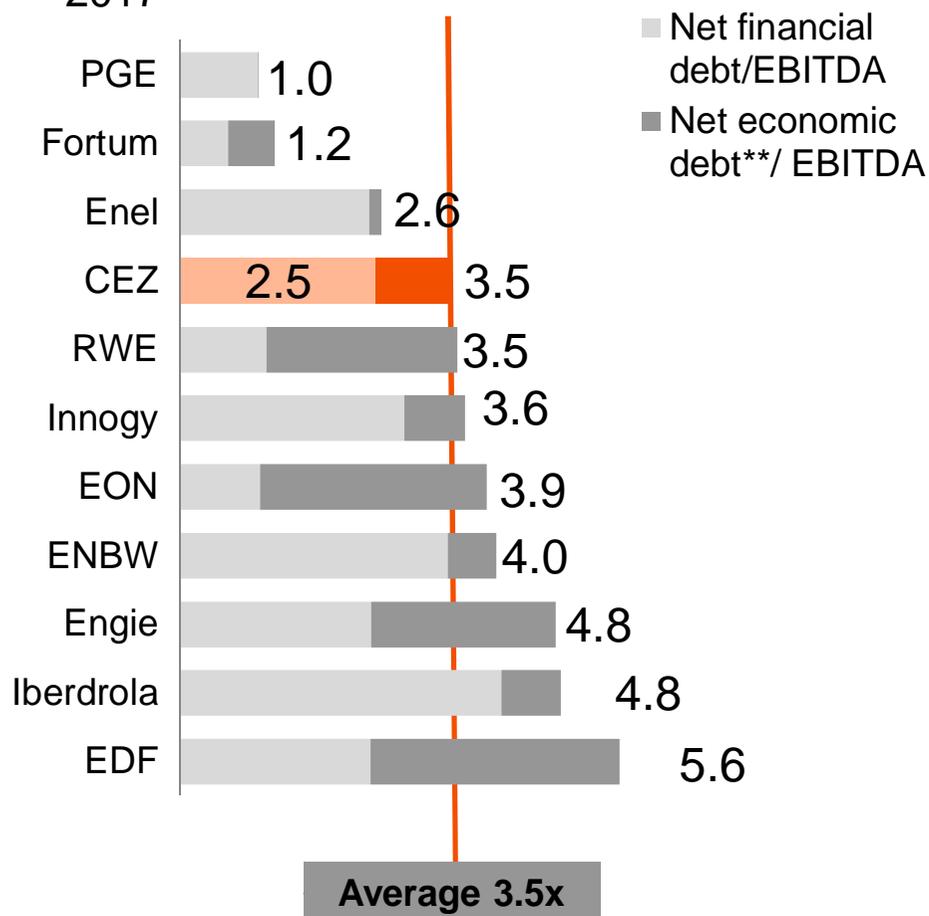
- The Annual General Meeting of CEZ held on June 22, 2018 approved to pay a dividend equal to CZK 33 per share
- Dividend payment started on August 1st, 2018

# CURRENT LEVERAGE ALLOWS FOR DEBT FINANCED ACQUISITIONS WITHOUT EXCEEDING ND/EBITDA 3.0x



## Net economic debt/ EBITDA\*

2017



## Current credit rating

- A-, stable outlook from S&P
- Baa1, positive outlook from Moody's

## Tolerated leverage

- net financial debt/EBITDA ratio at 2.5-3.0x
- assumes funding of new development activities (primarily acquisition of renewable projects, distribution, sales and heat assets)

\*EBITDA as reported by companies, \*\* Net economic debt = net financial debt + net nuclear provisions + provisions for employee pensions + net reclamation provision

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▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
▪ Transformation	44
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▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# SUMMARY

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- CEZ is operating renewed low cost and profitable generation fleet and is positioned to get upsides from high CO2 and/or hard coal prices
- Future growth of CEZ comes from ESCO, distributed energy and renewables in countries in which CEZ is present in Central/Western Europe:
  - CEZ increased its investments into distribution
  - CEZ acquired ESCO companies in the Czech Republic and Germany and aims to become a leading player in energy efficiency solutions
  - CEZ acquired renewables in Germany and France and aims to become a fully integrated development, operating, maintenance and marketing of RES
- CEZ leverage allows for debt financed acquisitions not exceeding ND/EBITDA 3.0x
- Approved dividend of CZK 33 per share from 2017 earnings, i.e. 86% of adjusted net income.

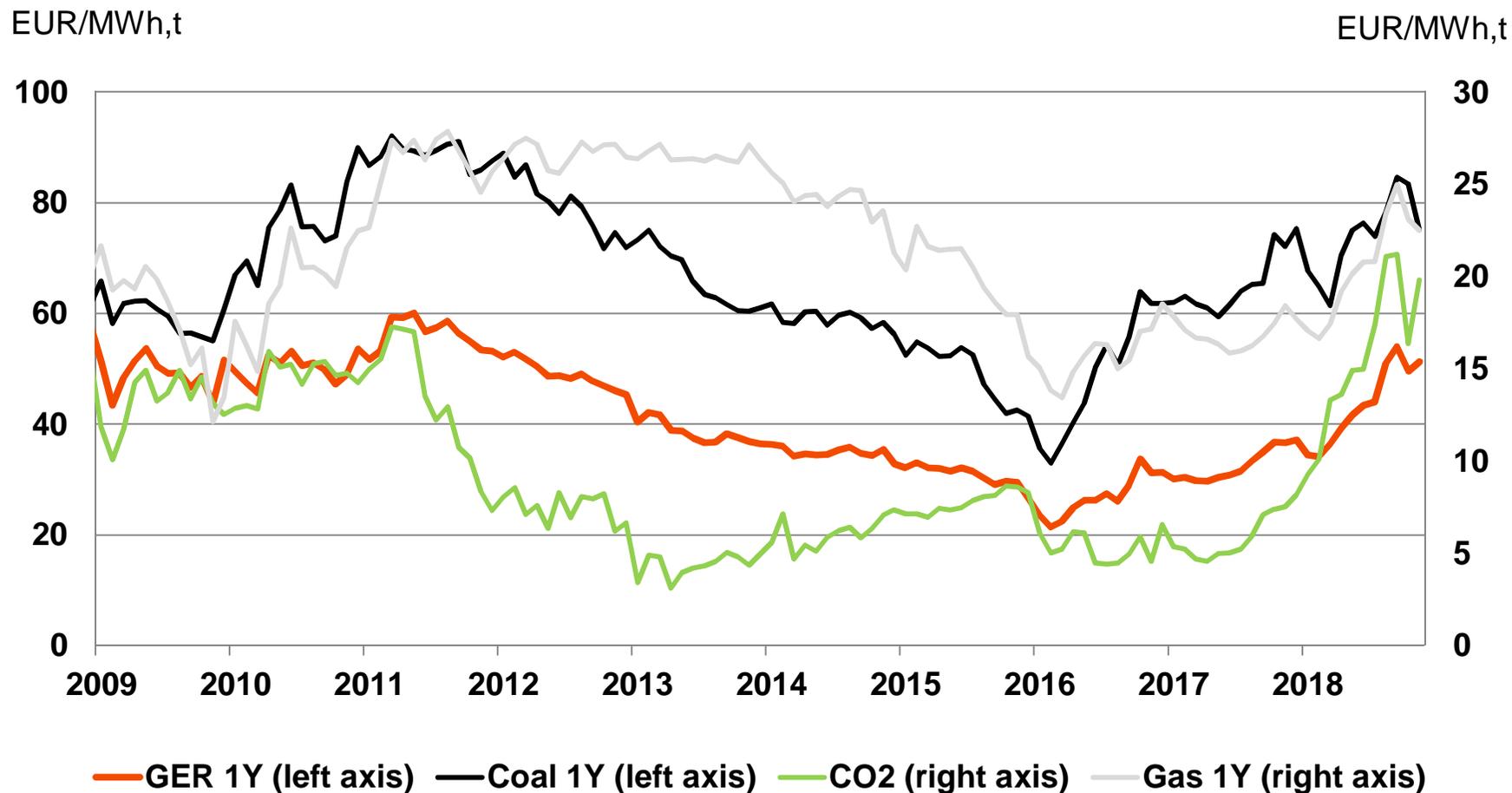
# AGENDA



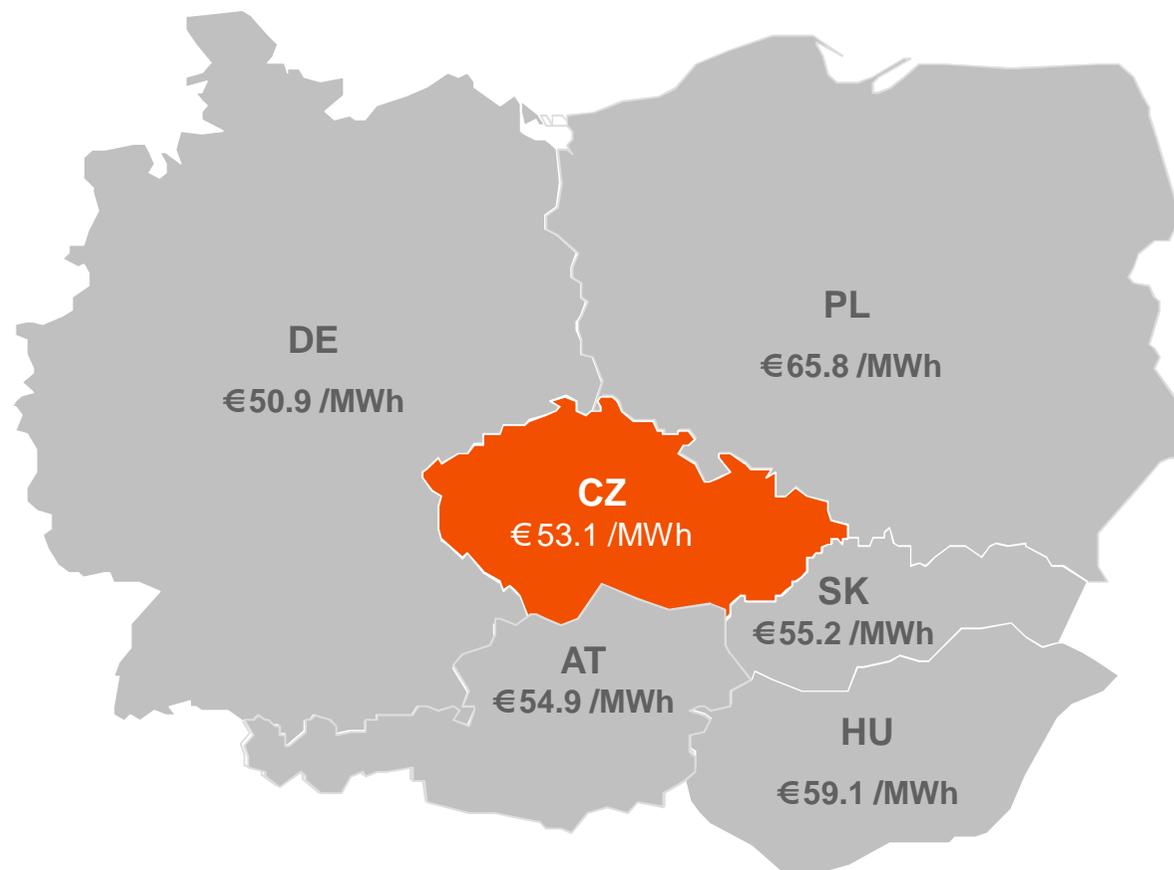
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▪ Introduction, strategic priorities	1
▪ Traditional Generation	9
▪ Regulated and New Energy	18
▪ Financial performance	29
▪ Summary	33
▪ Backup	35
▪ Electricity market fundamentals	36
▪ Project of new nuclear in the Czech Republic	43
▪ Transformation	44
▪ EU ETS, derogation scheme in the CR	46
▪ Environmental, social and governance	48
▪ Regulation of distribution	52
▪ Renewables support schemes	56
▪ 2018 generation outlook	58
▪ Latest and historical financial results	59

# HISTORICAL DEVELOPMENT OF PRICES OF INPUT COMMODITIES



# ELECTRICITY MARKETS IN THE REGION ARE INTEGRATED, CEZ CAN SELL ITS POWER ABROAD

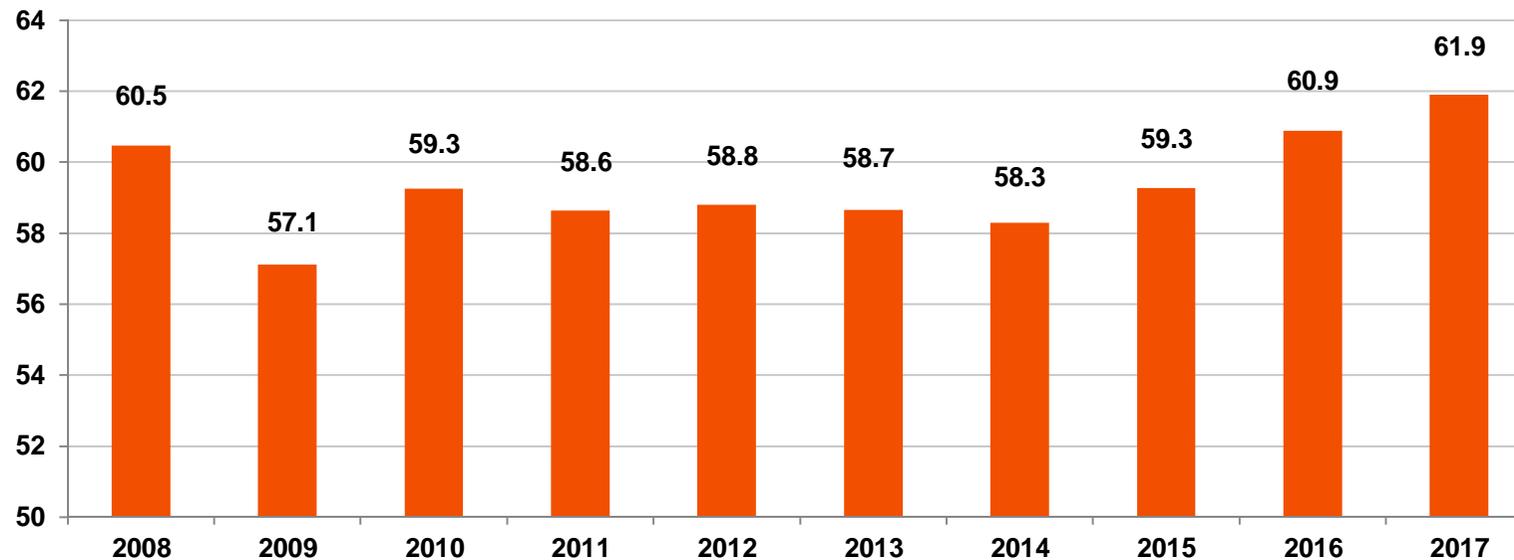


Source: EEX, PXE, TGE

# CZECH ELECTRICITY DEMAND GREW BY 1.6% IN 2017



Net electricity consumption in the Czech Republic (TWh)

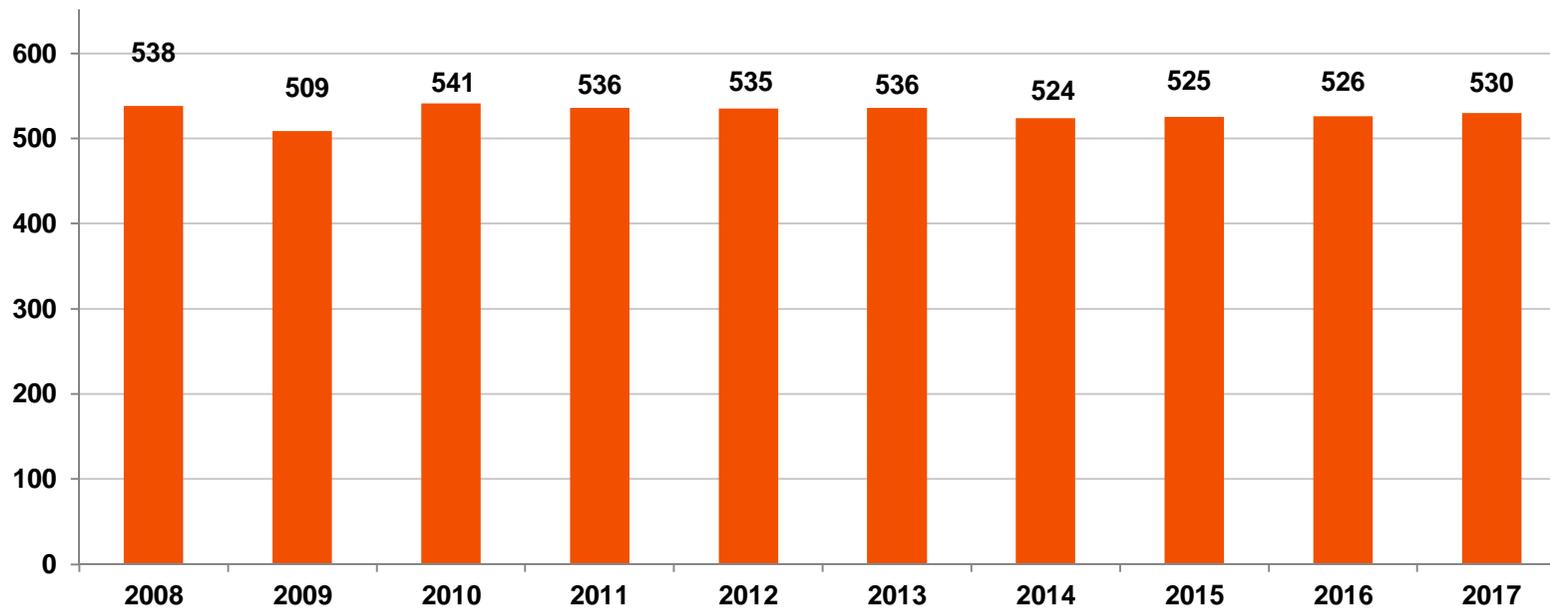


- **Temperature adjusted electricity consumption** in the Czech Republic **grew by 2.4% in 2017**
- **Unadjusted consumption** in the Czech Republic grew **1.6% in 2017**, of which:
  - + 2.5% large industrial companies
  - + 2.7% households
  - + 1.0% small businesses
- **Unadjusted consumption** in the distribution area of CEZ Distribuce\*\* **grew by 2.4%**
  - + 2.9% large industrial companies
  - + 2.3% households
  - + 0.8% small businesses

# GERMAN ELECTRICITY DEMAND STAGNATES Y/Y

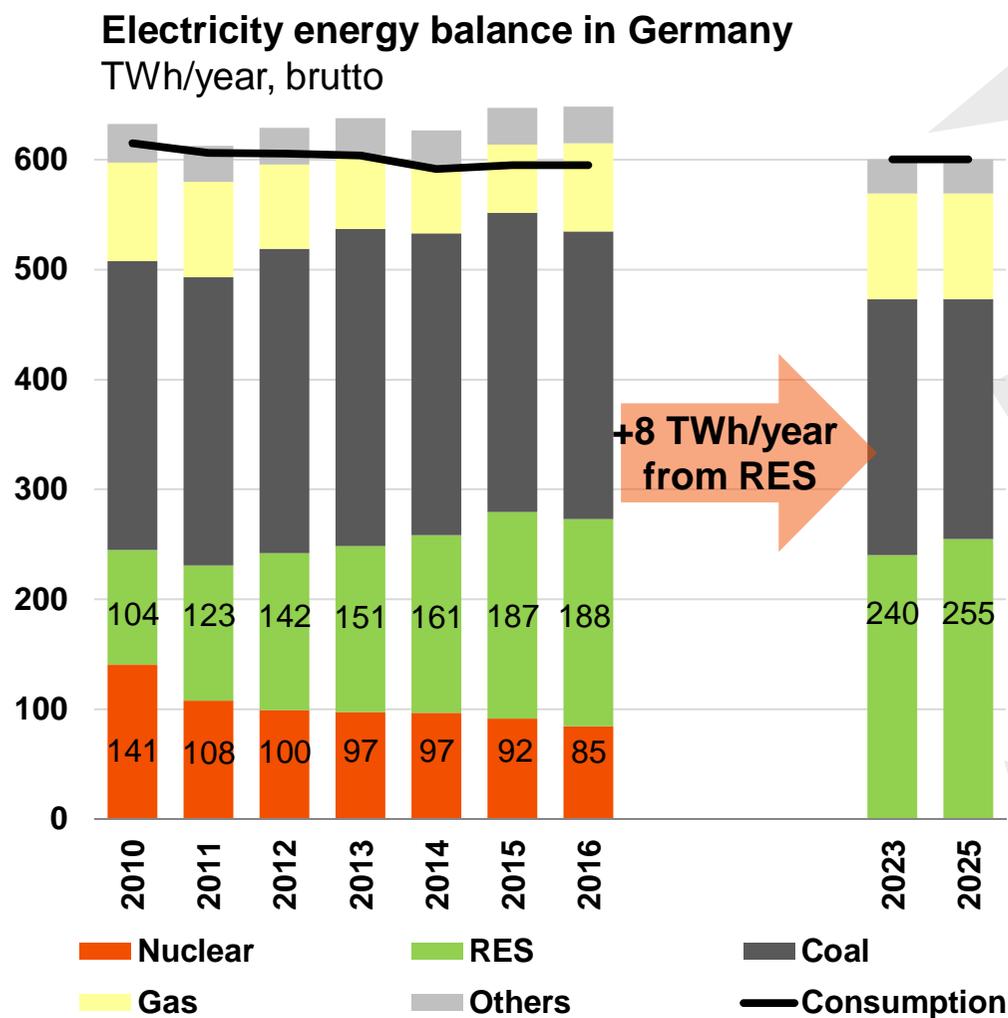


Net electricity consumption in the Germany (TWh)



- **Net electricity consumption** in Germany **grew by 0.8 % in 2017** of which:
  - + 0.6% industry
  - - 0.2% households
  - + 1.4% trade, small businesses, public institutions and agriculture

# RENEWABLE GENERATION GROWTH IN GERMANY WILL MORE THAN OFFSET PLANNED PHASE OUT OF GERMAN NUCLEAR AND COAL POWER PLANTS BY 2023...



**German consumption**

- Long term stagnation
- Potential decrease due to Energy Efficiency Directive
- Most likely low support from EV; 2020 target: 1m cars ~ 2.5 TWh/year

**German supply (2025 vs 2010)**

- Nuclear power plants phase out (Atomausstieg)** : -141 TWh from Nuclear
- Energiewende** : +151 TWh from RES
- Germany electricity balance won't be in shortage, moreover there is potential for higher utilization of gas and hard coal resources (current utilization of gas resources 37% and hard coal 47%)

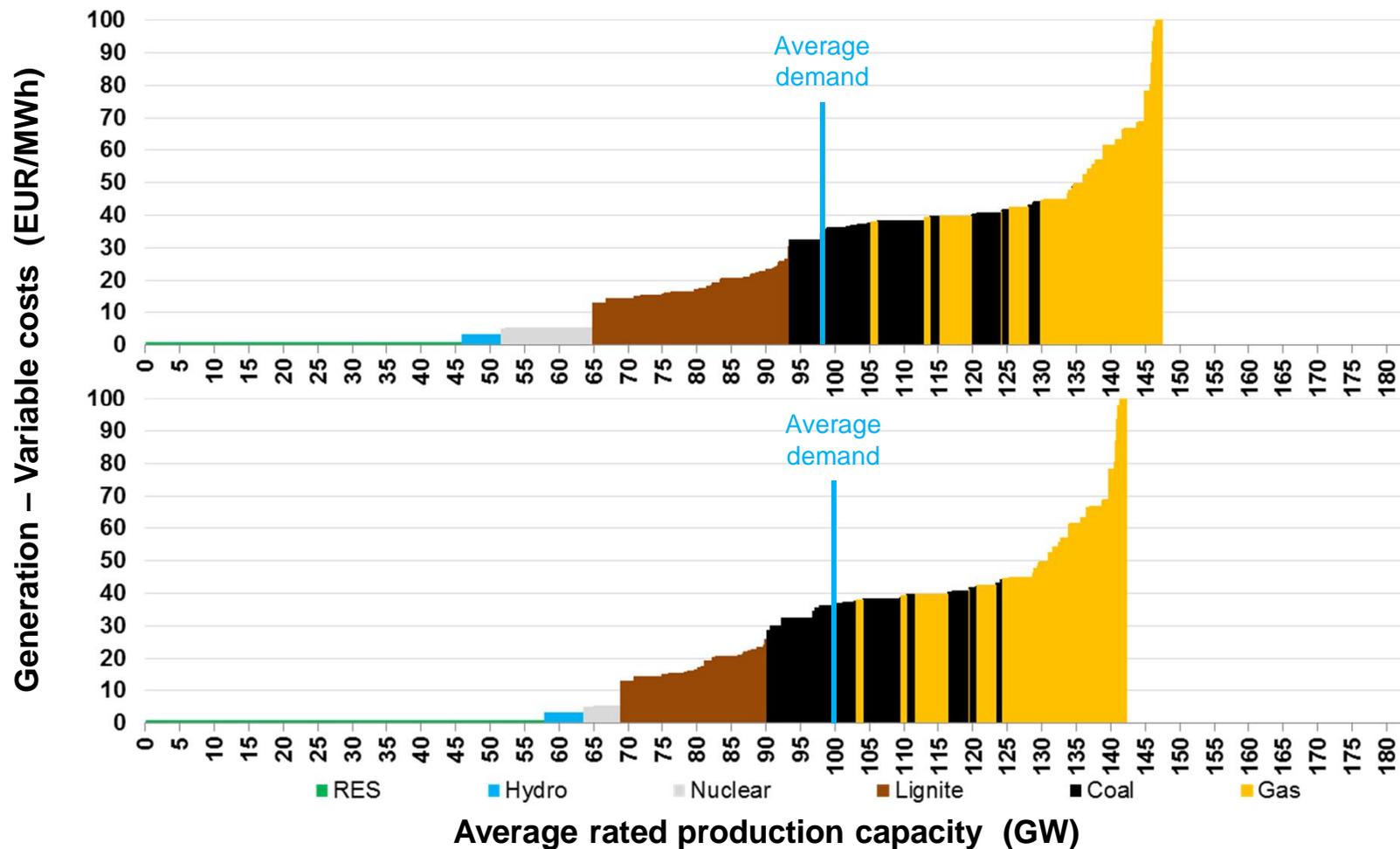
**After 2023**

- Growth of RES volumes** based on plan. Annually displaces 1000 MW of coal from the market
- Elimination of a substantial part of coal from the German energy mix can be expected in the period 2030-2035, depending on the development of environmental legislation

# ...AND PRICE UPSIDE FROM THE GERMAN'S PHASE OUT MIGHT BE EXPECTED...



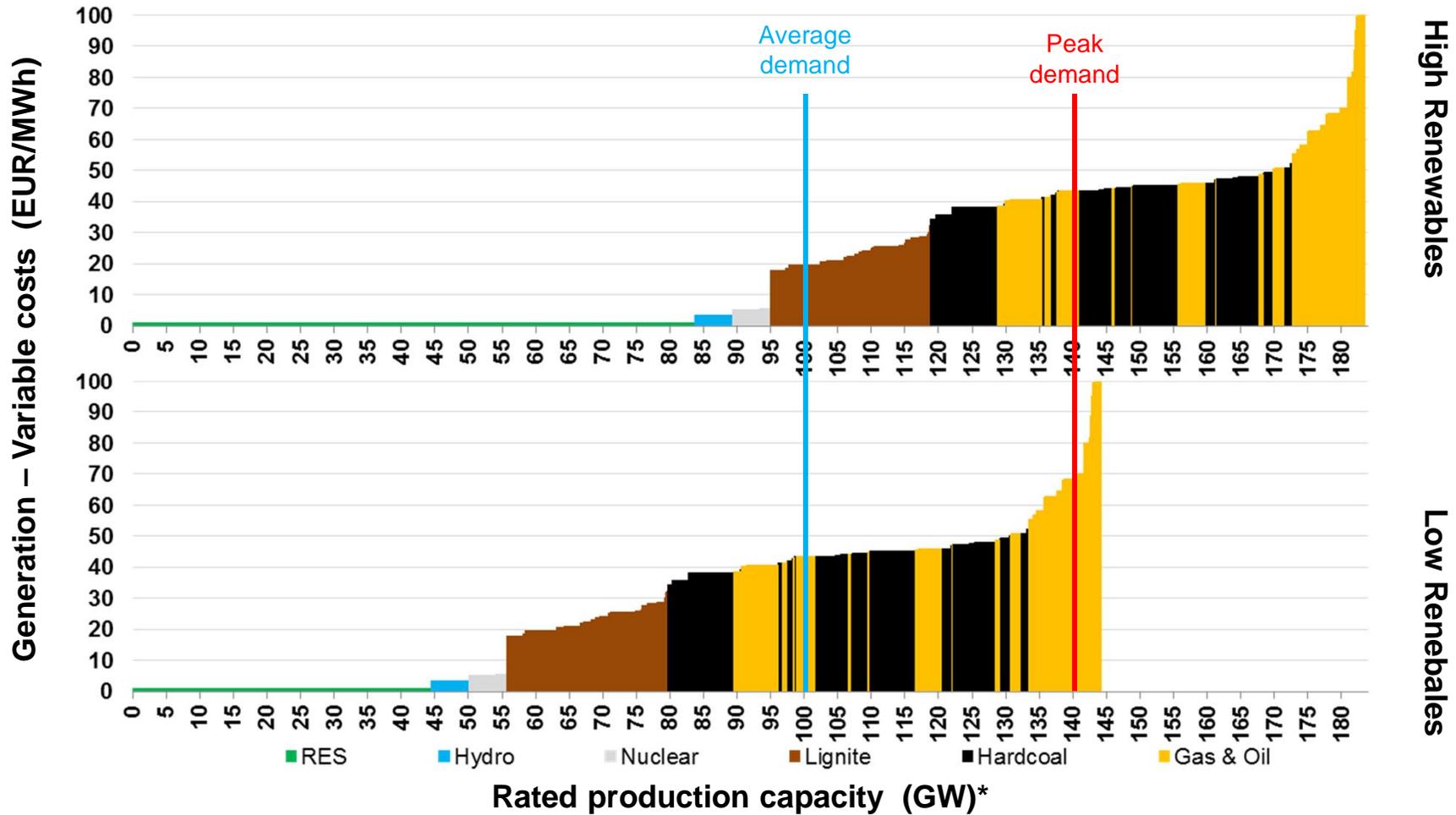
Illustrative cost curve for Central Europe 2017, 2023\*



# ... RENEWABLES WILL BRING MORE VOLATILITY INTO THE MARKET



Illustrative cost curves for Central Europe 2023

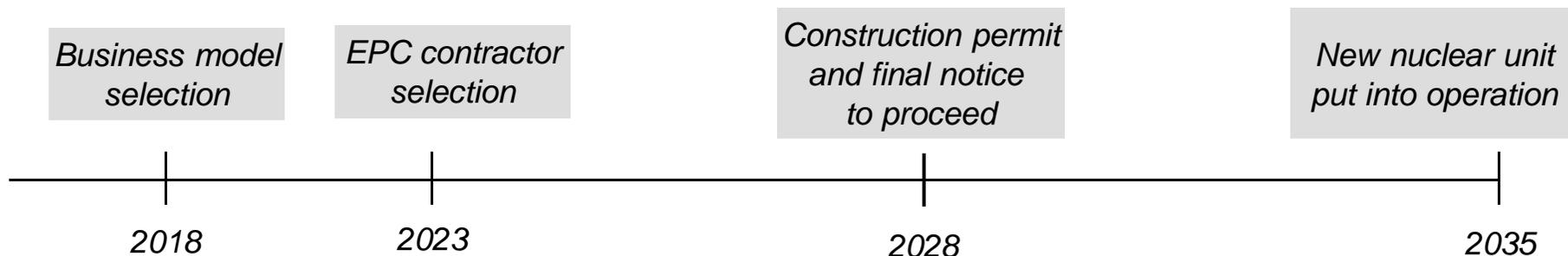


# PROJECT OF NEW NUCLEAR IN THE CZECH REPUBLIC



- State energy policy aims to preserve full independence of the Czech Republic in power production after the country runs out of domestic coal and assumes building new nuclear units in the Czech Republic once Dukovany Nuclear Power Plant reaches end of its operations (expected in 2035).
- In 2014 (after 5 years) CEZ abandoned unfinished tender for contractor of a new unit after the government declined to provide any guarantees related to the new unit's operations and construction.
- Government run Standing Committee for Nuclear Energy is currently investigating three options for new nuclear project's investment set-up:
  - CEZ will develop the project
  - State will acquire the project and develop it
  - State will acquire bigger part (e.g. the existing nuclear capacity) of CEZ and develop the project
- Support mechanism, including potential state guarantees, needed for each option is part of the analysis.
- CEZ is participating in the analysis

## Envisaged timeline of new nuclear project in the Czech Republic



# DISCUSSION OF CEZ GROUP'S TRANSFORMATION DRIVEN BY TWO CONSIDERATIONS



## Construction of a new nuclear power plant in the Czech Republic and the Czech state's priorities

- The Czech Standing Committee on Nuclear Energy defined three investment models/funding options for a new nuclear facility in the Czech Republic
- One of the options anticipates that CEZ Group would transform into several independent companies

## Energy market trends and investors' differing views of traditional and new energy

- Environmental legislation for the operation of coal-fired power plants and mines and requirements for the operational safety of nuclear power plants are getting stricter
- The dynamics of the energy market is changing; conventional energy is dissociating from new energy, including different perception by investors
- Several major transformations of energy groups were made in Europe

- In September 2017, the Presidium of the Government of the Czech Republic gave task that a ČEZ Transformation variant be worked out as an alternative for ČEZ's future direction in the context of the European energy sector and the State Energy Policy and as one of three variants enabling the construction of a new nuclear power plant in the Czech Republic
- CEZ Group analysed various options of CEZ Group transformation and assessed, as part of a complex project, whether the possible transformation could increase value for shareholders and how it is realistically possible to implement a project for a new nuclear power plant in the Czech Republic and fulfil Czech Republic's State Energy Policy
- **Board of Directors of ČEZ, a. s. has not arrived at any conclusions on this matter yet.**

# CONTEMPLATED OPTIONS ARE HEADING TOWARDS SEPARATION OF TRADITIONAL GENERATION FROM DISTRIBUTION, SALES AND NEW ENERGY



## Key benefits of the recommended option for ČEZ's SHAREHOLDERS:

- 1 Significant increase of ČEZ's value**
  - Eliminating uncertainty concerning NNPP construction and coal assets and the related discount on shares price
  - Increasing value by creating investment specific opportunities sought after by specific investors
- 2 Target companies with a clear strategic focus**
  - Generation company focusing on the state's energy security and NNPP construction, which will be able to deal better with specific business and regulatory risks
  - New company focusing on growth and innovation in the field of new energy

## Key benefits of the advisable transformation for the Czech Republic:

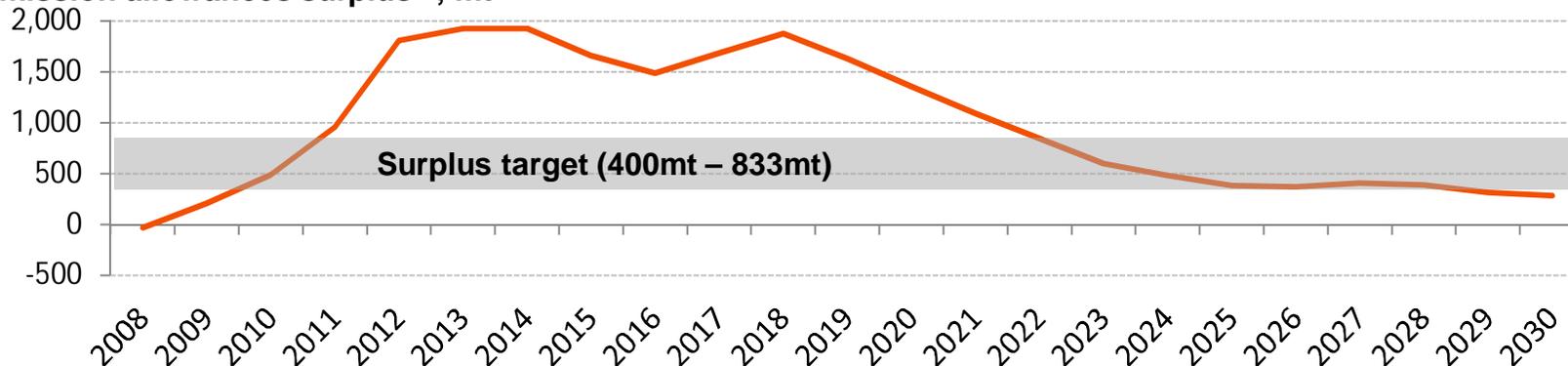
- A Fulfilment of Czech Republic's State Energy Policy**
  - Construction of new nuclear power plants
  - Preservation of full control of the Czech state over CEZ Group's coal reserves
- B Preservation of the Czech state's shareholding in a New company, i.e. in a liquid and attractive asset, which can be sold off flexibly in the future to obtain financial proceeds for the state - should it be needed.**

# EUROPEAN UNION IS PROGRESSING WITH REFORM OF ITS EMISSION TRADING SCHEME BUT THE MARKET REMAINS STRUCTURALLY OVERSUPPLIED



- 2013
|
**PHASE 3 – starting with 1,749 mt surplus from phase 2, current surplus on similar level (i.e. cca. 1Y CO2 production/demand)**
  - The growing surplus of emission allowances – due to oversupply and the economic slowdown – has driven the carbon price well below the levels expected when the ETS was created
  - Several measures introduced in order to bring the market into balance – freezing of 900m of allowances; introduction of the MSR from 2019 (withdrawal of 24% of total emission surplus if total surplus is above 833 Mt)
  - EU allowances supply (wide cap) 1,969 mt x EU allowances demand (verified total emission) 1,750 mt in 2016
  - Cap decreases each year by the linear factor of 1.74% (38 mt)
- 2019
|
start of MSR
- 2021
|
**PHASE 4**
  - Increase in linear factor of cap to 2.2% (48 mt), MSR withdrawal pace of 24% will be in operation till 2023 when the optimal surplus level is expected (after 2023 decrease to 12%), partial cancellation of allowances in the MSR and voluntary option to governments to cancel permits from auctions when coal plants shut down - agreed in dialogue\* on November 8<sup>th</sup>.
  - MSR will help to withdraw the unused surplus from the market but whether it will bring balance to the market remains to be seen
- 2030
|

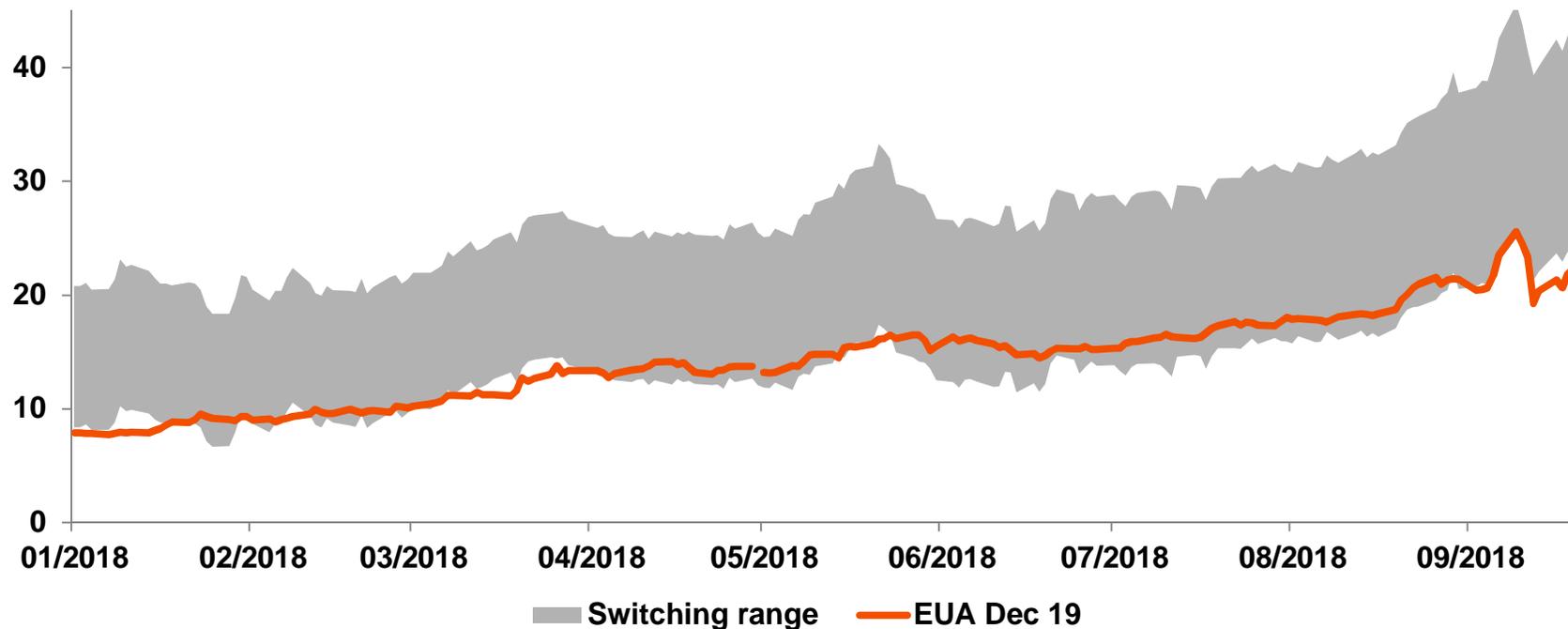
**Emission allowances surplus\*\*, mt**



# RELATIVE FUELS' PRICE DEVELOPMENT IS A POSITIVE FACTOR FOR THE EUA AS HIGHER CO2 PRICES ARE NOW NEEDED TO INCENTIVISE COAL-TO-GAS SWITCHING



Price needed for Coal-to-Gas switching, low and average efficient sources\*, Emission allowance prices on forward market EUR/t, Cal 2019



- Current emission certificate price allows to switch part of the generation from the least efficient coal power plants to the most efficient gas power plants
- Even if the CO2 price has almost tripled since the beginning of the year, it hasn't incentivized additional emission savings because of the gas price increasing faster than the coal price
- The whole switching potential is estimated to 280 Mt of CO2 savings, half of this potential would be achieved with EUA price of around 35 EUR/t (assuming current fuel prices)

# ENVIRONMENTAL, SOCIAL AND GOVERNANCE



**CEZ Group has formulated a sustainable development strategy “Energy for the Future”** and has nominated Member of the Board of Directors **Michaela Chaloupková** to be CEZ Group Sustainability Leader with responsibility for oversight of the sustainable development. The Board oversees ESG and climate-related issues regularly.

## Environment

- ČEZ made a commitment to generate carbon neutral electricity before 2050
- ČEZ is giving a priority to projects enabling plant operation after 2020 when new BAT/BREF limits are to enter into force

## Social

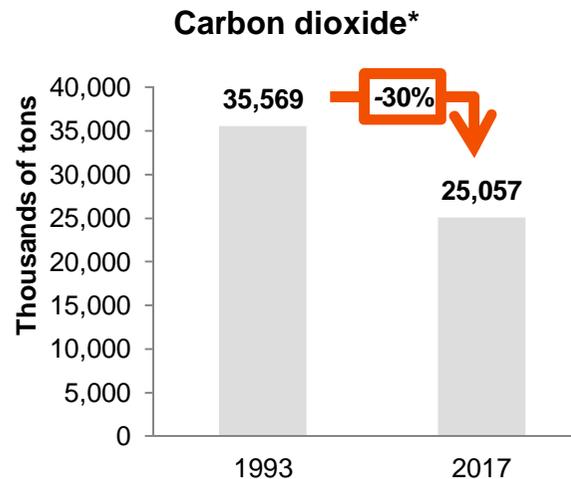
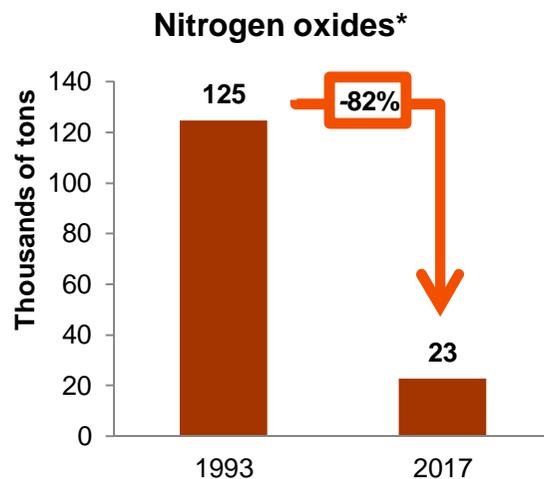
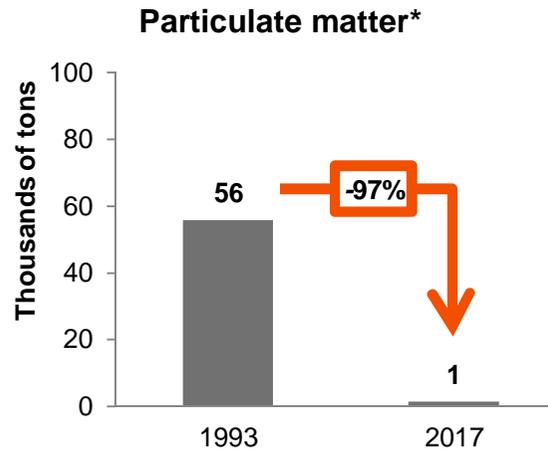
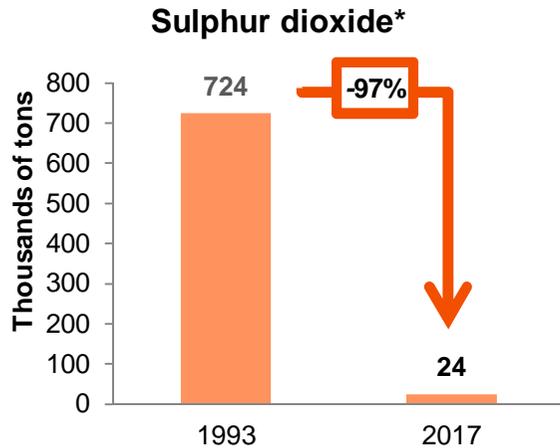
- ČEZ has donated CZK 323 million in 2017 through ČEZ Foundation or directly to more than thousand public benefit projects
- ČEZ has shortened 37.5-hour work week and one additional week of paid vacation beyond the statutory minimum.
- Freedom of association in trade unions, collective bargaining and a long-term collective agreement is in place within ČEZ Group companies.

## Governance

- 21.4% of employees are women, 32.7% of new employee hires are women
- 4 out of 12 Supervisory Board members are employee representatives
- 3 out of 19 Board of Directors and Supervisory Board members are women
- ČEZ has emphasis on providing equal opportunity and promoting diversity

Sustainability\* report providing details of our initiatives can be downloaded at [www.cez.cz/en/investors.html](http://www.cez.cz/en/investors.html)

# CEZ GROUP SIGNIFICANTLY REDUCED EMISSIONS FROM ITS COAL FLEET



- During 1990's CZK 111 bn has been invested into complex, modernization of power stations, desulphurization, denitrification and efficiency upgrades. 2,020 MW of old units have been decommissioned
- In 2000-02 nuclear power plant Temelin was commissioned and contributed to reduction of coal output
- 2010's comprehensive renewal of Tušimice and Prunéřov TPP's and new supercritical unit at Ledvice. Investment of more than CZK100 bn has led to further increase in efficiency of the power generation and emission reductions

# EU 2030 TARGETS FOR RES AND ENERGY EFFICIENCY WERE SET



**A COMPROMISE WAS REACHED IN JUNE BETWEEN THE EUROPEAN PARLIAMENT, EU COUNCIL, AND EUROPEAN COMMISSION CONCERNING AN ENERGY EFFICIENCY DIRECTIVE, RES DIRECTIVE, AND ENERGY UNION GOVERNANCE REGULATION.**

Key outcomes/energy targets for 2030:

- Tentative energy efficiency target of 32.5%, annual decrease of final consumption of at least 0.8%. Originally, the EU target according to the Council was to be 30%, the European Parliament aimed for 35%.
- Binding renewables target of 32% of gross final consumption of energy; member states are to define their own contribution at national level. Annual RES increase of 1.3% in the heating sector. Originally, the EU target according to the Council was to be 27%; the European Parliament aimed for 35%.
- Draft national climate and energy plans must be submitted by the end of 2018, final versions by the end of 2019. Member states must set an almost linear trajectory for achieving the RES target in the plans.

## **ELECTRICITY MARKET REGULATION REMAINS A CHIEF OPEN ISSUE**

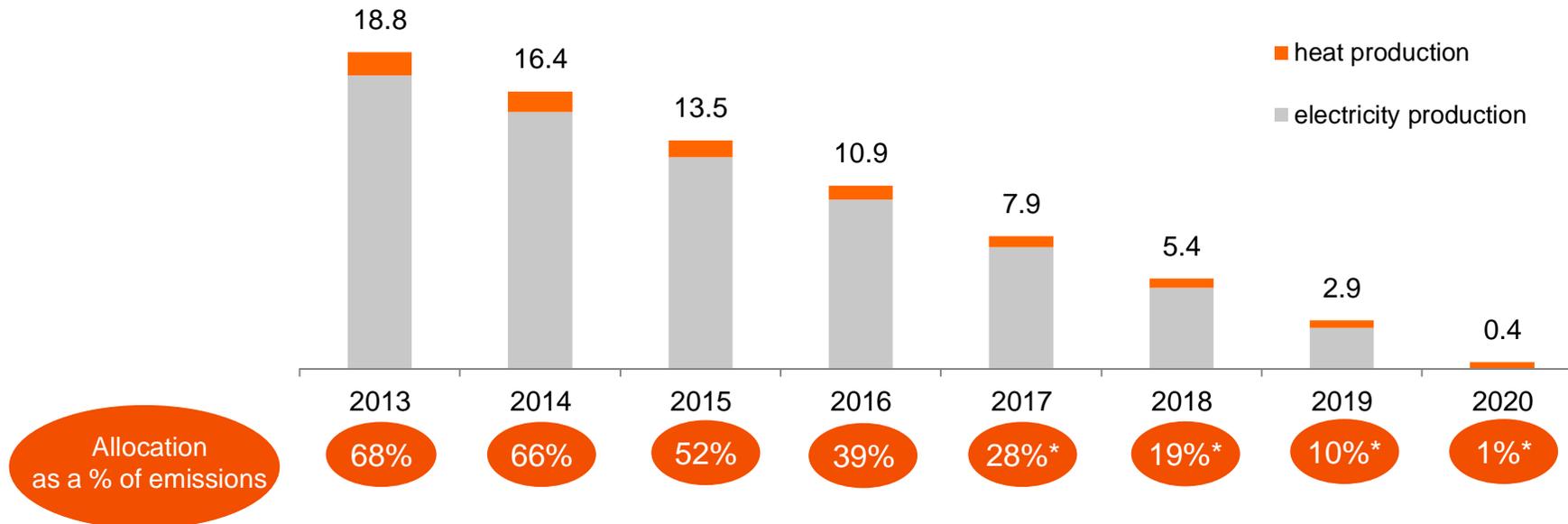
- The future features of the electricity market directive and regulation are still under discussion, with chief open issues being capacity mechanisms, regulation of retail prices, and allocation of cross-border transmission capacity for trading.
- Negotiations are also held on the consumer package (class actions, among others) and the clean mobility package (emission targets for passenger and commercial vehicles, e-mobility development).

# CEZ GROUP RECEIVES PART OF EMISSION ALLOWANCES FOR FREE



- CEZ Group to receive up to **69.6 million** emission allowances for electricity production in the Czech Republic in 2013–2019 in exchange for investments reducing greenhouse gas emissions.
- Up to 60% of the standard national auction volumes can be freely allocated for the modernization of the energy sector in less developed countries post 2020 (including Czech republic; investments into modernization are limited by carbon intensity of new/renewed source<sup>\*\*</sup>)

Expected allocation of allowances for CEZ Group in the Czech Republic (millions)



# CZECH REPUBLIC: ELECTRICITY DISTRIBUTION - OVERVIEW OF REGULATORY FRAMEWORK



## Regulatory Framework

- Regulated by ERU (Energy Regulatory Office, [www.eru.cz](http://www.eru.cz))
- The main components of regulatory formula for distribution
  - Revenue cap = Operating expenses + Depreciation + Regulatory return on RAB - Other revenues corrections +/- Quality factor + Market factor
  - RAB adjusted annually to reflect net investments
  - Regulatory rate of return (WACC nominal, pre-tax) – 7.951% for 2016-2020
  - Operating costs are indexed to CPI + 1% (30% weight) and market services price index (70% weight). In IV. Regulatory period efficiency factor set at 1.01%/year.
  - Quality factor – prescribed levels of SAIDI and SAIFI parameters Maximum bonus or penalisation +/- 4% of allowed profit. Currently has neutral impact on CEZ Distribuce.
  - Market factor to reflect unexpected cost which could not had been planned while setting planned values of allowed costs (e.g. new duties coming from new legislation). Never used by ERU in case of CEZ Distribuce.

## Regulatory period

- 4<sup>th</sup> regulatory period from January 1, 2016 till December 31, 2020\*,
- Main focus:
  - lowering allowed costs compared to the previous period (reflecting actual costs in the previous regulatory period);
  - pressure on quality and security of electricity distribution (prescribed SAIDI and SAIFI parameters);
  - renew and develop the networks incentivised by reasonable regulation parameters.

## Unbundling & Liberalization

- Since January 1, 2006 all customers can choose their electricity supplier, market is 100% liberalized
- Prices for distribution regulated as per above, prices of commodity is not regulated at all.

# CZECH DISTRIBUTION - WACC COMPONENTS IN IV. REGULATORY PERIOD



- WACC set using CAPM formula:

$$WACC = \left( k_e \times \frac{E}{D+E} \right) + \left[ \left( k_d \times \frac{D}{D+E} \right) \times (1-T) \right]$$

$$k_e = r_f + \beta \times MRP$$

$$k_d = r_f + \text{credit risk margin (CRM)}$$

- Risk free rate ( $r_f$ ) was derived from median yields of 10-y Czech sovereign bonds for 10 years period
- Credit risk margin set as a difference between BBB rated corporate bonds and 10Y German and French Sovereign bonds\*

WACC components	4th regulatory period 2016 – 2020
Risk free rate ( $r_f$ )	3.82 %
Market risk premium (MRP)	5 %
$\beta$ unlevered	0.536
$\beta$ levered ( $\beta$ )	0.901
<b>Cost of equity (<math>k_e</math>)</b>	<b>8.32 %</b>
Credit risk margin (CRM)	1.38 %
FTSE Euro Corporate Bonds BBB	4.53 %
EUR gov 10YEUR	3.15 %
<b>Cost of debt, pre tax (<math>k_d</math>)</b>	<b>5.19 %</b>
Tax rate (T)	19 %
<b>Cost of debt, post-tax</b>	<b>4.21 %</b>
Debt/(Debt+Equity)	45.75 %
<b>WACC (nominal, before tax)</b>	<b>7.951%</b>

# ROMANIA: REGULATORY FRAMEWORK OF ELECTRICITY DISTRIBUTION



## Regulatory Framework

- Regulated by ANRE (Autoritatea Nationala de Reglementare in domeniul Energiei)
- Price cap (tariff basket) methodology
- Revenue = Controllable OPEX + non-controllable OPEX + Depreciation + Purchase of losses + Regulatory return on RAB + Working capital - Revenues from reactive energy - 50% gross profit from other activities
- Efficiency factor of 1.5% applied only to controllable OPEX
- Losses ( technical + commercial ) reduction program agreed with ANRE on voltage levels
- Possibility for annual corrections
- Investment plan – approved by ANRE before regulatory period starts, revision of investments carried out usually done at the end of the regulatory period.
- Regulatory return (WACC pre-tax real terms) equals to 7.7% starting 2015, it can be revised by ANRE during regulatory period
- Working capital is equal to regulated remuneration of 1/12 from total OPEX
- Distribution tariff growth capped in real terms at 10% yearly on voltage levels and at 7% yearly for average weighted distribution tariff in the third regulatory period

## Regulatory periods

- 3rd regulatory period Jan 1, 2014 – Dec 31, 2018

## Liberalization

- Complete removal of regulated prices for industrial consumers by end 2013, for residential consumers by end 2017
- Starting January 2018 the market is fully liberalized. Consumers who have not yet chosen their energy supplier in the free market are priced with a Last Resort Supplier tariff (endorsed by ANRE)
- A gradual transfer of household customers from tariffs to liberalised market is expected as the Last Resort Supplier tariffs are usually slightly higher than the end consumer tariffs offered by suppliers in the free market

# BULGARIA: REGULATORY FRAMEWORK OF ELECTRICITY DISTRIBUTION



## Regulatory Framework

- Regulated by EWRC (Energy and Water Regulatory Commission)
- The regulatory formula for distribution
  - Revenue cap = Costs + Regulatory return on RAB + Depreciation
  - Regulatory rate of return (WACC nominal, pre-tax) at 6.67% for the 5<sup>th</sup> regulatory period
  - Average values set for the NBV, depreciation and investments for the whole period
  - RAB set at EUR 300.5 mil. for the 5<sup>th</sup> regulatory period\*
  - Technological losses in 5<sup>th</sup> regulatory period set by regulator at 8%
  - Efficiency factor introduced in the 2<sup>nd</sup> regulatory period, not applied in the 5<sup>th</sup> regulatory period, yet. EWRC may apply it later.

## Regulatory periods

- 3<sup>rd</sup> regulatory period August 1, 2013 – July 31, 2015
- 4<sup>th</sup> regulatory period August 1, 2015 – June 30, 2018
- 5<sup>th</sup> regulatory period August 1, 2018 – June 30, 2021

## Unbundling & Liberalization

- Unbundling successfully completed by December 31, 2006
- Since July 2007, all consumers have the right to become eligible. Most of the household customers remain in universal service with regulated tariffs though
- Liberalization process and transfer of consumers to free market is partly restrained due to a limited scale of energy products provided by the Bulgarian energy exchange (IBEX)

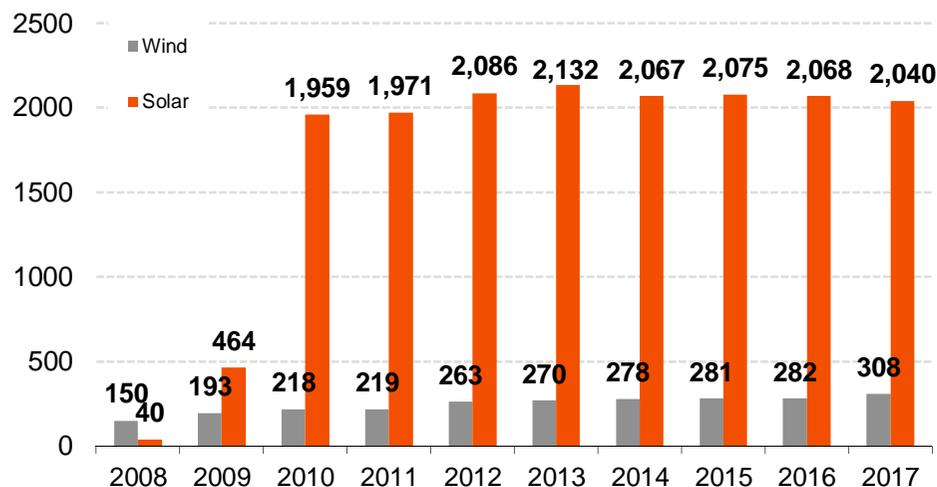
# CZECH REPUBLIC: RENEWABLES SUPPORT



2018 feed-in-tariffs (EUR per MWh)

	Plants commissioned in 2010	Plants commissioned in 2017
Solar <30 kW	551.2	0
Solar >30 kW	546.8	0
Wind	100.7	75.6

Installed capacity of wind and solar power plants in the Czech Republic (MWe)



- Operators of renewables can choose from two options of support:
  - Feed-in tariffs (electricity purchased by distributor)
  - Green bonuses (electricity sold on the market, bonuses paid by distributor, level of green bonuses is derived from feed-in tariffs)
- Feed-in tariffs are set by a regulator to ensure 15-year payback period. During operation of a power plant they are escalated by PPI index or by 2% at minimum and 4% at maximum.
- Support is provided for 20 years to solar, wind, pure biomass and biogas plants and for 30 years to hydro.
- Solar plants commissioned in 2014 or later do not receive any support.
- Solar plants put into operations in 2010 with capacity over 30kWp are obliged to pay 10% tax of revenues.

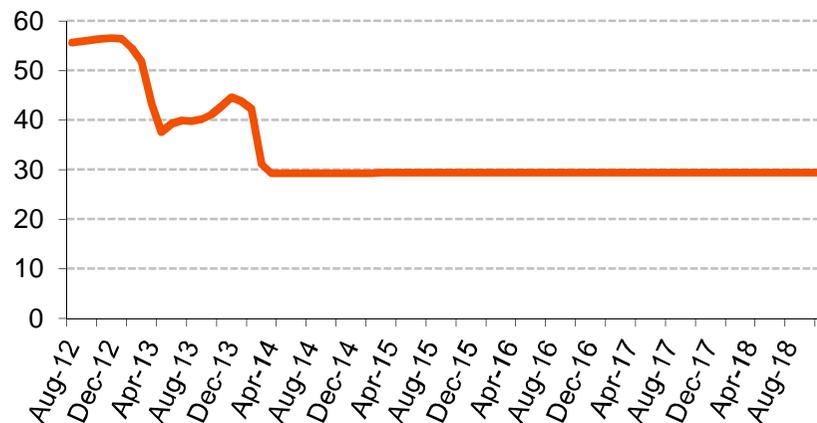
# ROMANIA: RENEWABLES SUPPORT

## UPDATE OF THE RULES ADOPTED IN 2017 SIGNIFICANTLY IMPROVES VISIBILITY OF FUTURE CASH FLOWS



- Two green certificates (GC) obtained by the producer for each MWh supplied from wind to the network until 2017, one GC from 2018 onwards, duration of support – 15 years.
- Legally set price for green certificate is EUR 29.4 – EUR 35 (adjusted in March 2017 from previous EUR 27 to EUR 55)
- In March 2017 the tradability of green certificates was extended – all certificates issued after 1st April 2017 are tradable until 31st March 2032 (originally the lifespan was limited to 12 months).
- The updated regulatory scheme assumes an obligation to buy a constant annual amount of green certificates for 15 years, starting Apr 1, 2017, so that all green certificates are absorbed at the end of the 15-year period

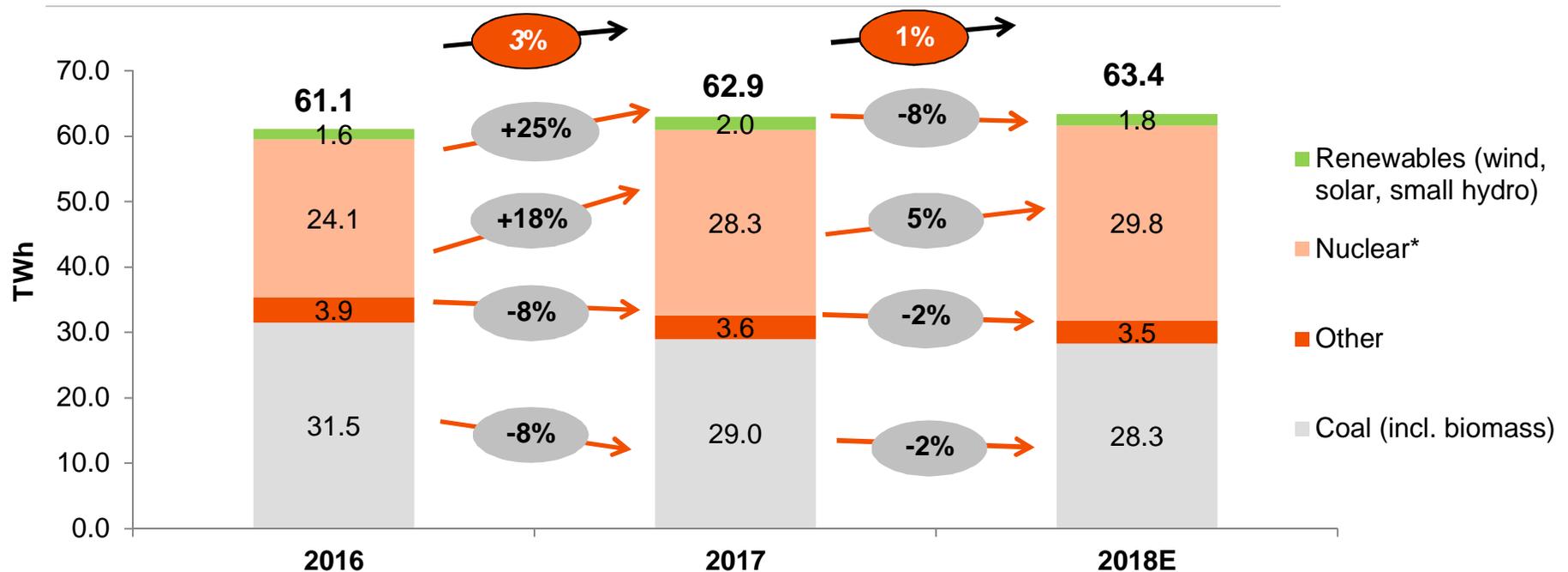
**Green certificates market clearing price (EUR/certificate)**



**Romanian year ahead electricity price (EUR/MWh)**



# 2017 GENERATION VOLUMES AFFECTED BY SHUTDOWNS IN NUCLEAR PLANTS, IN 2018 IMPROVEMENT IN NUCLEAR GENERATION EXPECTED



## 2017 volume trends

- + Shorter outages, especially at Temelín NPP
- + Operation of renewed Prunéřov 2 Power Plant
- + Operation of new Ledvice 4 Coal Power Plant
- Lower production from Coal Power Plants in Poland
- + Higher production from wind power plants in Romania and Germany

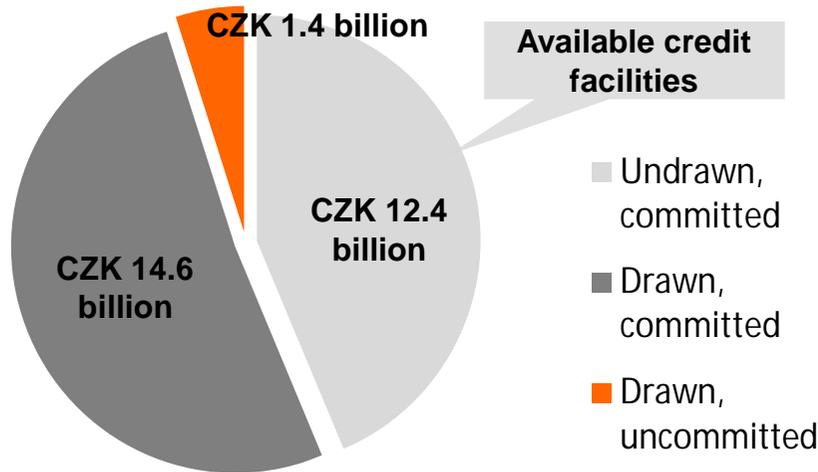
## 2018 volume trends

- + Optimization of outages in both nuclear power plants
- + Commercial operation of new Ledvice 4 coal power plant
- + Higher generation in Poland
- Shorter outages in Tušimice 2 power plant
- Lower generation in Dětmarovice, Prunéřov and Mělník

# CEZ GROUP MAINTAINS A STRONG LIQUIDITY POSITION

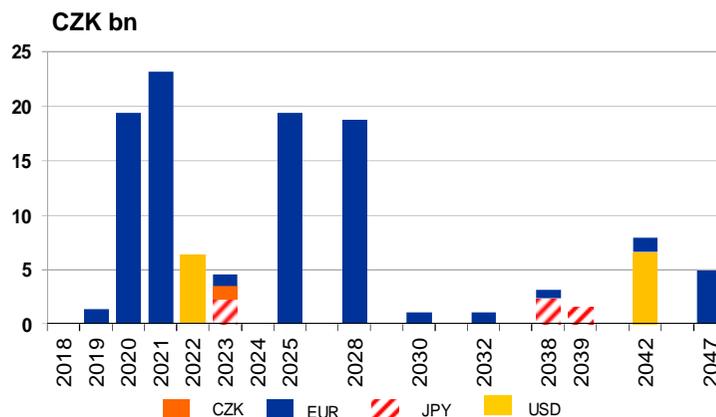


Utilization of Short-Term Lines (as at Sept 30, 2018)



- CEZ Group has access to CZK 27 billion in committed credit facilities, using CZK 14.6 billion as at Sept 30, 2018. Greater use of credit facilities is primarily related to higher margin deposits on commodity exchanges following a rise in electricity prices.

Bond Maturity Profile (as at Sept 30, 2018)



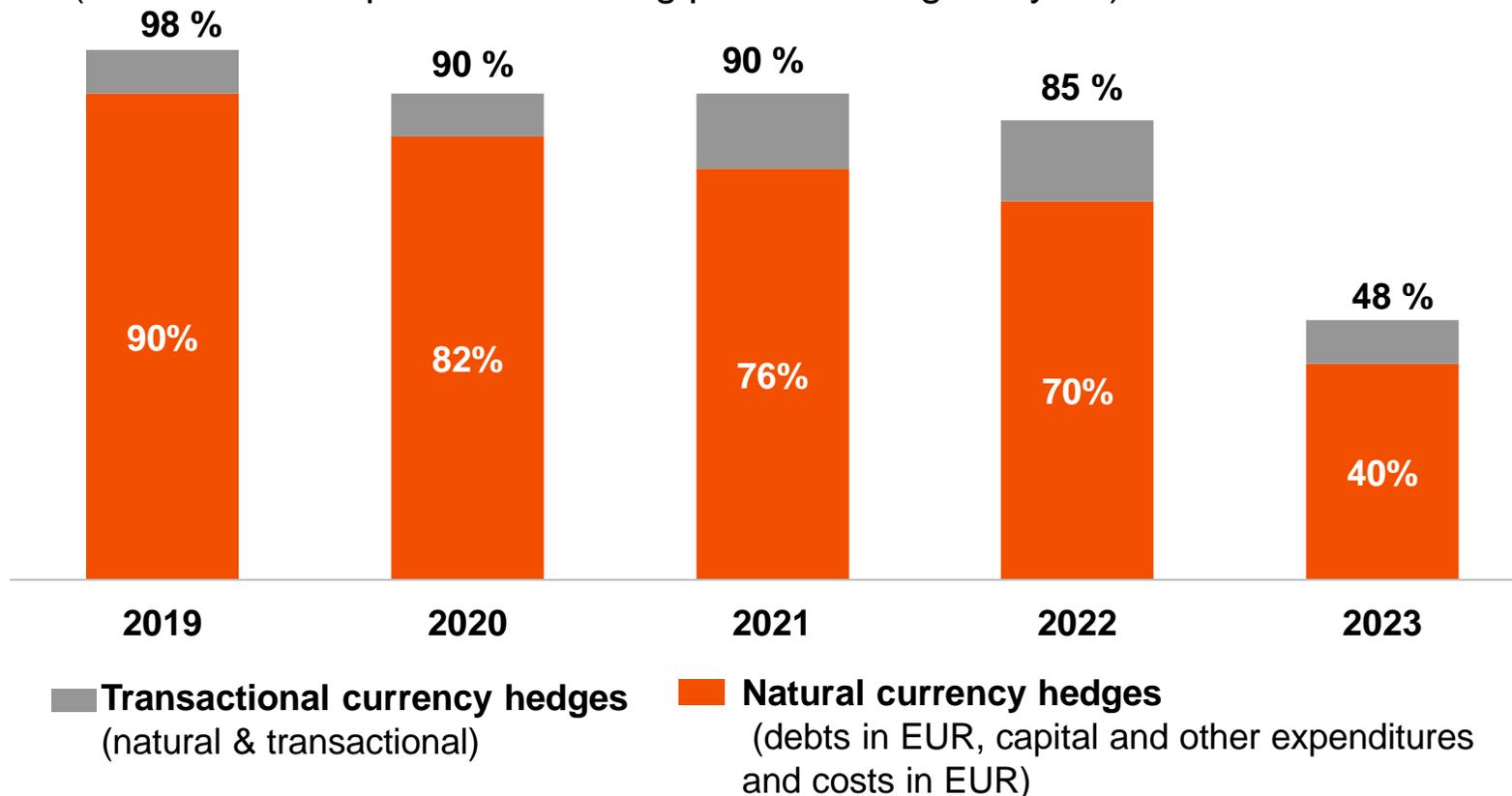
- Committed facilities are kept as a reserve for covering unexpected expenses and to fund short-term financial needs.
- The payment of dividends for 2017 (CZK 17.6 billion) began on August 1, 2018. 99% of the amount declared was paid as at Sept 30.

# ČEZ CONTINUES HEDGING ITS CURRENCY EXPOSURE IN LINE WITH STANDARD POLICY



## Total currency hedges as of Oct 31, 2018

(as % of total expected EUR long position in a given year)



The foreign exchange position for 2019 is hedged at an average rate of 26.7 CZK/EUR and the foreign exchange position for 2020–2023 is hedged at approx. 26–27 CZK/EUR on average.

# CEZ GROUP FINANCIAL AND OPERATING RESULTS



(CZK bn)		Q1 - Q3 2017	Q1 - Q3 2018	Change	%
Revenues		146.7	129.3	-17.4	-12%
Revenues - comparable *		124.7	129.3	+4.6	+4%
EBITDA		41.1	38.7	-2.4	-6%
EBIT		19.4	16.7	-2.7	-14%
Net income		16.6	9.1	-7.5	-45%
Net income - adjusted **		17.3	11.3	-6.0	-35%
Operating CF		36.2	36.5	+0.4	+1%
CAPEX		19.2	15.3	-4.0	-21%
Net debt ***		136.9	135.6	-1.3	-1%
		Q1 - Q3 2017	Q1 - Q3 2018	Change	%
Installed capacity ***	GW	15.5	15.0	-0.5	-3%
Generation of electricity - traditional energy	TWh	44.6	44.3	-0.3	-1%
Generation of electricity - new energy	TWh	1.4	1.3	-0.1	0%
Electricity distribution to end customers	TWh	38.3	38.4	+0.1	0%
Electricity sales to end customers	TWh	27.2	27.5	+0.3	+1%
Sales of natural gas to end customers	TWh	6.7	6.4	-0.3	-4%
Sales of heat	000 TJ	15.8	14.8	-1.1	-7%
Number of employees *** ****	000 's	29.3	30.9	+1.6	+5%

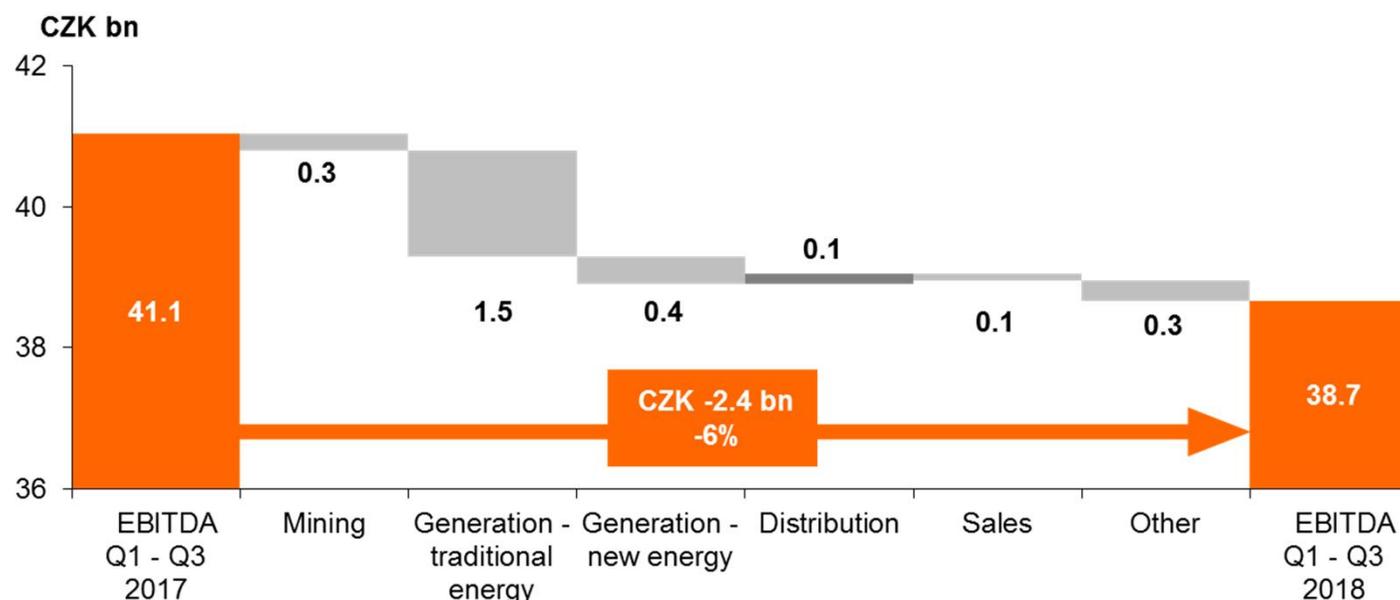
\* Comparison applying IFRS 15 (changing the method of reporting since Jan 1, 2018) to Q1–Q3 2017; in line with the standard, neither distribution revenue nor distribution costs are reported where the energy Group sells electricity in an area in which it does not own the distribution grid. The application of the standard significantly affects energy groups' total revenues and expenses (without affecting total reported profit).

\*\* Adjusted net income = Net income adjusted for extraordinary effects that are generally unrelated to ordinary financial performance in a given year (such as fixed asset impairments and goodwill write-offs)

\*\*\* On the last date of the period

\*\*\*\* The increase is primarily related to acquisitions of foreign ESCOs and the in-sourcing of external employees at sales companies in Czechia and Bulgaria

# YEAR-ON-YEAR CHANGE IN EBITDA BY SEGMENT



## Main causes of year-on-year change in Q1–Q3 EBITDA:

### Generation—Traditional Energy Segment (CZK -1.5 billion)

- Higher expenses on emission allowances for generation (CZK -1.3 billion)
- Effect of settlement agreement with Sokolovská uhelná in 2017 (CZK -0.7 billion)
- Higher generation at nuclear power plants (CZK +0.9 billion)

### Generation—New Energy Segment (CZK -0.4 billion)

- Lower allocation of green certificates to Romanian wind farms—only one certificate per generated MWh allocated since Jan 1, 2018; two certificates allocated in 2017 (CZK -0.6 billion)



## OTHER INCOME AND EXPENSES

(CZK bn)	Q1 - Q3 2017	Q1 - Q3 2018	Change	%
EBITDA	41.1	38.7	-2.4	-6%
<b>Depreciation, amortization and impairments*</b>	<b>-21.6</b>	<b>-22.0</b>	<b>-0.3</b>	<b>-1%</b>
<b>Other income (expenses)</b>	<b>0.0</b>	<b>-5.2</b>	<b>-5.2</b>	<b>-</b>
Interest income (expenses)	-2.5	-3.6	-1.1	-45%
Interest on nuclear and other provisions	-1.2	-1.3	-0.1	-11%
Income (expenses) from investments and securities	3.8	-0.5	-4.3	-
Other	0.0	0.3	+0.3	-
<b>Income taxes</b>	<b>-2.9</b>	<b>-2.4</b>	<b>+0.4</b>	<b>+15%</b>
Net income	16.6	9.1	-7.5	-45%
<b>Net income - adjusted</b>	<b>17.3</b>	<b>11.3</b>	<b>-6.0</b>	<b>-35%</b>

### Depreciation, Amortization, and Impairments\* (CZK -0.3 billion)

- Effect of non-recurrent income from sale of residential property in Prague in 2017 (CZK -1.1 billion)
- Additions to impairments of fixed assets and goodwill write-off (CZK -0.6 billion)
- Lower depreciation and amortization (CZK +1.4 billion), primarily due to updated long-term service life estimates of ČEZ power plants, which exceeded the effect of the start of depreciation of the new Ledvice facility after its completion at the end of 2017

### Other Income (Expenses) (CZK -5.2 billion)

- Effect of termination of MOL stockholding in 2017, including related operations (CZK -4.5 billion)
- Higher interest expenses (CZK -1.1 billion), primarily due to lower interest capitalization after completion of the new Ledvice facility
- Share in profit or loss of Turkish companies, incl. additions to provisions for potential partial obligation in case of claim of guarantee for Akcez group companies' loans due to sharp depreciation of TRY against USD (CZK -0.2 billion)
- Other effects (CZK -0.1 billion), primarily exchange rate differences
- Income from lost interest on refunded gift tax on emission allowances for 2011 and 2012 (CZK +0.7 billion)

### Net Income Adjustments

- Net income in Q1–Q3 2018 is adjusted for the negative effect of CEZ provisioning the value of which corresponds to potential partial obligation in case of claim of guarantee for Akcez group companies' loans due to continued weakening of the TRY/USD exchange rate in Q3 2018 reflecting Turkey's macroeconomic and political developments (CZK +1.4 billion) and for the negative effect of fixed asset impairments in Bulgaria (CZK +0.4 billion) and for negative effect of fixed asset impairments incl. Goodwill write-off in Czechia (CZK +0.4 billion)
- Net income in Q1–Q3 2017 is adjusted for the negative effect of partial goodwill write-off in Turkey (CZK +0.5 billion)\*\* and the negative effect of fixed asset impairments (CZK +0.2 billion) primarily in Poland

# NUCLEAR AND MINING PROVISIONS AS OF YE 2017



## Nuclear and mining provisions as of YE 2017 in accordance with IFRS

(discount rate 1.25% p.a. (real), est. Inflation effect 1.25%)

	Provision (CZK bn)	Responsibility of:	Cash cover (CZK)
Interim storage of spent nuclear fuel	7.6 bn	CEZ	0.01 bn
Permanent storage of spent nuclear fuel	33.2 bn	State*, costs paid by CEZ	Fee 55 CZK/MWh generated in NPP to Nuclear Account***
Nuclear Facility decommissioning	20.8 bn	CEZ	12.7 bn
Mining reclamation	7.9 bn	CEZ (SD**)	5.1 bn
Landfills (ash storage)	1.0 bn	CEZ	0.2 bn

\* RAWRA - Radioactive Waste Repository Authority

\*\*SD – Severočeské doly

\*\*\* Nuclear Account balance as of YE 2017 CZK 26.9bn

# SELECTED HISTORICAL FINANCIALS OF CEZ GROUP

## CZK



### Profit and loss

	<i>CZK bn</i>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<b>Revenues</b>		<b>198.8</b>	<b>209.8</b>	<b>221.9</b>	<b>216.7</b>	<b>201.8</b>	<b>210.2</b>	<b>203.7</b>	<b>201.9</b>
Sales of electricity		175.3	181.8	186.8	189.4	173.8	182.1	174.9	167.8
Heat sales and other revenues		23.6	28.0	35.1	27.4	27.9	28.1	28.8	30.8
<b>Operating Expenses</b>		<b>110.0</b>	<b>122.4</b>	<b>136.1</b>	<b>134.7</b>	<b>129.3</b>	<b>145.1</b>	<b>145.7</b>	<b>148</b>
Purchased power and related services		54.4	65.9	71.7	79.0	75.8	90.9	88.3	86.9
Fuel		16.9	17.1	15.8	13.8	12.7	13.1	13.2	12.7
Salaries and wages		18.7	18.1	18.7	18.7	18.9	17.8	19.2	22.1
Other		20.0	21.3	29.9	23.2	21.9	23.4	25.1	26.3
<b>EBITDA</b>		<b>88.8</b>	<b>87.4</b>	<b>85.8</b>	<b>82.0</b>	<b>72.5</b>	<b>65.1</b>	<b>58.1</b>	<b>53.9</b>
<i>EBITDA margin</i>		<i>45%</i>	<i>42%</i>	<i>39%</i>	<i>38%</i>	<i>36%</i>	<i>31%</i>	<i>29%</i>	<i>27%</i>
Depreciation, amortization, impairments		26.9	26.2	28.9	36.4	35.7	36.3	32.1	29.5
<b>EBIT</b>		<b>62.0</b>	<b>61.3</b>	<b>57.0</b>	<b>45.7</b>	<b>36.9</b>	<b>29.0</b>	<b>26.1</b>	<b>24.4</b>
<i>EBIT margin</i>		<i>31%</i>	<i>29%</i>	<i>26%</i>	<i>21%</i>	<i>18%</i>	<i>14%</i>	<i>13%</i>	<i>12%</i>
<b>Net Income</b>		<b>46.9</b>	<b>40.8</b>	<b>40.1</b>	<b>35.2</b>	<b>22.4</b>	<b>20.5</b>	<b>14.6</b>	<b>19</b>
<i>Net income margin</i>		<i>24%</i>	<i>19%</i>	<i>18%</i>	<i>16%</i>	<i>11%</i>	<i>10%</i>	<i>7%</i>	<i>9%</i>
<b>Adjusted net income</b>		<b>49.8</b>	<b>41.2</b>	<b>41.3</b>	<b>43.0</b>	<b>29.5</b>	<b>27.7</b>	<b>19.6</b>	<b>20.7</b>
<i>Adjusted net income margin</i>		<i>25%</i>	<i>20%</i>	<i>19%</i>	<i>20%</i>	<i>15%</i>	<i>13%</i>	<i>10%</i>	<i>10%</i>

### Balance sheet

	<i>CZK bn</i>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Non current assets		448.3	467.3	494.7	485.9	497.5	493.1	489.3	488
Current assets		96.1	131.0	141.1	154.5	130.4	109.6	141.6	138.3
- out of that cash and cash equivalents		22.2	22.1	18.0	25.0	20.1	13.5	11.2	12.6
<b>Total Assets</b>		<b>544.4</b>	<b>598.3</b>	<b>635.8</b>	<b>640.4</b>	<b>627.9</b>	<b>602.7</b>	<b>630.8</b>	<b>626.2</b>
Shareholders equity (excl. minority. int.)		221.4	226.8	250.2	258.1	261.3	267.9	256.8	250
<i>Return on equity</i>		<i>22%</i>	<i>18%</i>	<i>17%</i>	<i>14%</i>	<i>9%</i>	<i>8%</i>	<i>6%</i>	<i>8%</i>
Interest bearing debt		158.5	182.0	192.9	199.0	184.1	157.5	167.8	152.2
Other liabilities		164.4	189.4	192.6	183.3	182.4	177.3	206.2	224
<b>Total liabilities</b>		<b>544.4</b>	<b>598.3</b>	<b>635.8</b>	<b>640.4</b>	<b>627.9</b>	<b>602.7</b>	<b>630.8</b>	<b>626.2</b>

# SELECTED HISTORICAL FINANCIALS OF CEZ GROUP

## EUR



<b>Profit and loss</b>	<i>EUR M</i>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
<u>Revenues</u>		<u>7,796</u>	<u>8,227</u>	<u>8,702</u>	<u>8,498</u>	<u>7,914</u>	<u>8,243</u>	<u>7,988</u>	<u>7,918</u>
Sales of electricity		6,875	7,129	7,325	7,427	6,816	7,141	6,859	6,580
Heat sales and other revenues		925	1,098	1,376	1,075	1,094	1,102	1,129	1,208
<u>Operating Expenses</u>		<u>4,314</u>	<u>4,800</u>	<u>5,337</u>	<u>5,282</u>	<u>5,071</u>	<u>5,690</u>	<u>5,714</u>	<u>5,804</u>
Purchased power and related services		2,133	2,584	2,812	3,098	2,973	3,565	3,463	3,408
Fuel		663	671	620	541	498	514	518	498
Salaries and wages		733	710	733	733	741	698	753	867
Other		784	835	1,173	910	859	918	984	1,031
<b>EBITDA</b>		<b><u>3,482</u></b>	<b><u>3,427</u></b>	<b><u>3,365</u></b>	<b><u>3,216</u></b>	<b><u>2,843</u></b>	<b><u>2,553</u></b>	<b><u>2,278</u></b>	<b><u>2,114</u></b>
<i>EBITDA margin</i>		<i>45%</i>	<i>42%</i>	<i>39%</i>	<i>38%</i>	<i>36%</i>	<i>31%</i>	<i>29%</i>	<i>27%</i>
Depreciation, amortization, impairments		1,055	1,027	1,133	1,427	1,400	1,424	1,259	1,157
<b>EBIT</b>		<b><u>2,431</u></b>	<b><u>2,404</u></b>	<b><u>2,235</u></b>	<b><u>1,792</u></b>	<b><u>1,447</u></b>	<b><u>1,137</u></b>	<b><u>1,024</u></b>	<b><u>957</u></b>
<i>EBIT margin</i>		<i>31%</i>	<i>29%</i>	<i>26%</i>	<i>21%</i>	<i>18%</i>	<i>14%</i>	<i>13%</i>	<i>12%</i>
<b>Net Income</b>		<b><u>1,839</u></b>	<b><u>1,600</u></b>	<b><u>1,573</u></b>	<b><u>1,380</u></b>	<b><u>878</u></b>	<b><u>804</u></b>	<b><u>573</u></b>	<b><u>745</u></b>
<i>Net income margin</i>		<i>24%</i>	<i>19%</i>	<i>18%</i>	<i>16%</i>	<i>11%</i>	<i>10%</i>	<i>7%</i>	<i>9%</i>
<b>Adjusted net income</b>		<b><u>1,953</u></b>	<b><u>1,616</u></b>	<b><u>1,620</u></b>	<b><u>1,686</u></b>	<b><u>1,157</u></b>	<b><u>1,086</u></b>	<b><u>769</u></b>	<b><u>812</u></b>
<i>Adjusted net income margin</i>		<i>25%</i>	<i>20%</i>	<i>19%</i>	<i>20%</i>	<i>15%</i>	<i>13%</i>	<i>10%</i>	<i>10%</i>
<b>Balance sheet</b>									
	<i>EUR M</i>	<b>2,010</b>	<b>2,011</b>	<b>2,012</b>	<b>2,013</b>	<b>2,014</b>	<b>2,015</b>	<b>2,016</b>	<b>2,017</b>
Non current assets		17,580	18,325	19,400	19,055	19,510	19,337	19,188	19,137
Current assets		3,769	5,137	5,533	6,059	5,114	4,298	5,553	5,424
- out of that cash and cash equivalents		871	867	706	980	788	529	439	494
<b>Total Assets</b>		<b><u>21,349</u></b>	<b><u>23,463</u></b>	<b><u>24,933</u></b>	<b><u>25,114</u></b>	<b><u>24,624</u></b>	<b><u>23,635</u></b>	<b><u>24,737</u></b>	<b><u>24,557</u></b>
Shareholders equity (excl. minority. int.)		8,682	8,894	9,812	10,122	10,247	10,506	10,071	9,804
<i>Return on equity</i>		<i>22%</i>	<i>18%</i>	<i>17%</i>	<i>14%</i>	<i>9%</i>	<i>8%</i>	<i>6%</i>	<i>8%</i>
Interest bearing debt		6,216	7,137	7,565	7,804	7,220	6,176	6,580	5,969
Other liabilities		6,447	7,427	7,553	7,188	7,153	6,953	8,086	8,784
<b>Total liabilities</b>		<b><u>21,349</u></b>	<b><u>23,463</u></b>	<b><u>24,933</u></b>	<b><u>25,114</u></b>	<b><u>24,624</u></b>	<b><u>23,635</u></b>	<b><u>24,737</u></b>	<b><u>24,557</u></b>

Exchange rate used:  
25.5 CZK/EUR

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