



Konference „100 let proměn české a slovenské energetiky“  
**ZDROJOVÁ PŘIMĚŘENOST VS.  
REGULACE**

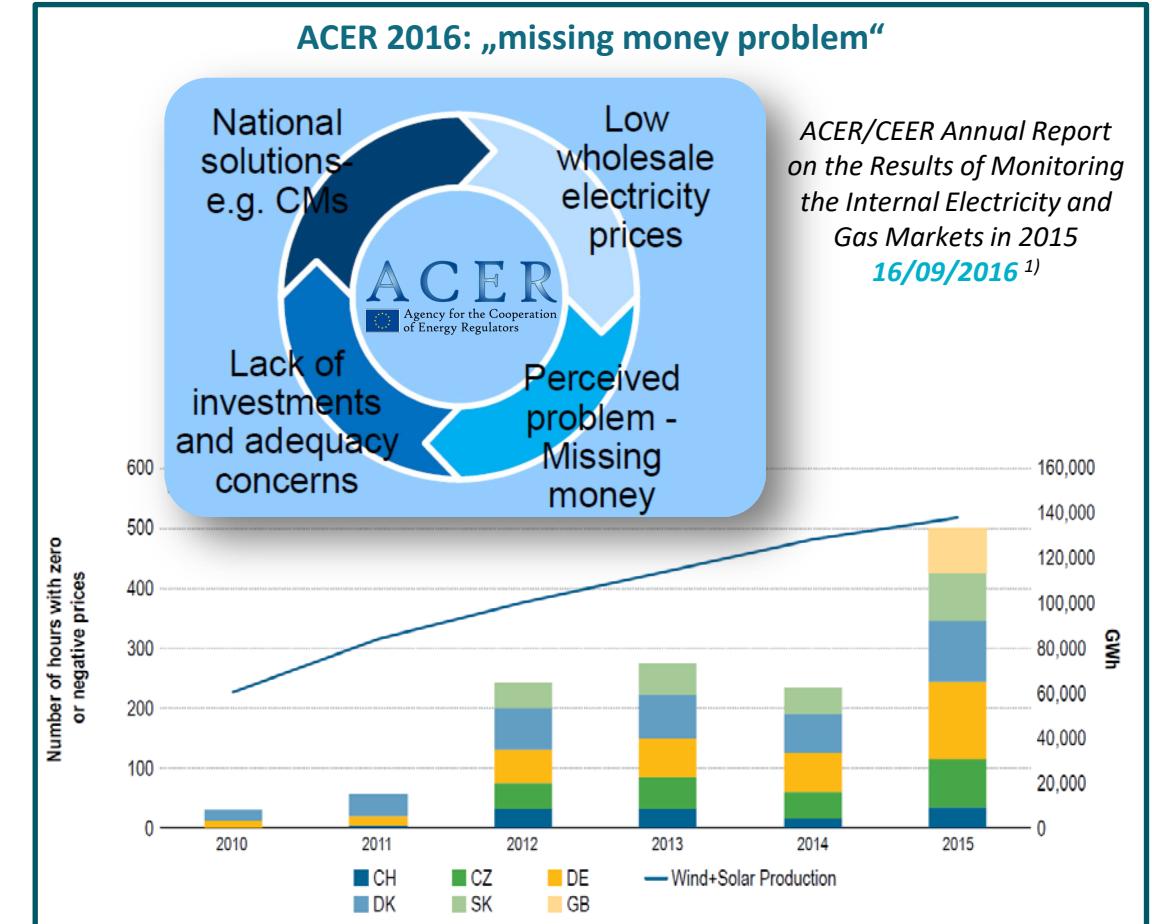
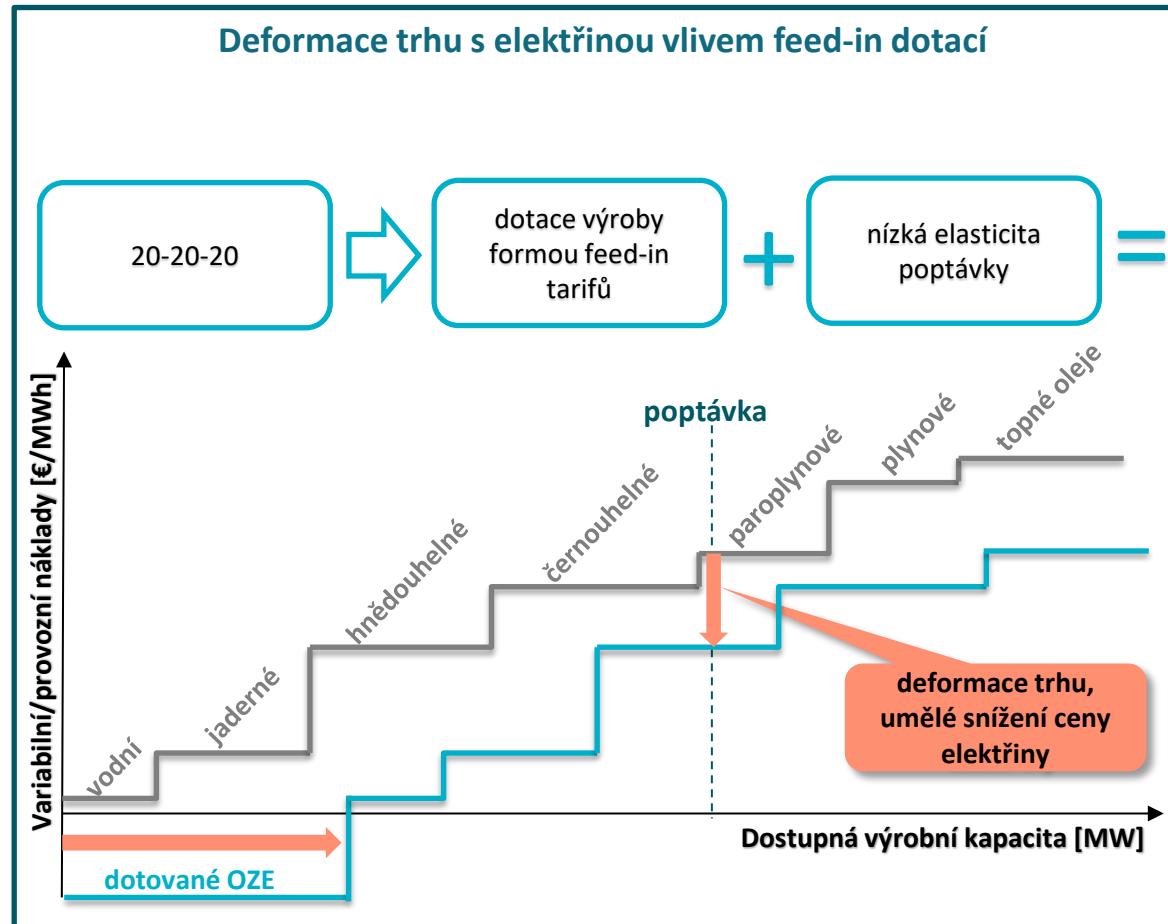


**Indra**

22. 3. 2018  
Richard Kabele

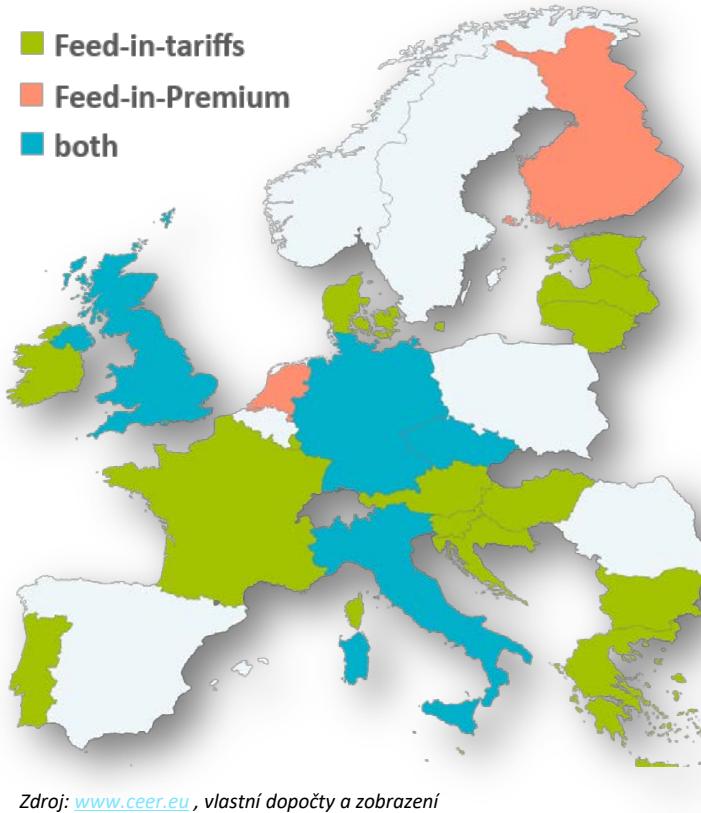
# REGULACE A DEFORMACE TRHU S ELEKTŘINOU

„If it moves, tax it. If it keeps moving, regulate it. If it stops moving, subsidize it.“  
Ronald Reagan



1) [https://www.acer.europa.eu/Official\\_documents/Acts\\_of\\_the\\_Agency/Publication/ACER\\_Market\\_Monitoring\\_Report\\_2015.pdf](https://www.acer.europa.eu/Official_documents/Acts_of_the_Agency/Publication/ACER_Market_Monitoring_Report_2015.pdf)

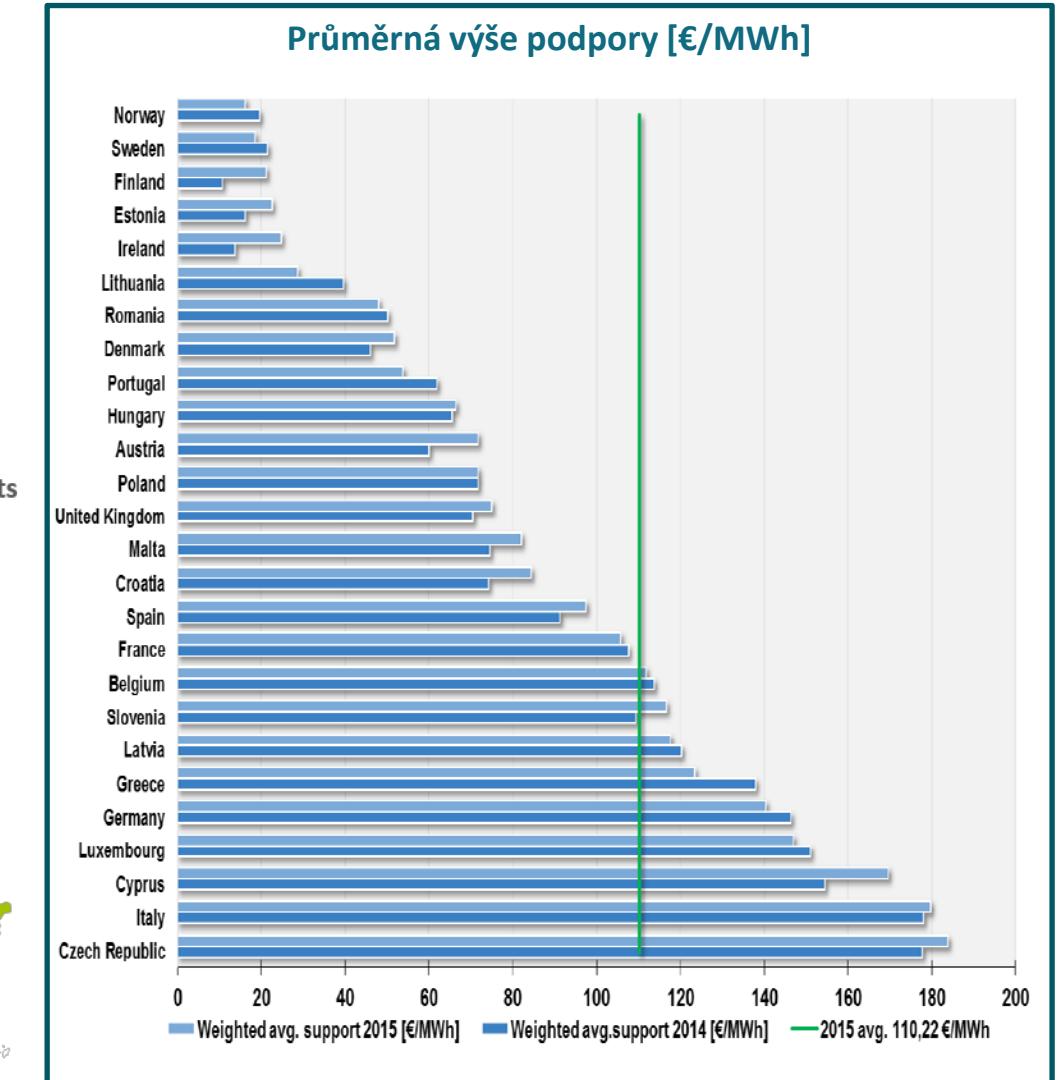
# FEED-IN TARIFY A PŘÍMÉ PROVOZNÍ DOTACE PO CELÉ EVROPĚ



Zdroj: [www.ceer.eu](http://www.ceer.eu), vlastní dopočty a zobrazení

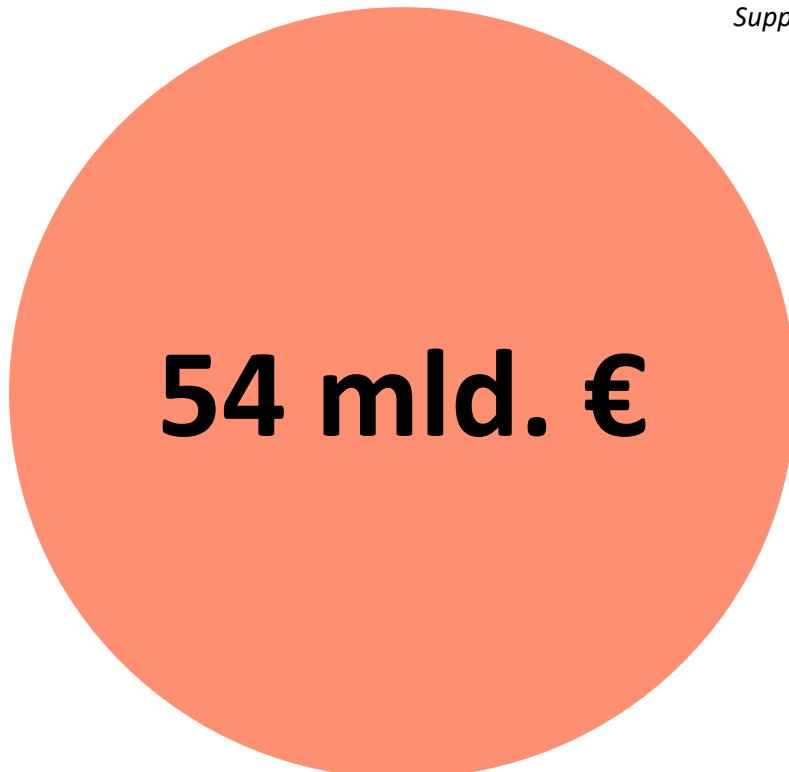


Status Review of Renewable Support Schemes in Europe  
11/04/2017<sup>2)</sup>

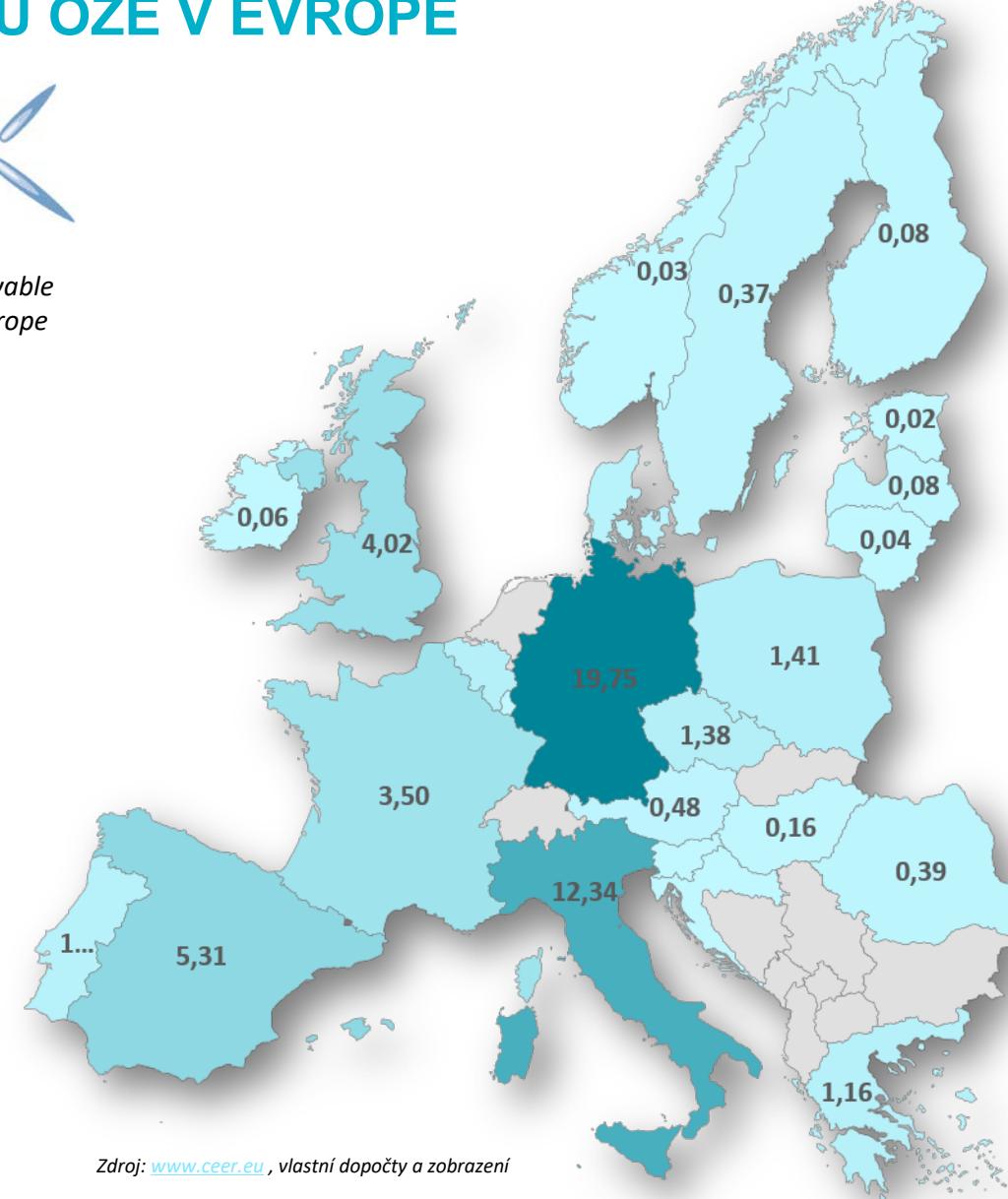


2) <https://www.ceer.eu/documents/104400/-/-41df1bfe-d740-1835-9630-4e4cccaf8173>

# CELKOVÉ ROČNÍ NÁKLADY NA PODPORU OZE V EVROPĚ



*Status Review of Renewable  
Support Schemes in Europe*  
11/04/2017<sup>2)</sup>



Zdroj: [www.ceer.eu](http://www.ceer.eu), vlastní dovočky a zobrazení

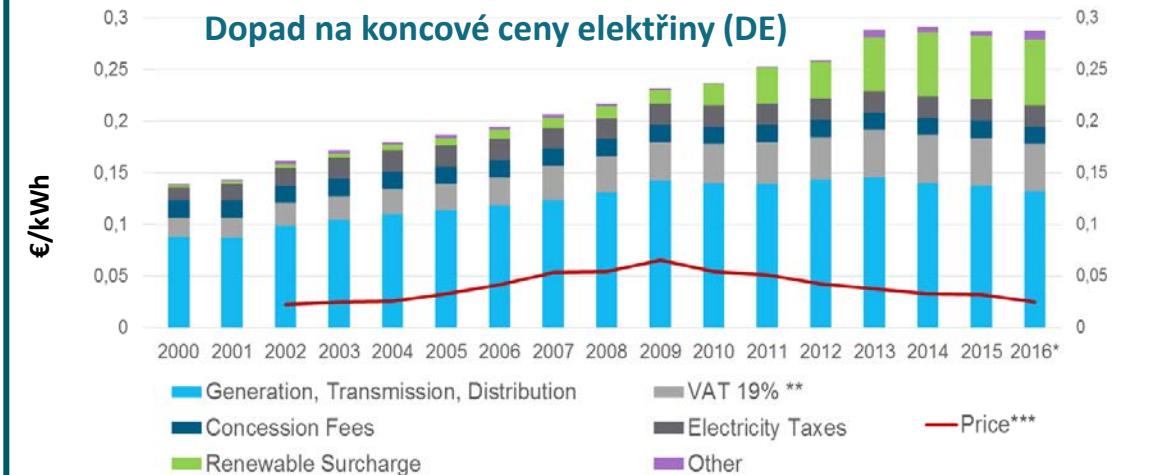
# ENERGIEWENDE V ČÍSLECH

Energiewende

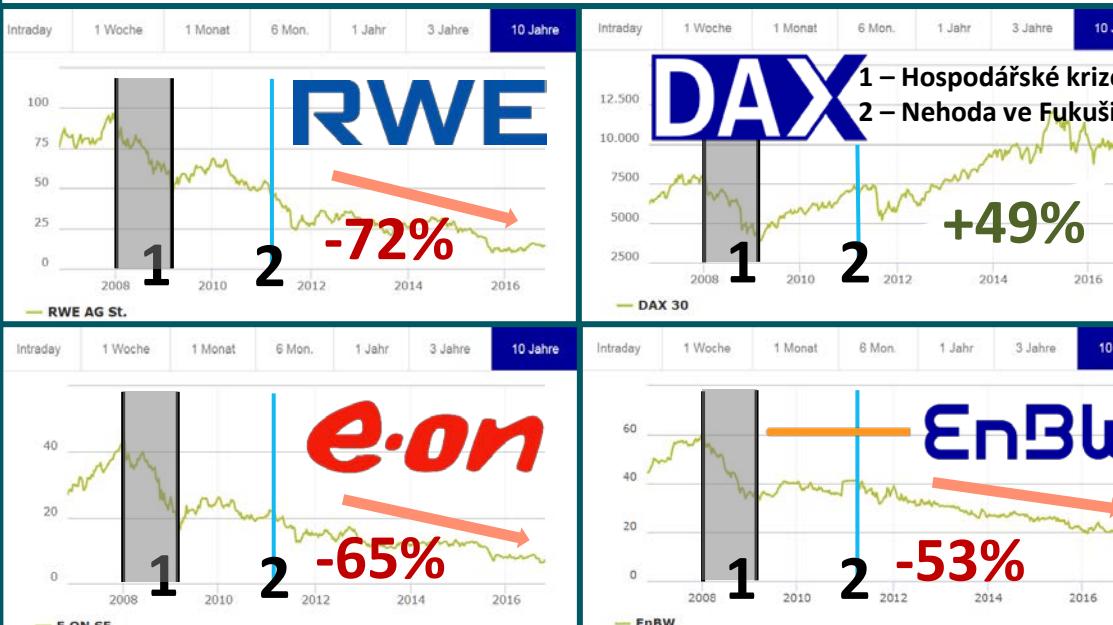


— průměrná cena EPEX DAH — teoretická cena — dotace OZE vztažené na výrobu

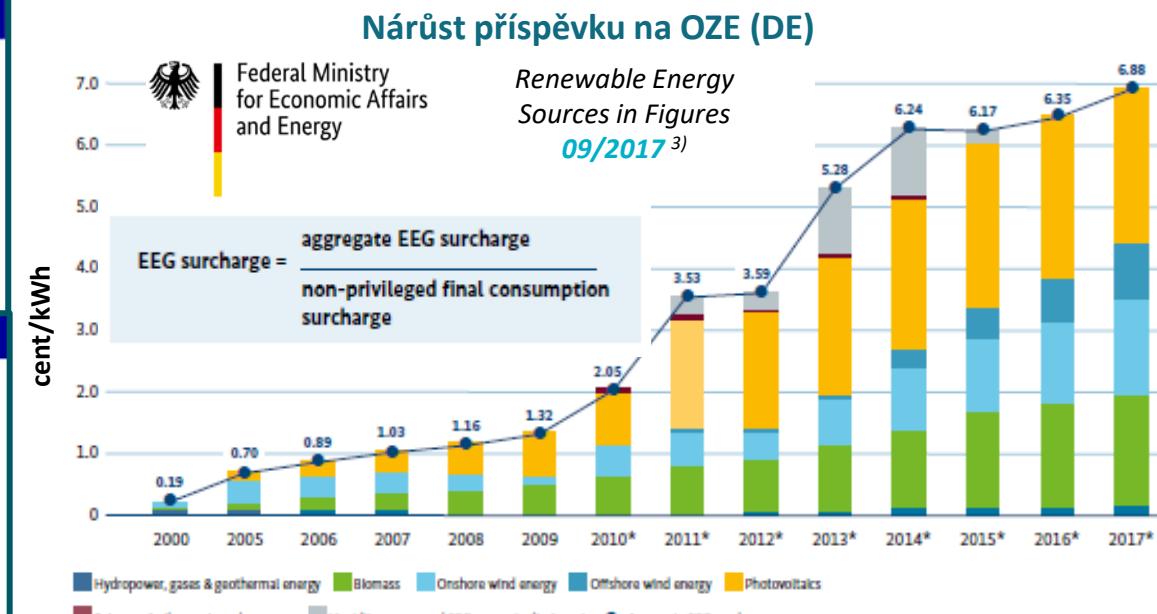
Zdroj: Status Review of Renewable Support Schemes in Europe 11/04/2017 [https://www.ceer.eu/eer\\_publications](https://www.ceer.eu/eer_publications), <https://www.eex.com/en/>, vlastní výpočty



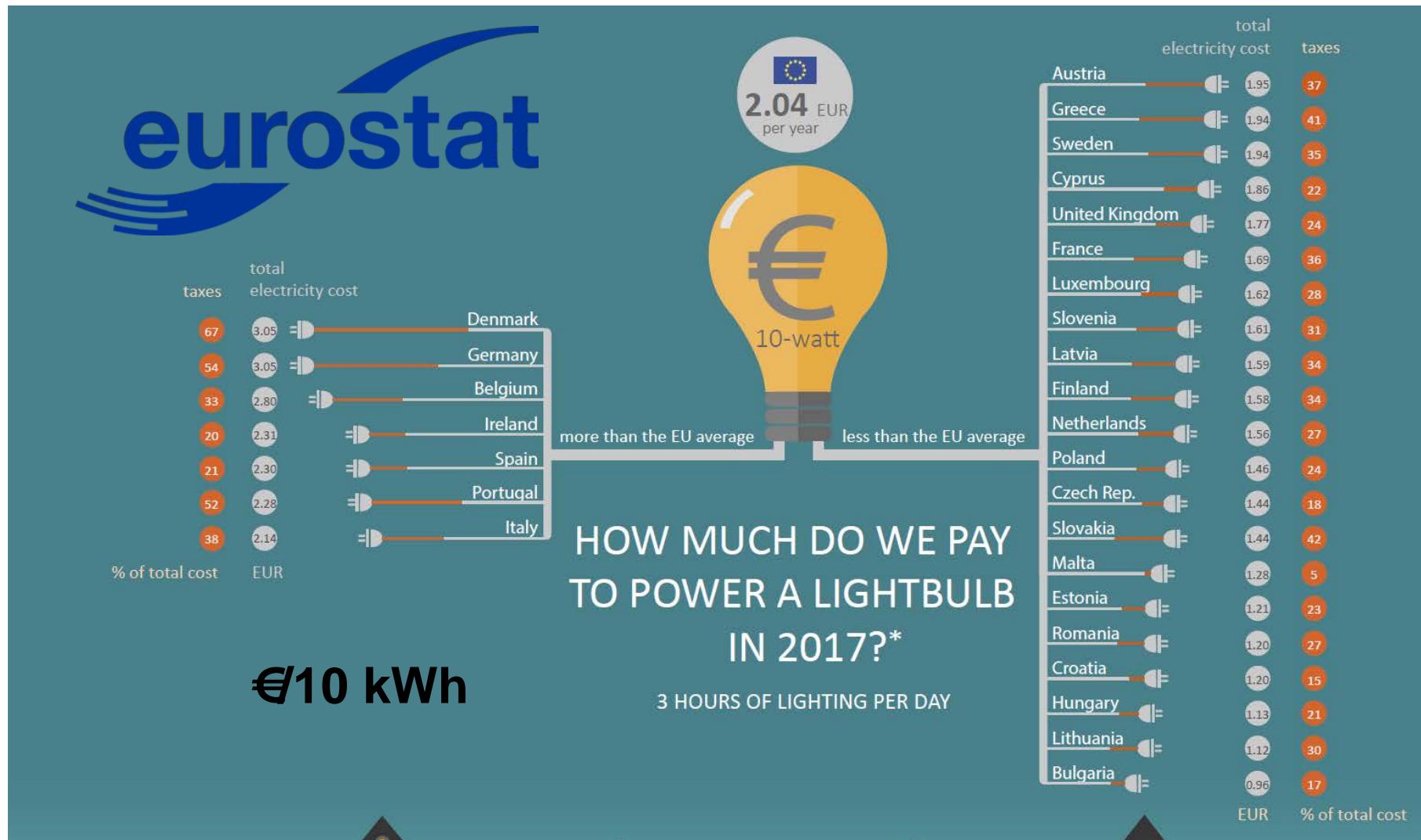
Zdroj: BDEW, Moody's, University of Oxford (Electricity markets are broken – can they be fixed?), <https://www.eex.com/en/>, vlastní výpočty



Zdroj: [www.boerse-frankfurt.de](https://www.boerse-frankfurt.de)



# CENY ELEKTŘINY PRO DOMÁCNOSTI V EU



## Porovnání cen pro domácnosti ČR a DE

ČR: 3,79 Kč/kWh\*

DE: 8,03 Kč/kWh\*

**DE/CZ:**

**2,1x**

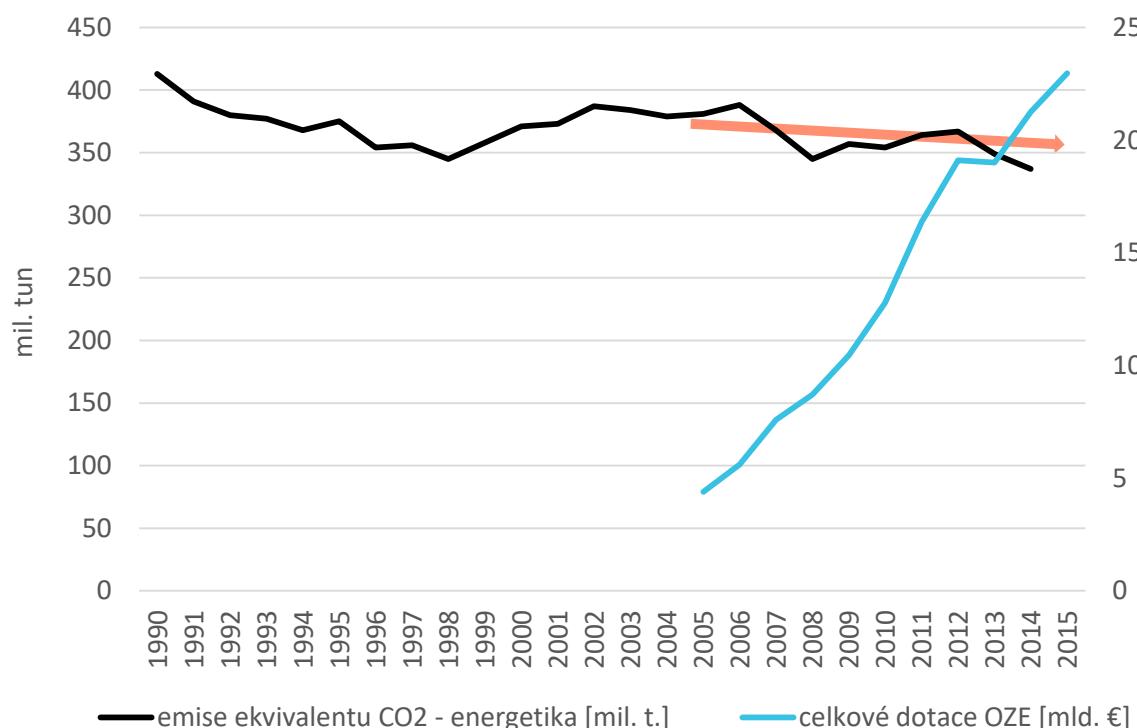
# O KOLIK BY BYLO TRŽNÍ ŘEŠENÍ POSTAVENÉ NA EU ETS LEVNĚJŠÍ?



*„The problem with socialism is that eventually you run out of other people's money.“*

Margaret Thatcher

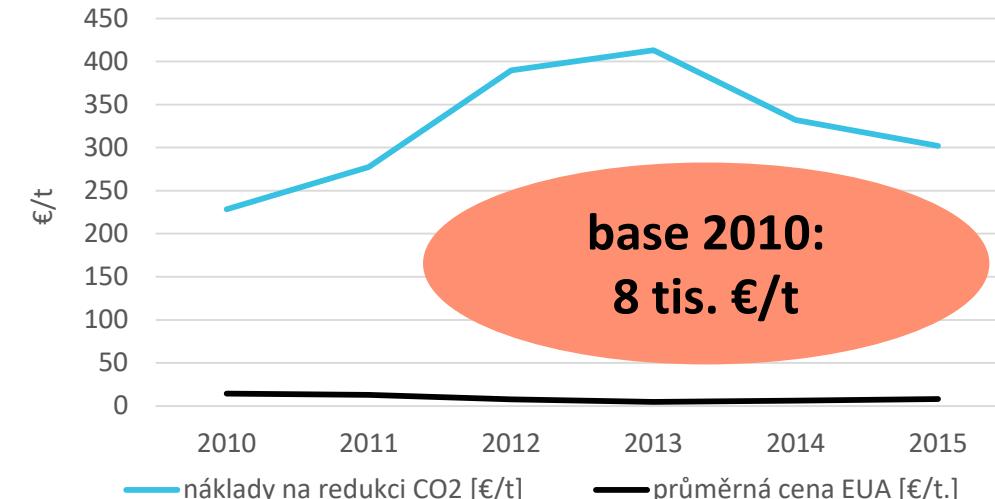
Korelace mezi vynaloženými náklady na podporu OZE a snížením emisí ekvivalentu CO<sub>2</sub> v sektoru energetiky (DE)



Zdroje:

- 1) CEW, <https://www.cleanenergywire.org/factsheets/germanys-greenhouse-gas-emissions-and-climate-targets>
- 2) CEER, <https://www.ceer.eu/documents>
- 3) Eurostat, <http://ec.europa.eu/eurostat/data/database>
- 4) EEX, <https://www.eex.com/en/>
- 5) sandbag, <https://sandbag.org.uk/wp-content/uploads/2017/03/Prices-in-the-EUETS-Sandbag.pdf>

Porovnání jednotkových nákladů na snížení emisí o tunu CO<sub>2</sub> ekvivalentu v energetice s EU ETS, base rok 1991 (DE)



BNetzA

#### Energy generating facilities (as of 02 February 2018)

Total net nominal capacity: Of which participating in the electricity market

**207.9 GW** **197.5 GW**

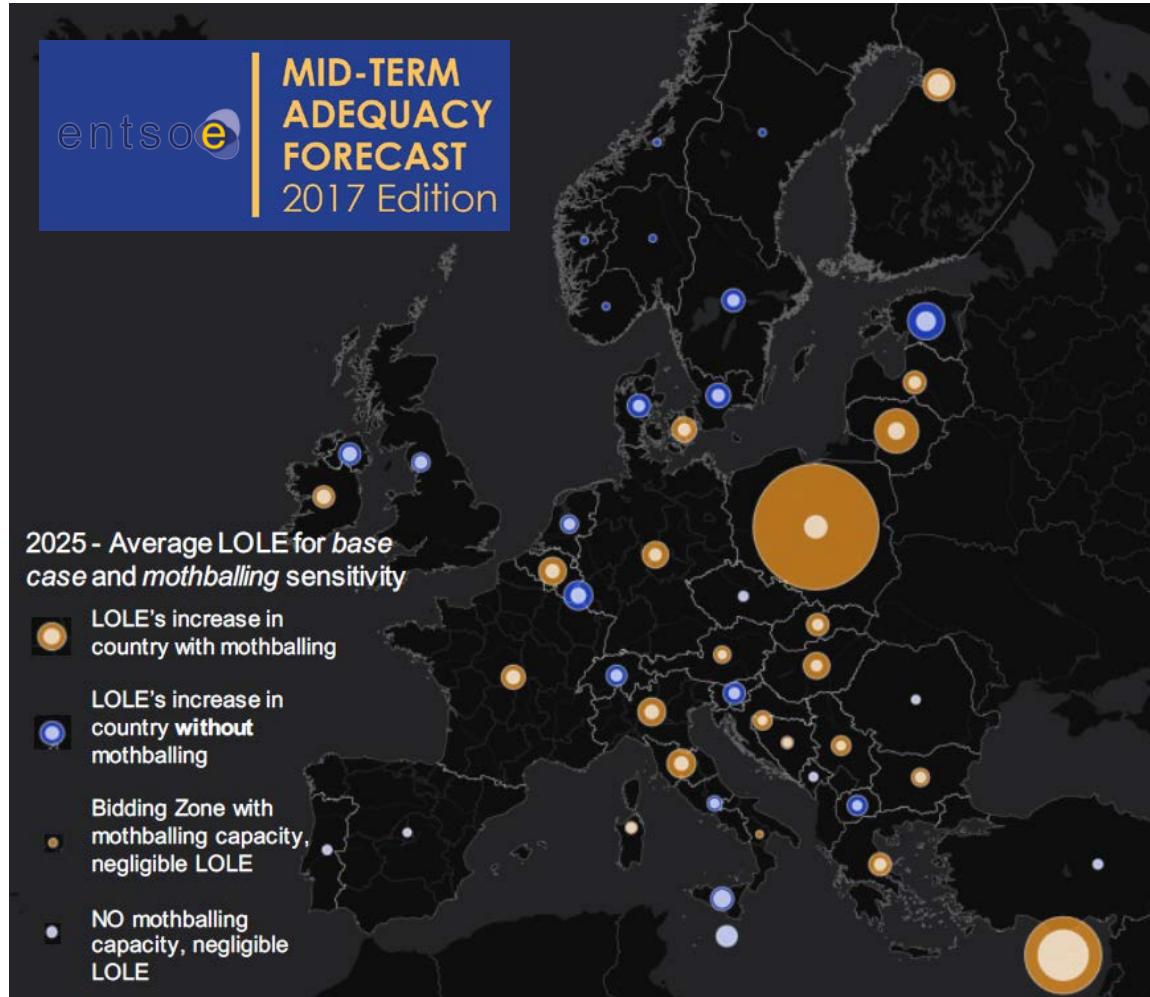
Of which renewable energy sources: Of which eligible for payment under the EEG:

**104.5 GW** **99.7 GW**

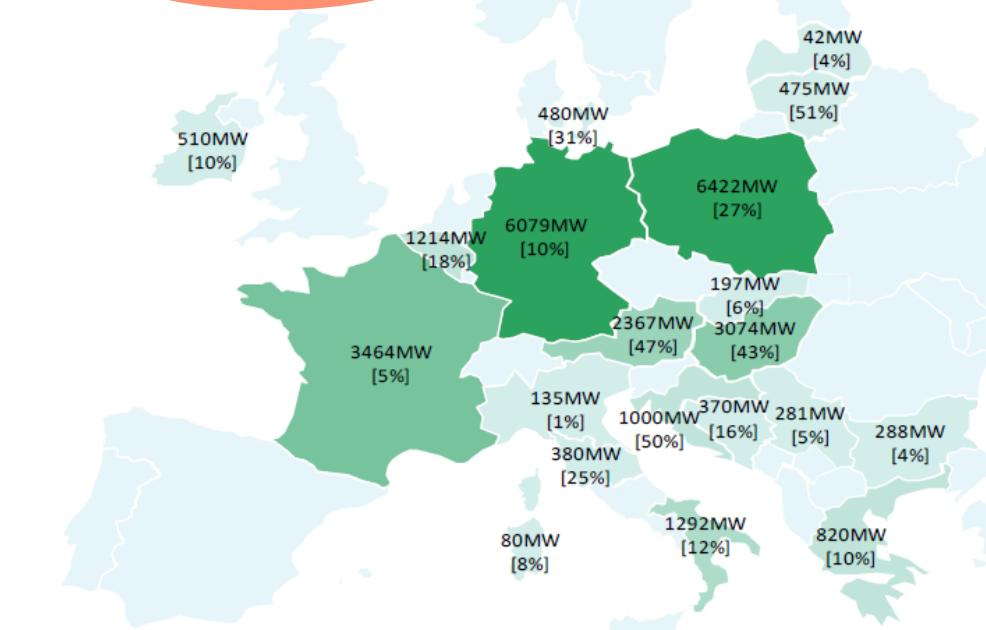
Zdroj:  
[https://www.bundesnetzagentur.de/EN/Areas/Energy/Companies/SecurityOfSupply/GeneratingCapacity/PowerPlantList/PubliPowerPlantList\\_node.html](https://www.bundesnetzagentur.de/EN/Areas/Energy/Companies/SecurityOfSupply/GeneratingCapacity/PowerPlantList/PubliPowerPlantList_node.html)

## „MOTHBALLING“ PODLE ENTSO-E

Definice: „mothballing could be expected in the absence of a capacity market and/or unfavourable market conditions (such as the ‘missing money’ problem)“



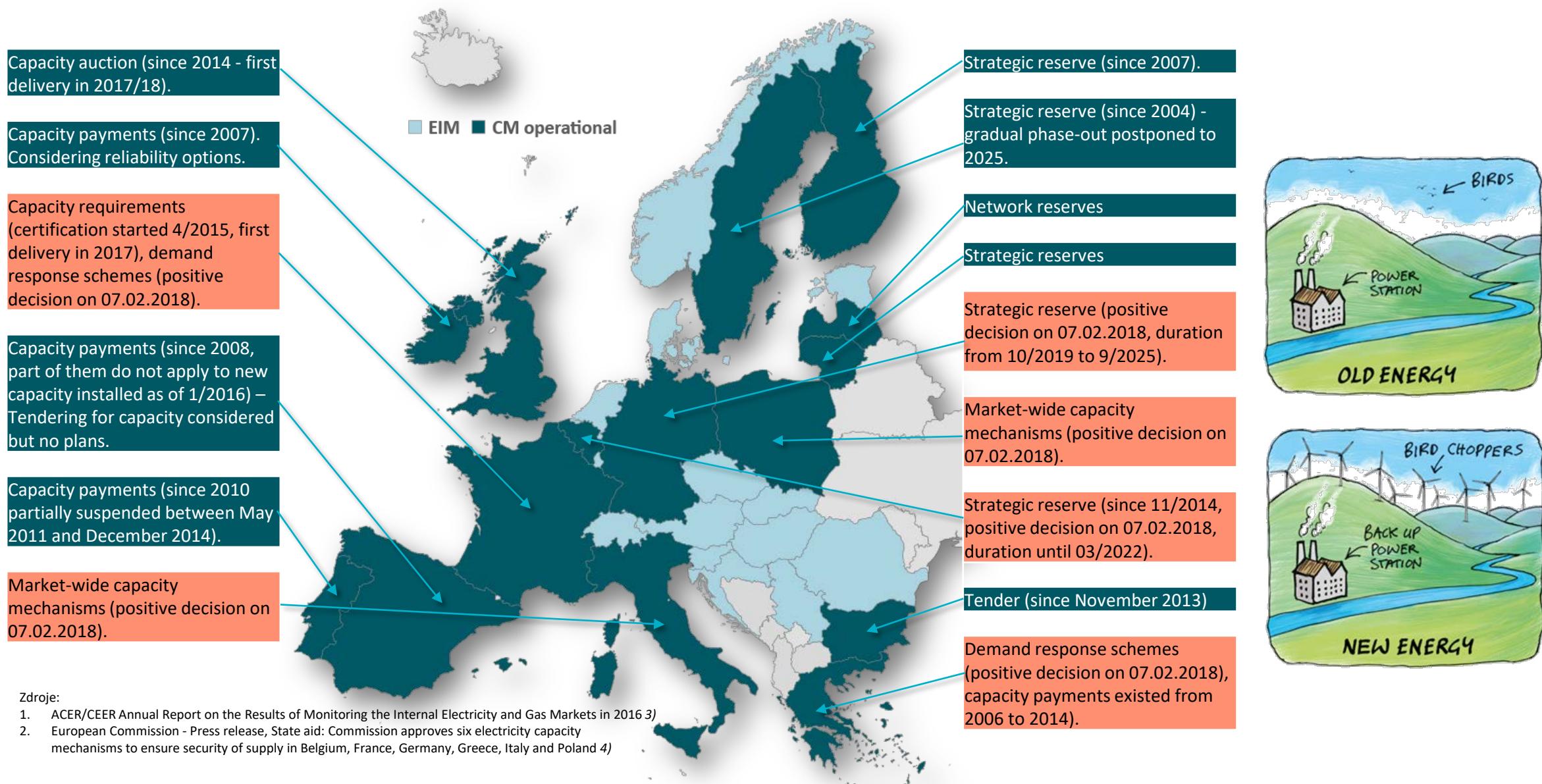
„Mothballing in 45% of the countries significantly impacts adequacy in 82% of the countries“



Generation Capacity at risk of being mothballed, absolute [MW] and relative [% of the 2025 total thermal generation capacity]



# KAPACITNÍ MECHANISMY – NUTNOST NEBO DALŠÍ DEFORMACE TRHU?



# EVROPSKÁ LEGISLATIVA – CENTRALIZACE, UNIFIKACE A SDÍLENÍ VÝHOD, NEVÝHOD A RIZIK

## Sjednocená cena odchylky v EU?

(EU) 2017/2195 guideline on electricity balancing

- Article 30, 1. By one year after the entry into force of this Regulation, all TSOs shall develop a proposal for a methodology to determine prices for the balancing energy ...  
Such methodology shall: (a) be **based on marginal pricing** (pay-as-cleared); ...

„The EU is a classic Utopian project, a monument to the vanity of intellectuals, a programme whose inevitable destiny is failure.“

Margaret Thatcher

## Využití přenosové kapacity pro výměnu podpůrných služeb

(EU) 2017/2195 guideline on electricity balancing

- Article 40, 1. By two years after entry into force of this Regulation, all TSOs shall develop a proposal for a methodology for a co-optimised allocation process **of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves**. Article 41 ... market-based allocation process ... ; Article 42 ... allocation process based on economic efficiency analysis ...

## Regional Security Coordinators

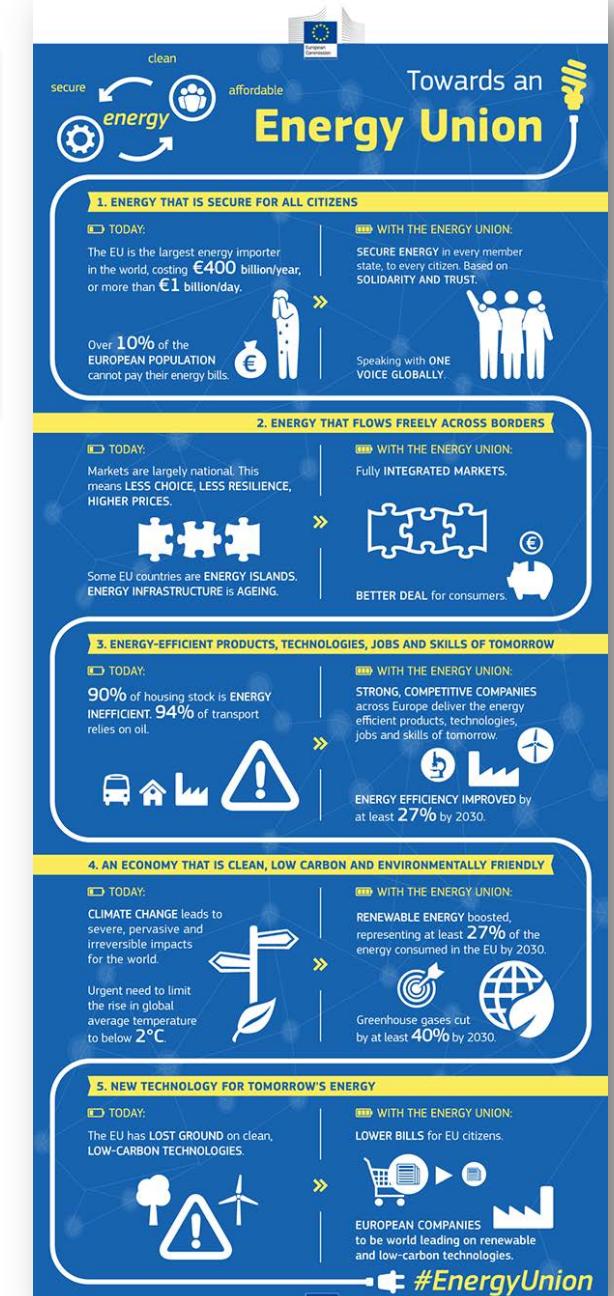
Proposal for a recast of (EU) 2009/714 on the internal market for electricity as part of the 'Clean Energy for all Europeans'

- Article 32, Establishment and mission of Regional Security Coordinators  
2. **Regional Security Coordinators shall be established in the system operation region** where it will carry out its tasks ...

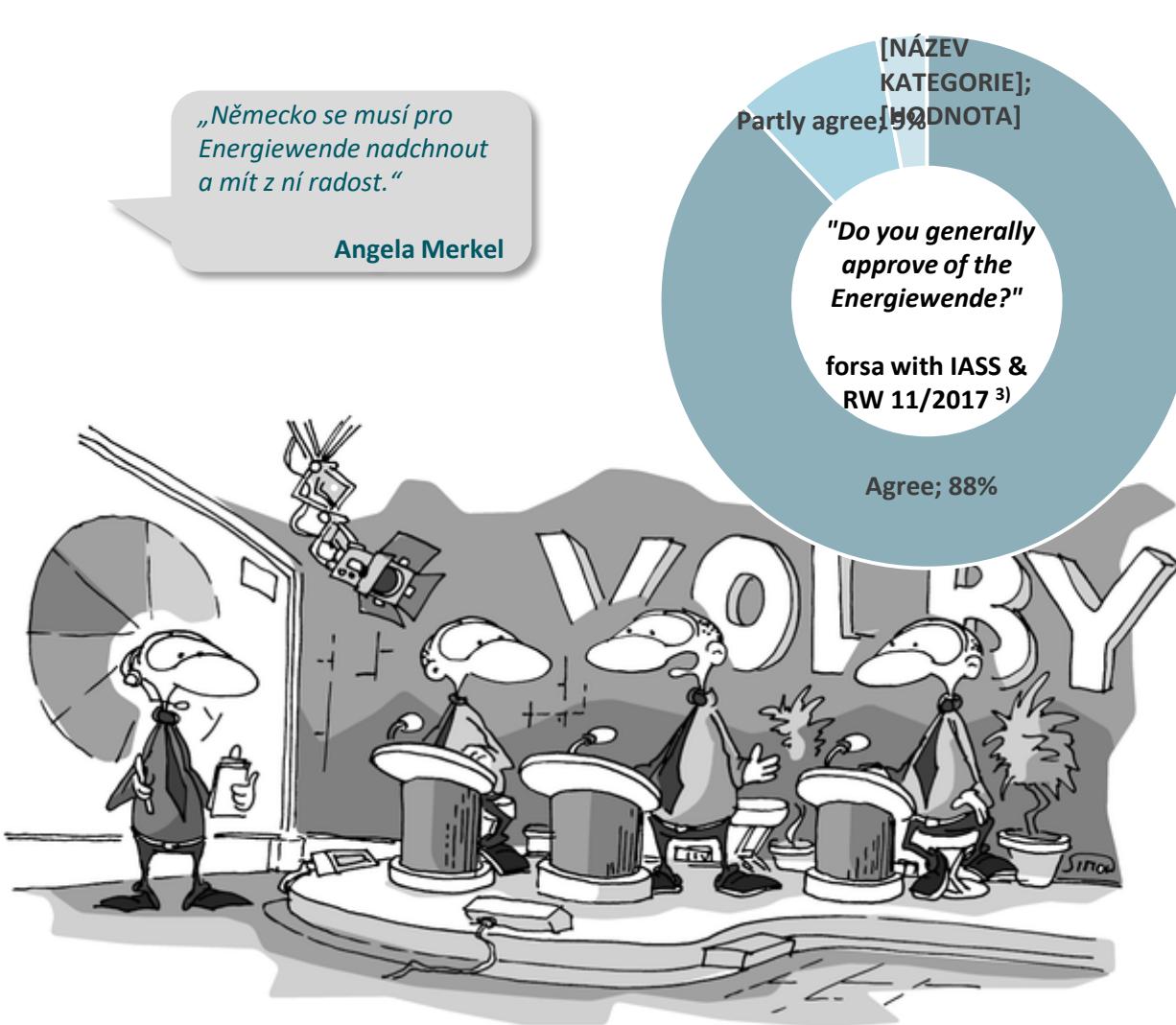
## Možnost omezení importů/exportů v případě nouze?

Proposal for a recast of (EU) 2005/89 on risk-preparedness in the electricity sector as part of the 'Clean Energy for all Europeans'

- Article 15, Observance of market rules  
3. Transaction curtailment including curtailment of already allocated cross-zonal capacity, **limitation of provision of cross-zonal capacity for capacity allocation or limitation of provision of schedules** shall only be initiated in compliance with the rules laid down in Article 14(2) of Electricity Regulation [proposed Electricity Regulation] and the rules adopted to specify this provision.



# CO MAJÍ SPOLEČNÉHO IMIGRAČNÍ A ENERGETICKÁ POLITIKA EU?



Ano, že naš program jsou jen populistická klíšé a nesplnitelné sliby, to pozná každý, kdo má alespoň půl mozku. Ale to není naše cílová skupina.

„Nejlepší argument proti demokracii je pětiminutový rozhovor s průměrným voličem.“

Winston Churchill

## Doporučení?

- přizpůsobit se
- prosazování menší míry centralizace, zachování národních kompetencí
- zachování soběstačnosti ve výrobě elektřiny, (?) zavedení kapacitního mechanismu
- publikovat a vysvětlovat
- posílení spolupráce v rámci V4, případně 4M (+ Rumunsko)



# Q & A

Prievozska 4D, blok A  
821 09 Bratislava  
T +421 2 58229111  
F +421 2 58229112

Karolinská 650/1  
186 00 Praha 8  
Czech Republic  
T +420 246 085 700  
F +420 246 085 700

Avda. de Bruselas 35  
28108 Alcobendas,  
Madrid  
Spain  
T +34 91 480 50 00  
F +34 91 480 50 80  
[www.indracompany.com](http://www.indracompany.com)

**Richard Kabele**

[richard.kabele@outlook.com](mailto:richard.kabele@outlook.com)