# Political economy of climate change in Central and Eastern Europe

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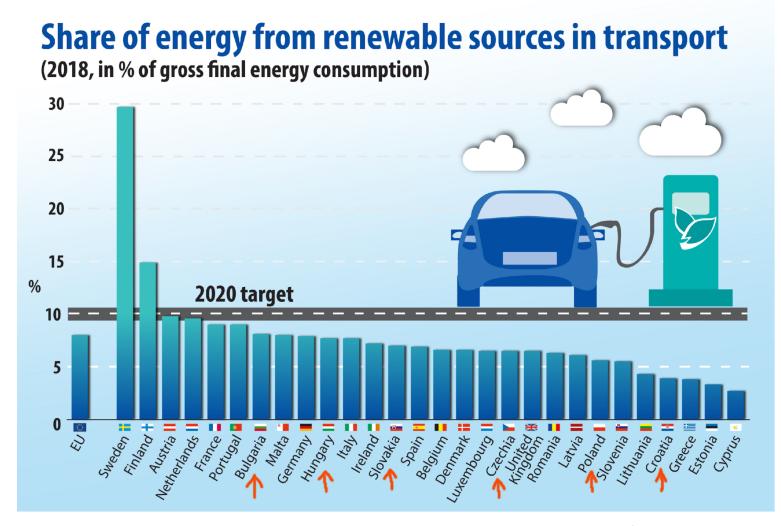
Joint Vienna Institute, May 6, 2021

## Agenda

- Deployment of renewables: How does CEE\* compare to the rest of the EU?
- •EU policies as a major driver and voting patterns of CEE countries
- National political-economic determinants of energy transition
- Key lessons and insights for the future

\* Visegrad + RO, BG, HR

### Transport: Not all CEEs are laggards



ec.europa.eu/eurostat

### Solar and wind: Not all CEEs are laggards

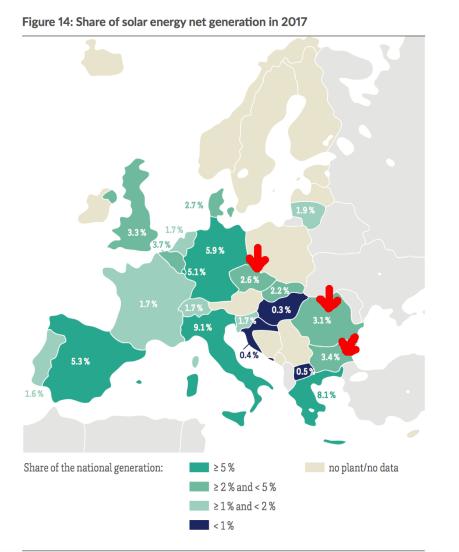
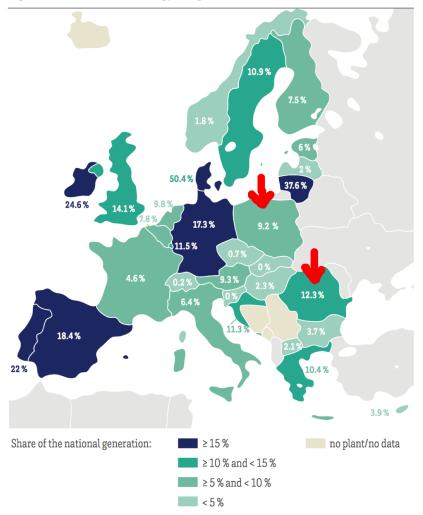
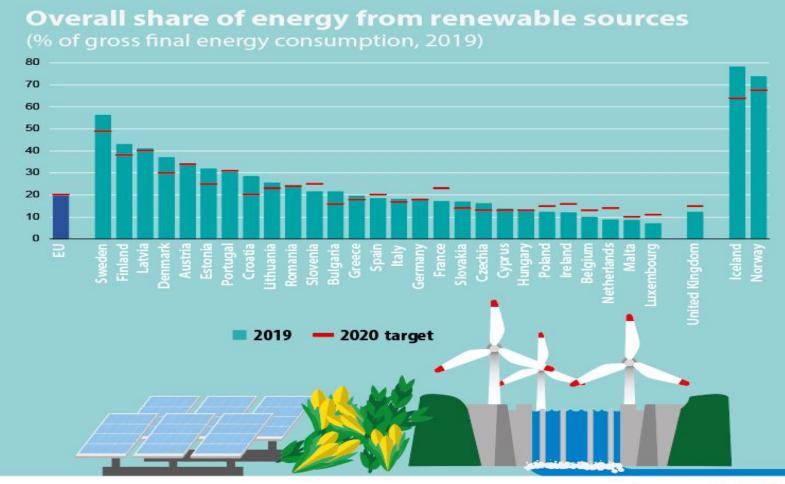


Figure 12: Share of wind energy net generation in 2017



Source: ENTSO-E (2017)

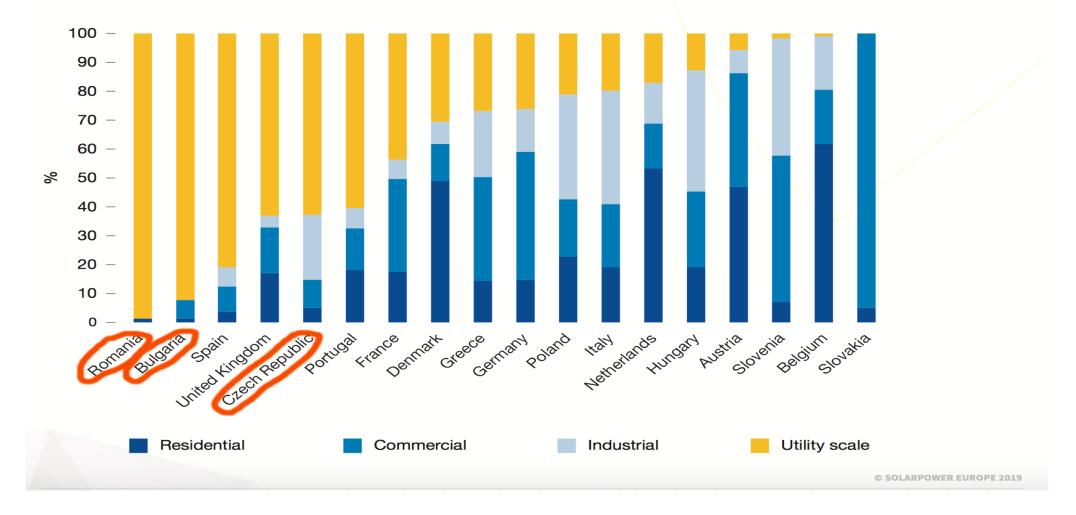
### 2020 targets: Not all CEEs are laggards



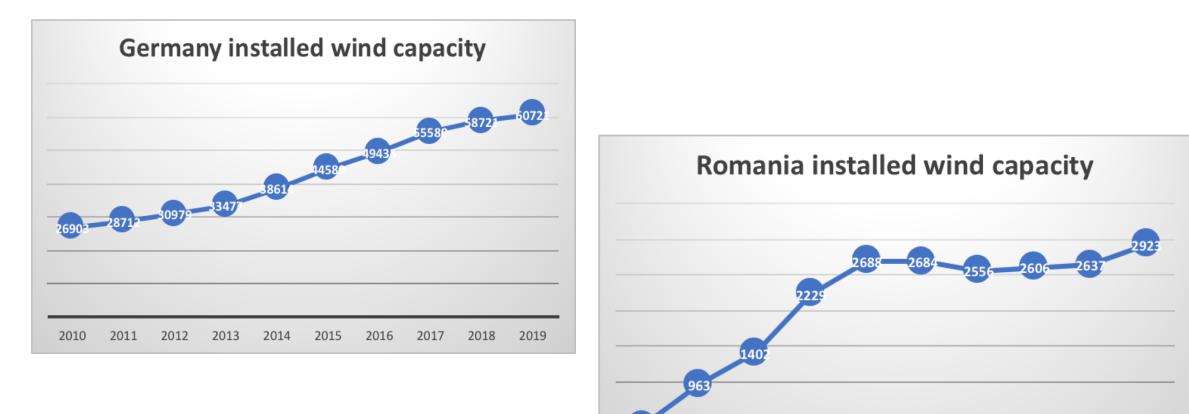
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### But... little job creation and citizen participation

FIGURE 1.5 EU SOLAR PV TOTAL CAPACITY SEGMENTS UNTIL 2018 FOR SELECTED COUNTRIES

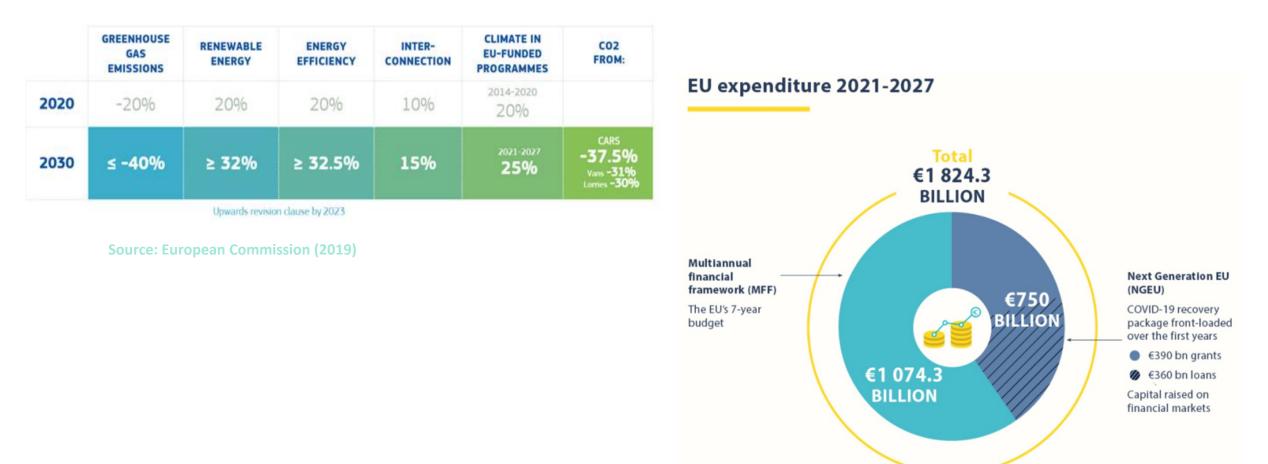


### Also... high policy instability: 'Hit the target, kill the market'



Source: Eurostat (2021)

### EU climate and energy framework 2030



### **CEE renewables targets 2030**

Country	EU formula	National target	Share of renewables 2019
Bulgaria	27%	27%	21,5%
Croatia	32%	36,4%	28.4%
Hungary	23%	<b>21%</b>	<b>12,6%</b>
Czech Republic	23%	22%	16%
Slovakia	24%	19,2%	16,8%
Poland	25%	21-23%	12%
Romania	34%	30,7%	24,2%

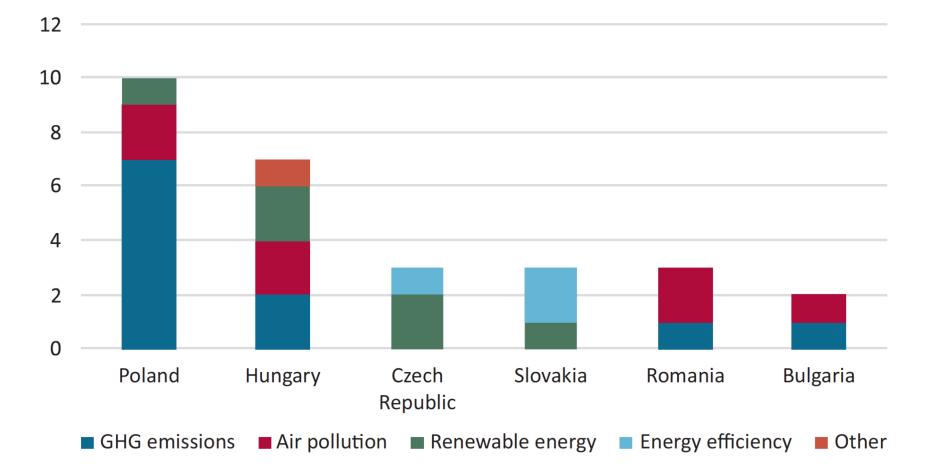
**Source: Final National Energy and Climate Plans** 

### **Rising price of carbon due to ETS reforms**



Source: https://ember-climate.org/data/carbon-price-viewer/

### **Dissenting votes of CEE in the Council**



Source: Ćetković & Buzogány (2019) - The political economy of EU climate and energy policies in Central and Eastern Europe revisited: Shifting coalitions and prospects for clean energy transitions. *Politics and Governance*, 7(1), 124-138,

### But the EU also reluctantly accepts nuclear power

#### Politics

#### All four Visegrad countries will need nuclear energy, says Hungarian president in Warsaw



A A @ C @



Jurata, Poland. Photo: MTI

Source: https://dailynewshungary.com/all-four-visegrad-countries-will-need-nuclear-energy-says-hungarian-president-in-warsaw/

SUSTAINABLE BUSINESS MARCH 27, 2021 / 3:17 PM / UPDATED A MONTH AGO

#### EU experts to say nuclear power qualifies for green investment label: document

By Kate Abnett



BRUSSELS (Reuters) - Experts tasked with assessing whether the European Union should label nuclear power as a green investment will say that the fuel qualifies as sustainable, according to a document reviewed by Reuters.



FILE PHOTO: A night view shows France's oldest Electricite de France (EDF) nuclear power plant and the Grand Canal d'Alsace near the eastern French village of Fessenheim, France February 20, 2020. REUTERS/Arnd Wiegmann

Source: https://www.reuters.com/article/us-europe-regulations-finance/eu-experts-to-say-nuclear-powerqualifies-for-green-investment-label-document-idINKBN2BJ0F0

### **Political-economic determinants of renewables deployment in CEE**

# What explains RES deployment? (Overview)

#### **Techno-economic perspective**

- RES availability
- Technological development and declining costs
- Energy production and usage patterns

#### Socio-technical perspective

- Domestic pollution levels
- Global oil price
- Niche innovations

#### **Political perspective**

- Political economy/Varieties of Capitalism and policy design
- Party preferences and public pressure
- Geopolitical concerns and energy security

# **Varieties of Capitalism**

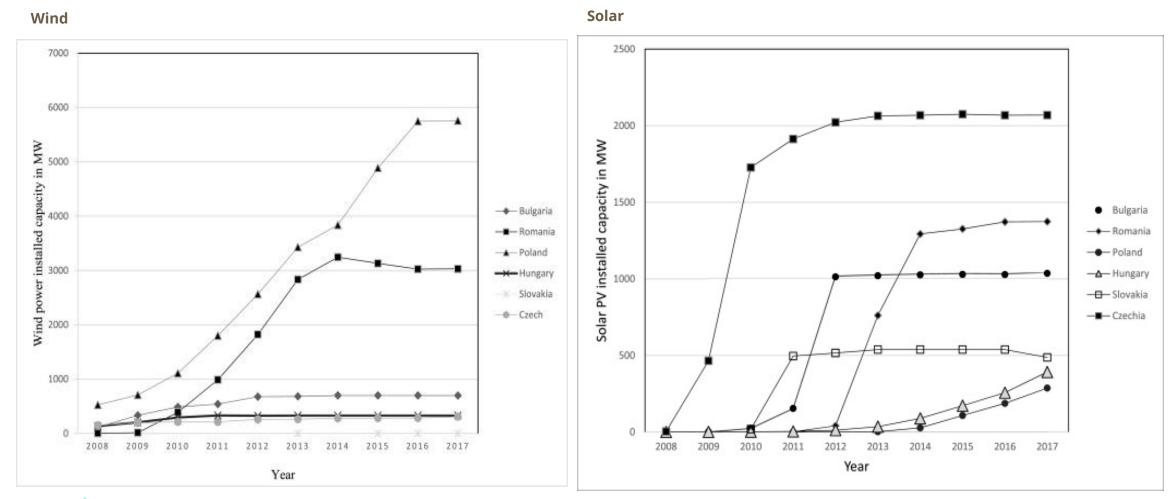
#### • Varieties of Capitalism

- Coordinated market economies (Germany, Denmark)
- Liberal market economies (UK, USA)
- Dependent market economies (CEE)

#### • Renewable energies and Varieties of Capitalism

- Coordinated market economies: early movers, technology development
- Liberal market economies: followers when technology costs decline
- Dependent market economies: externally driven + difficulties in long-term planning

### **Differences within CEE**



Source: Ćetković & Buzogány (2020). Between markets, politics and path-dependence: Explaining the growth of solar and wind power in six Central and Eastern European countries. *Energy Policy*, 139, 111325.

# **Differences within CEE**

### Visegrad model

- prioritizing low energy prices to attract industrial FDI and low
  - household energy prices
- strong role of incumbent energy (coal, nuclear)
- Stronger state influence

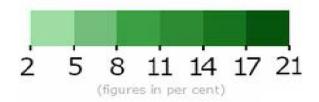
### South-East European model (Romania, Bulgaria, Croatia)

- late-comer's catching-up development: attracting RES investments
- boom and bust cycle

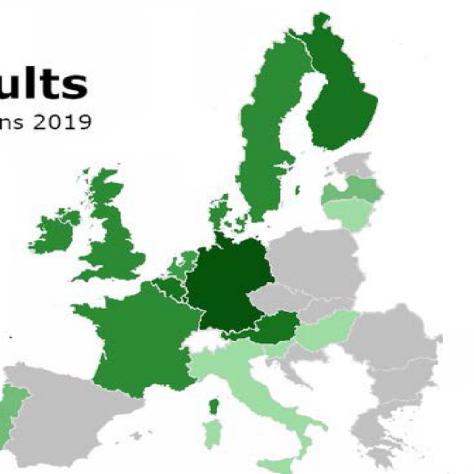
## **Political mobilization remains low**

### Green Party Election Results

European Parliament elections 2019



No Green Party or below 2%



Source: https://i.redd.it/0ysd1gz746231.png

# **Geo-political concerns and energy security**

- Economic patriotism
- Emphasis on energy self-sufficiency and diversification of energy-mixes
- Energy in the shadow of geopolitics (Russia and China)

# Key takeaways

- EU a major driver of clean energy policies in CEE
- Interests of CEE countries diverging but a common turn towards energy security
- Little internal political mobilization for ensuring stable low-carbon transition
- But techno-economic trends working for renewables
- Proactive and comprehensive strategy (market, industry, citizens) essential for reaping the benefits of energy transitions
- Next Generation EU: Window of opportunity?