**ACER** 

European Union Agency for the Cooperation of Energy Regulators

Engaging European consumers for a costeffective clean energy transition

Christian Zinglersen – ACER Director Smart Energy Summit 2021 – 10 March 2021 – smartEn

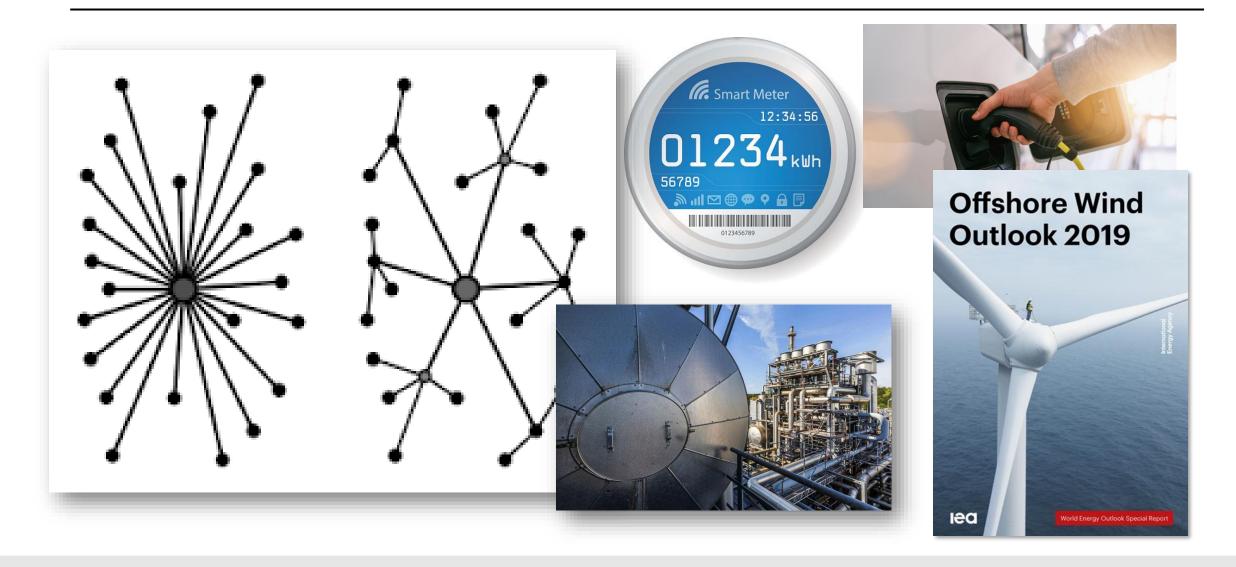


- Energy transition at scale & speed: 'All hands on deck' (when & where efficient).
- Sound principles still hold true:
  - Cost-efficient & effective.
  - Open to innovation (technology & business wise).
  - Avoiding incumbent bias.
- Markets a key driver. Regulation a key enabler.
- Building on an evolving Internal Energy Market.



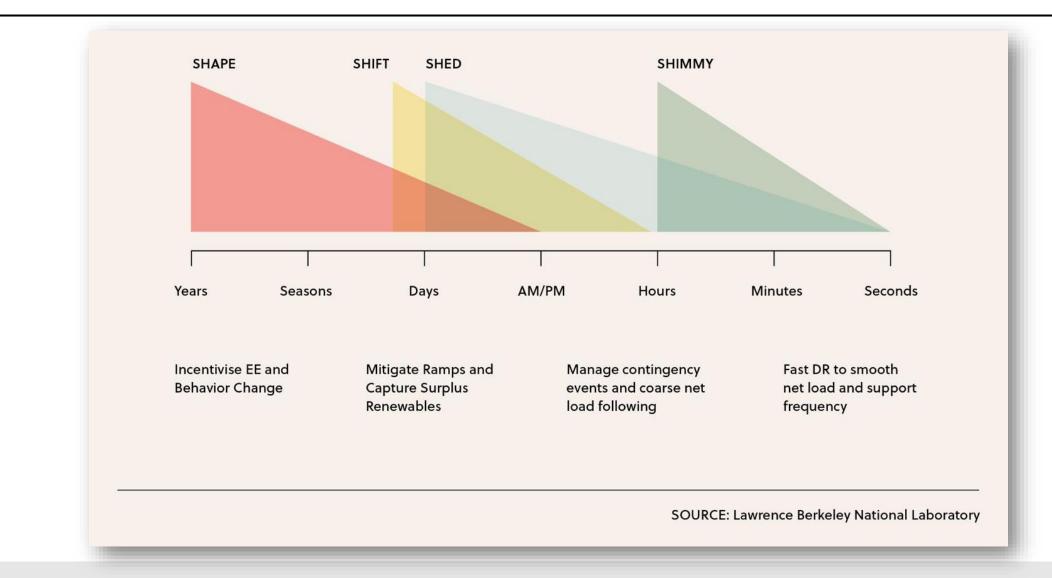






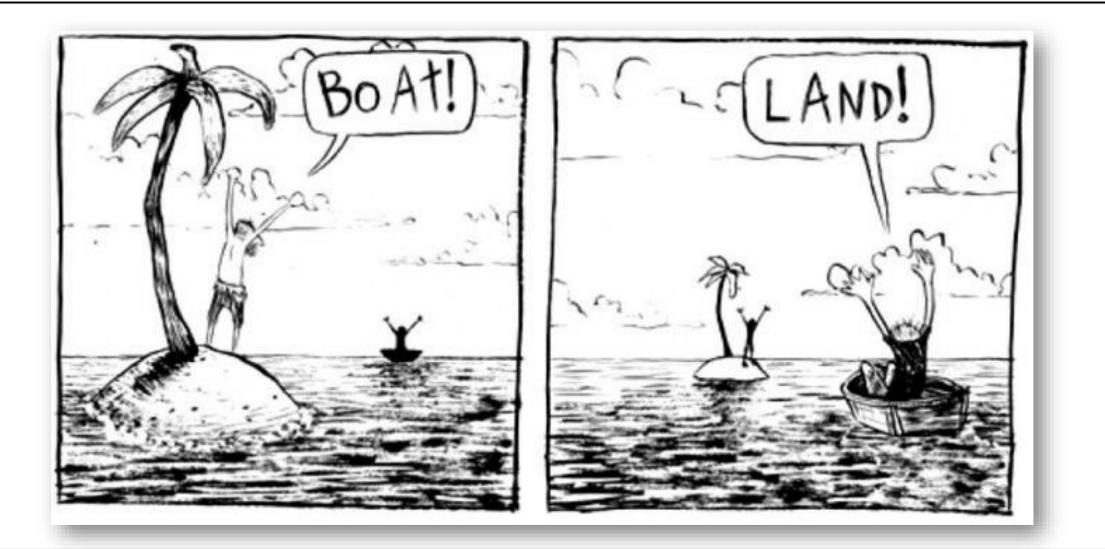


### Starting with three perspectives (2)





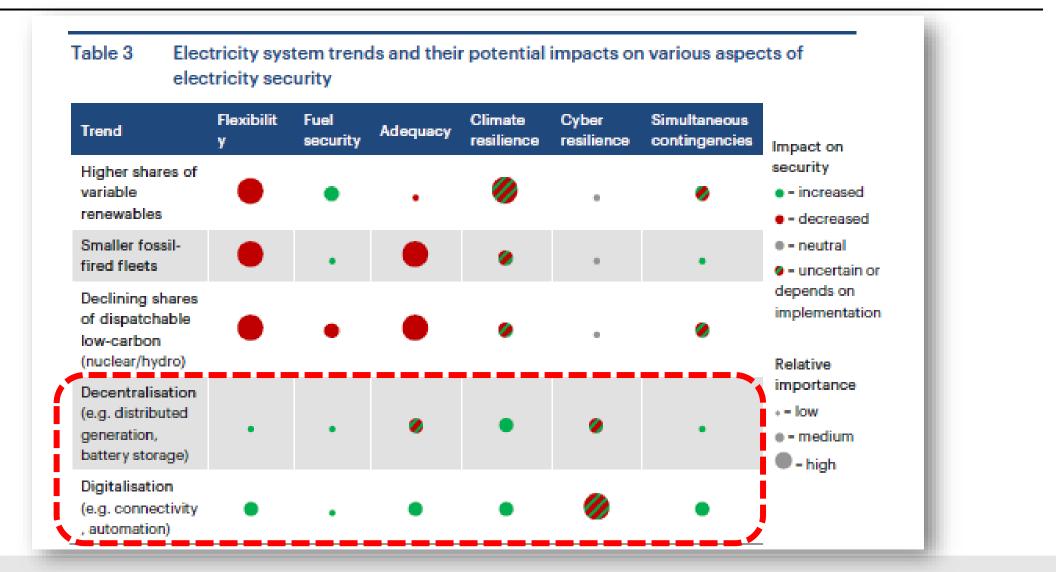
### Starting with three perspectives (3)





- The relative role of centralised versus decentralised assets. Bulk power vs. local balancing?
- Energy system stability (security) in an era of rapid change. Who
  may (should) be 'coming to the rescue'?
- Different perspectives and entry points play a role. Who's problem is being solved?

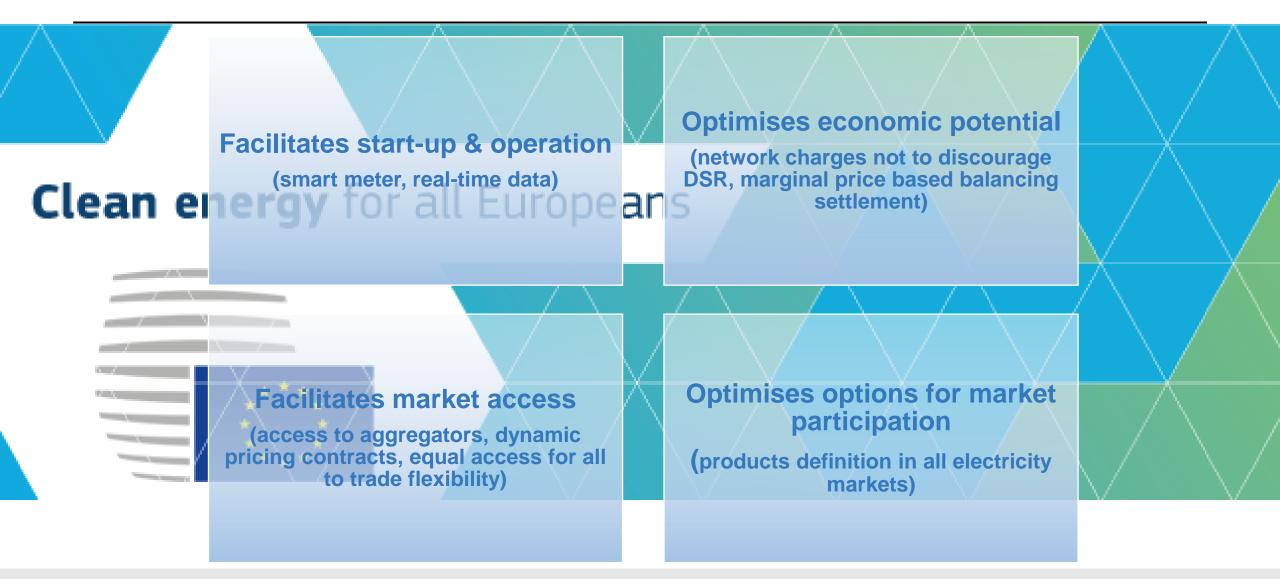




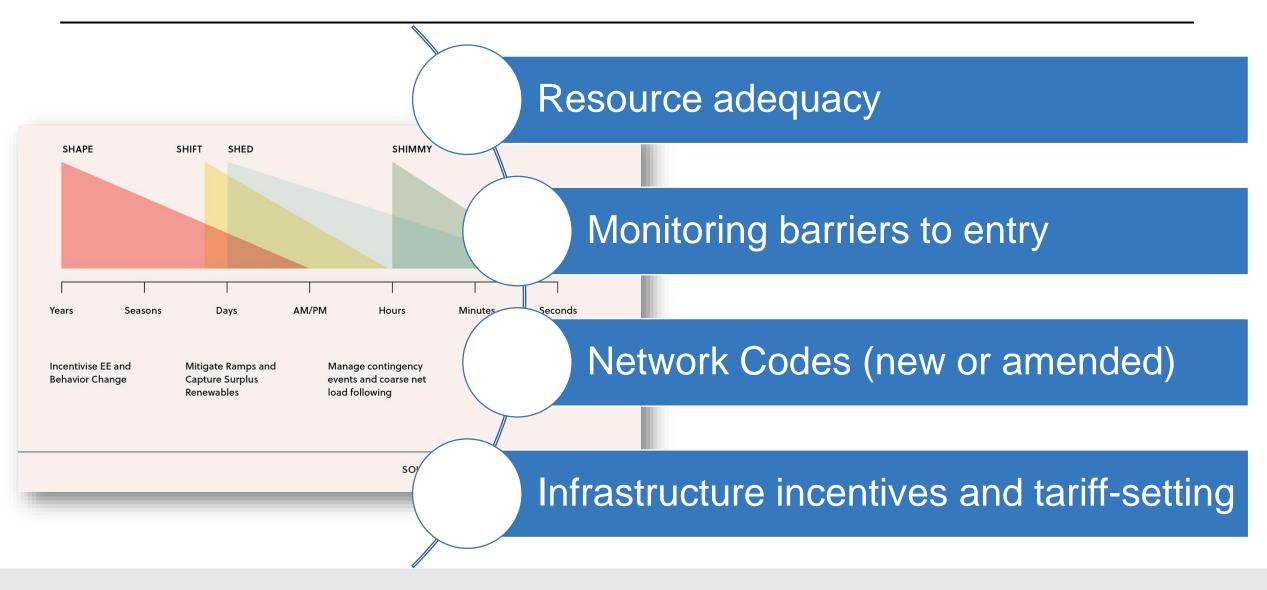
Note: IEA, Power Systems in Transition. Challenges and opportunities ahead for electricity security, October 2020



### **Clean Energy Package: A significant step forward**









### **Demand Side Response & resource adequacy**

**Resource adequacy** assesses the level of (electricity) security of supply in the long term: Does Europe / its Member States have enough generation, storage, network to supply demand from now until 2030?

#### A European approach

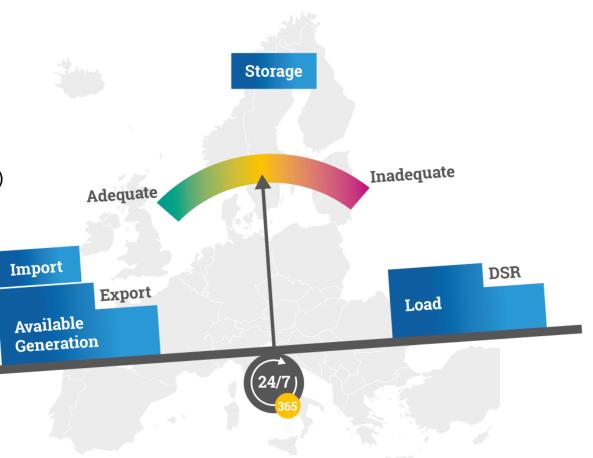
- Highlights the benefits of mutual interdependence
- Paves the way for new technologies (storage, demand-response ...)

## Resource adequacy studies may highlight the benefits of DSR regarding

- Reduced need for investment (in network, generation or storage)
- Increased resilience to extreme events

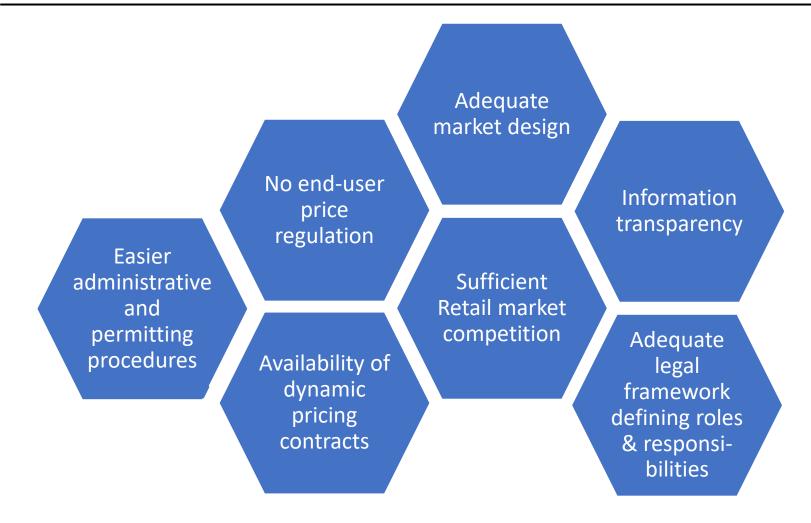
#### Modelling needs to take different contributions into account

- All solutions placed on a 'level playing field'
- Forecasting needs to be robust. Transparency & scrutiny.





### Monitoring barriers to entry



We aim to:

- Monitor and assess barriers to easy market entry and participation for new entrants and small players (including DSR and aggregators)
- Measure such barriers
   through indicators
- Assess Member State performance and suggest action



### **Demand Side Flexibility & Network Codes**

Demand Side Flexibility (DSF) understood to cover flexibility at **transmission** and at **distribution** level. Regulatory assessment to enable DSF:

- At wholesale/transmission level (well-known barriers):
  - Absence of EU frameworks for aggregation and prequalification processes
  - Some level of harmonization required to enable DSF (directly or through aggregation) to access benefits of crc ACER to perform scoping
  - Harmonization mainly to be reflected in existir for rules in 2021 on Demand

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- At distribution level (more active management of which affects transmission management and whole takeholders along the way
  - Absence of EU framework for development of management market
  - High level principles exist, but key design features need to be clarified in network codes



### Infrastructure incentives and tariff-setting



Innovative and advanced transmission network solutions: Identification of common regulatory practices across Europe. Going beyond the CAPEX vs. TOTEX distinction, remunerating for benefits instead of costs.



With distributed generation, increasing demand from e.g. electric heating and EVs, increasing capability of resources to respond to time signals, time-of-use gains in importance.

Time-of-use tariffs, especially for larger consumers, can be a **useful tool** for reducing system peak-load, which is a main driver for network investments, thereby promoting network efficiency.

# Thank you for your attention.



European Union Agency for the Cooperation of Energy Regulators

☑ info@acer.europa.eu☑ acer.europa.eu

