

# PERSPECTIVES FOR USE OF SMARTNET SOLUTIONS FOR UNLOCKING THE ENERGY FLXIBILITY

SmartNet Workshop

Hanne Binder, 20th september 2018

### CONTENT

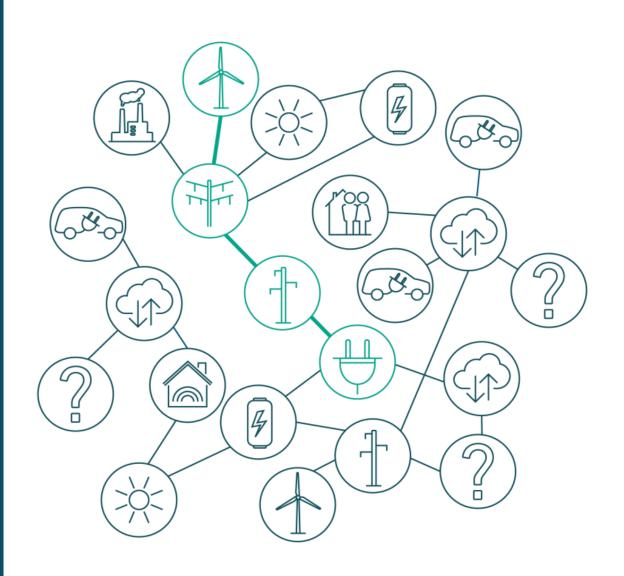
- 'The Energy Flexibility' that needs
   'Unlocking' from Energinet perspective
- TSO in the SmartNet Pilot B
- Control based solutions and the current market design





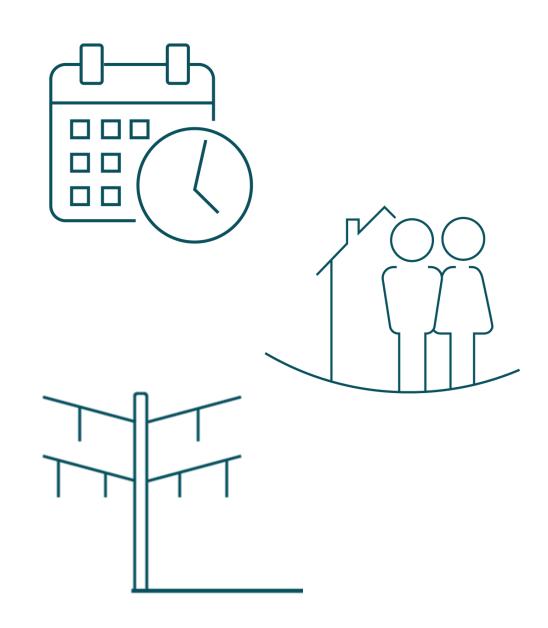
# A DANISH PERSPECTIVE ON ENERGY FLEXIBILITY

- A shift in energy production and usage in Denmark
- New production, new demand, new possibilities
- Demand side response and economic efficiency



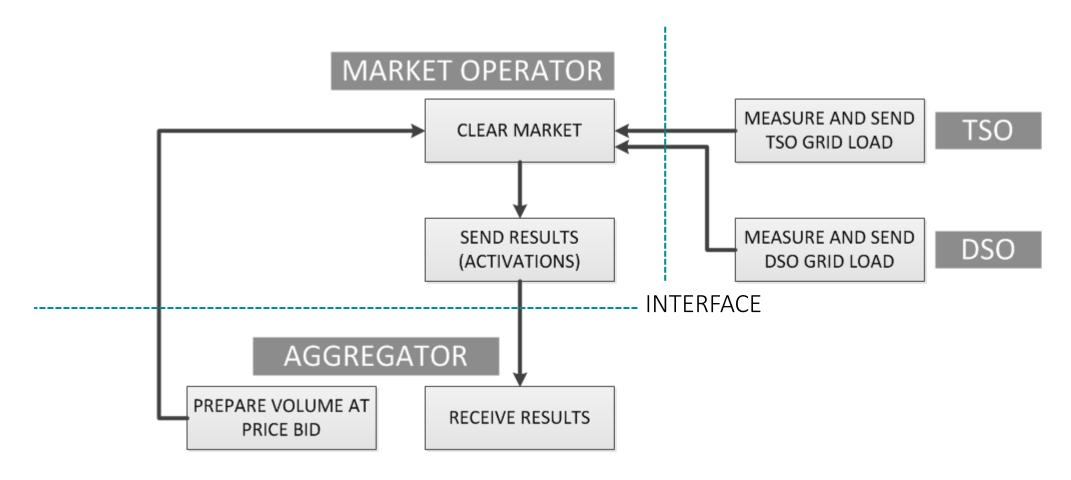
## ..AND WHY DOES IT NEED TO BE 'UNLOCKED'?

- Economic efficiency
- Technical solutions
- Market design
- SmartNet pilot B focus on energy balancing and congestion management





### SMARTNET PILOT B — CONCEPTUAL UPPER LEVEL SETUP OVERVIEW





OPERATION
Efficient operation
and investment in
the transmission grid



MONITOR
Security of supply

CAPACITY
Secure available
capacity resources
to maintain
security of supply

BALANCE
Maintain physical
balance and
technical quality



MARKET
Develop market
framework







### PERSPECTIVES FOR THE SMARTNET SOLUTION

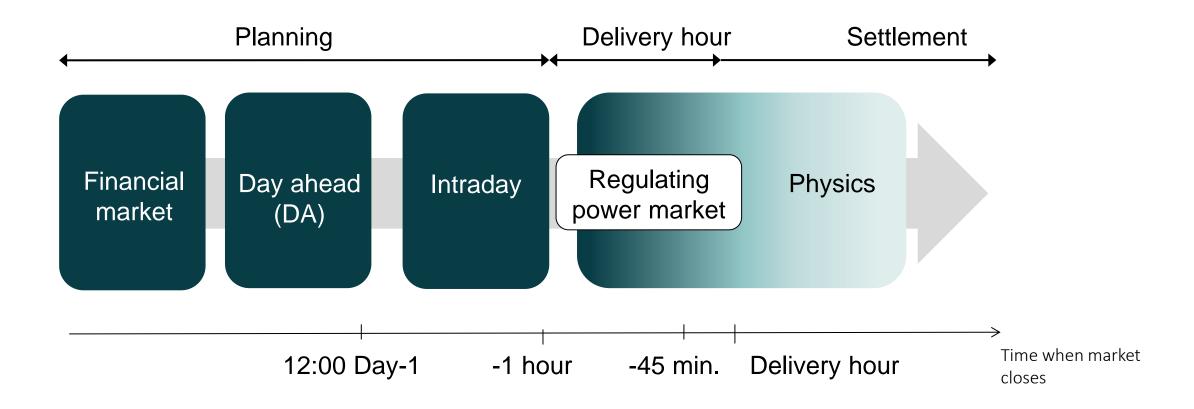
Automatic solution targeting small units

External control of units

DSO-TSO combined optimization



#### CURRENT MARKET OVERVIEW



## QUESTIONS



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