



## *Challenges and benefits of energy transition – a MS perspective*

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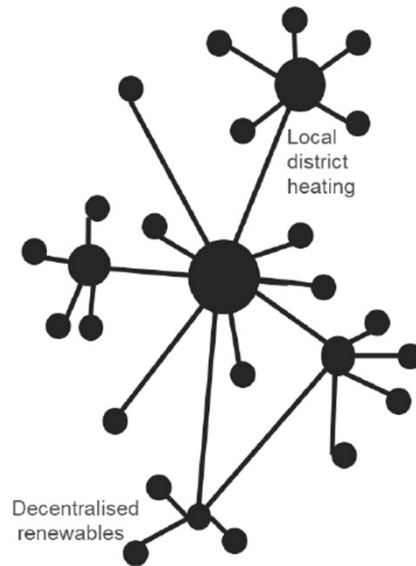
Closure Conference EU Twinning Ukraine

# From centralised towards more distributed

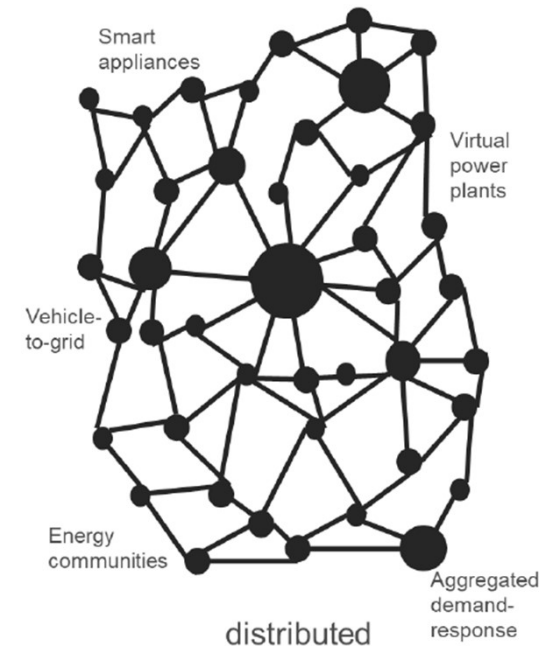
(Source: European Commission)



centralised



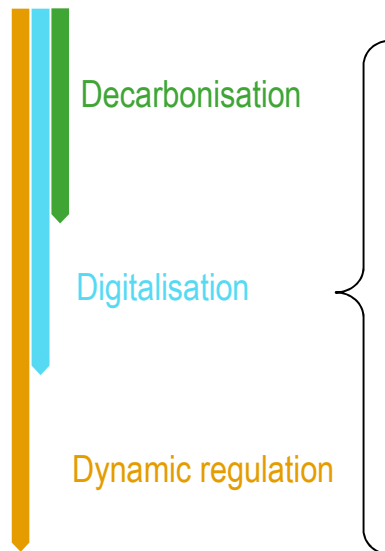
decentralised



distributed

# Energy System Integration = Smart Integration

## Smart integration



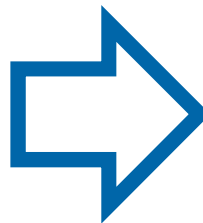
- Electrification
- Green (decarbonised) gases and liquid fuels
- Best use of (waste) resources
- Upward integration of decentralised energy flows



# Smart energy system integration requires new players and new business models in the electricity sector



**Pooling**  
**Aggregators**  
**Renewable Energy Communities**  
**Citizen Energy Communities**  
**Peer-to-peer-Trading**  
**Flexible Tariffs**  
**Flexible Demand**  
**Demand Response**



## Summary:

- CEP fosters the concepts and models
- The new models imply a future-oriented development of energy markets
- The new models generate new competition
- The new models need regulation to ensure security of supply and customer protection

## Questions remaining:

- What and who can be competitive on the market?
- What instruments are needed to support the new models?
- Are these models enablers of the “Energiewende” (in the long run)?

# The Austrian Case



The cornerstone of the Austrian strategy: **100 % Electricity from Renewables** by 2030

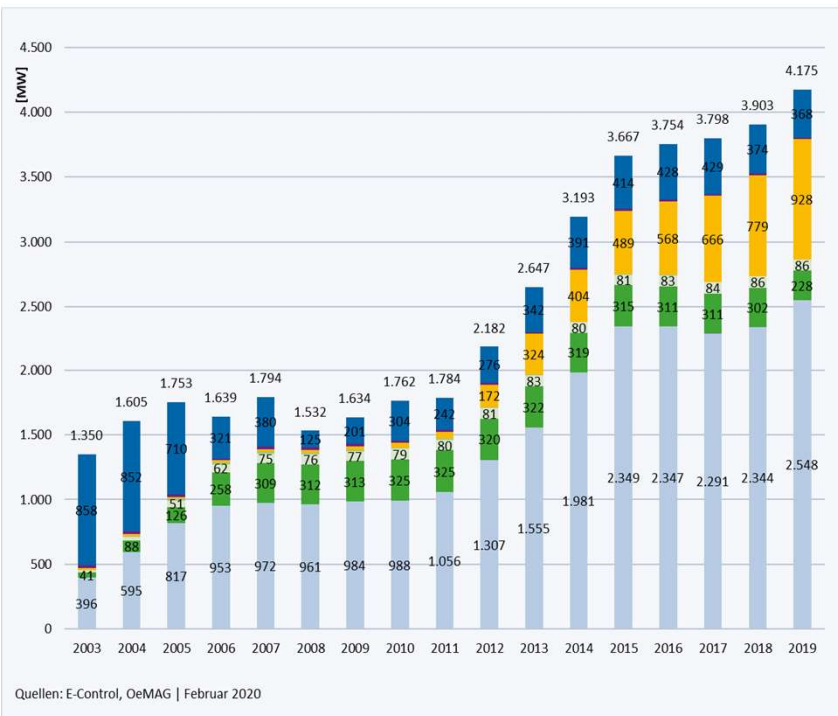
Some additional highlights:

- Phase-out of heating oil for heating purposes
- Phase-out of gas for heating purposes
- More flexibility in the electricity system
- Support of technologies and products: e-mobility, hydrogen, storage, etc.
- Support of services and new business models: demand response, energy communities, peer-to-peer-trading, etc.

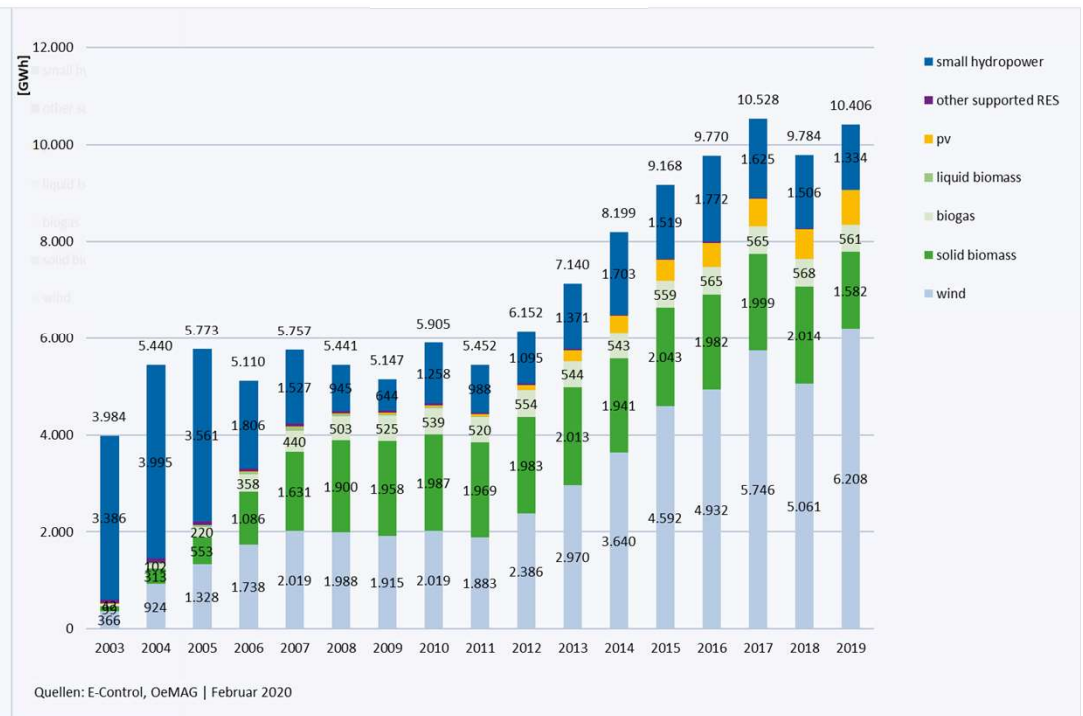
- 1 billion per year for  
the supporting  
mechanism  
- "Starting point": ~ 75%

# Electricity from RES in Austria

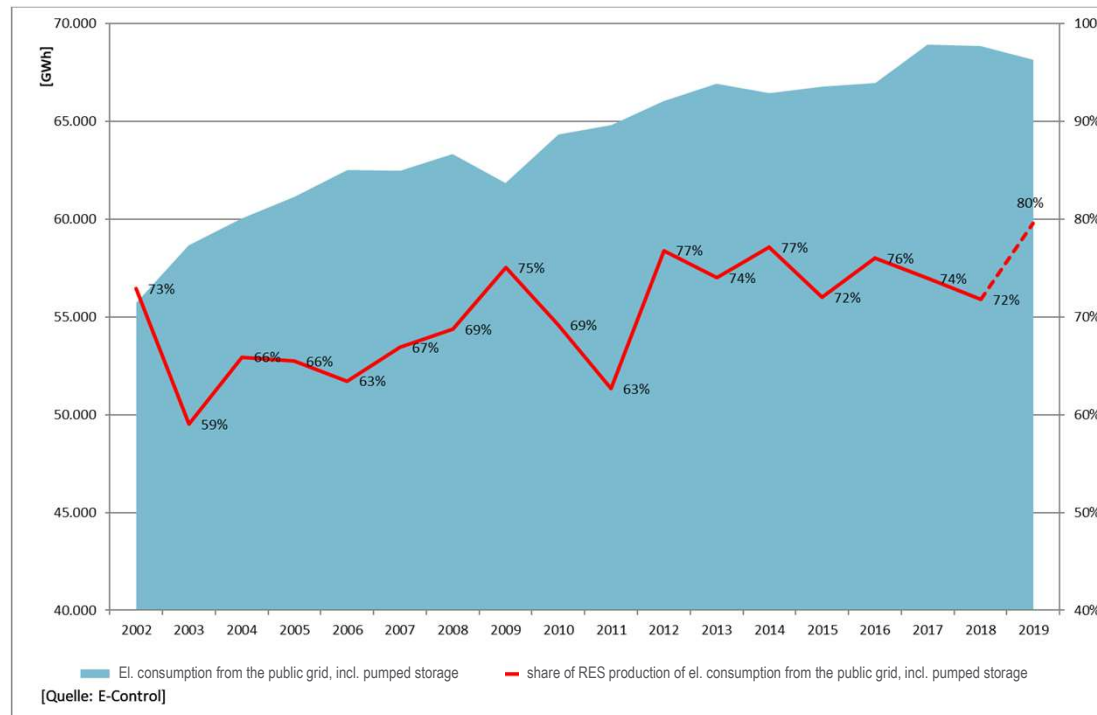
Installed capacity



Supported RES-E



# RES-E production as share of consumption in Austria



# Austrian targets for the gas sector

- Main goals
  - Increase of injection of renewable gases up to 5 TWh until 2030; 7% of today's gas consumption
  - Phase-out of fossil gas by 2040
  - Innovation leader for hydrogen
  - Full decarbonisation of the heating sector
- > **Renewable Gases**
  - Defining potentials and the transformation path
  - Expansion supported by funding program and quota
  - Guarantee of Origins
  - Use of renewable gases mainly in the industry
- > **Phase-out of natural gas**
  - Phase-out of natural gas heating systems in new buildings from 2025 on
  - No gas grid expansion, only densification
  - Substitution by district heating in cities
  - No funding for investments in fossil fuels



# The challenges for the Regulator



- Changes in the electricity market model: new players, new roles, new responsibilities and duties
- Changes in the tarification (regulated part): change in demand, change in peak-loads over a day, more decentralised electricity generation
- Changes in the competitive framework: new services, new players, new competitors

# *Energy for our future.*

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