

Global Ministerial Conference on System Integration of Renewables

- Innovation in policy, market design and regulation**

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1) What is needed to make sector coupling happen?

- "all-electric-world" across all sectors will reach its limits in terms of technical feasibility, cost-effectiveness and efficiency

Key factors for sector coupling



Sector coupling is more than the electrification of heating and transport



Unburden electricity price from taxes and fees



Advance the heating transition through a modernisation offensive for boiler rooms as well as efficient heating network systems, CHP and power-to-heat.



Gas is needed and "can be green"



Remove obstacles to the transport transition

Source: BDEW

- Sector coupling is no end in itself
- Preconditions
 - Level-playing-field → **Technology neutrality**
 - R & D
 - Grid infrastructure (electricity and gas)
 - Price level & Price expectation → **Timing**

2) What should become the revised roles of TSOs, DSOs and new market actors?

Key principles

- Primacy of competition
- Monopoly restricted to essential facilities
- Unbundling



Details enacted in EU law

New challenges

- Supply driven demand
- Flexibility needs of grid operators
- Sector coupling
- Security of supply
- Decentralization



New opportunities

Redifinig roles

- while respecting principles & new EU-legislation („clean energy package“)
- Dialogue between market roles needed



Role for BDEW

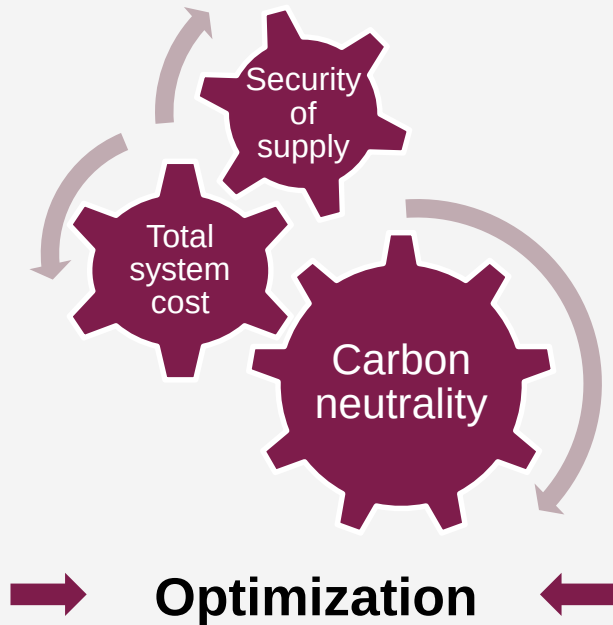
- Three building blocks for a market launch of PtG
- Market test for energy storage (in preparation)

3) What is the role of local utilities in guaranteeing electricity security?

Decentralization

- ...will be an important success factor in reaching climate goals
- ... is not an end in itself

➔ **increasing but not exclusive role** of local utilities, prosumers and citizen energy communities



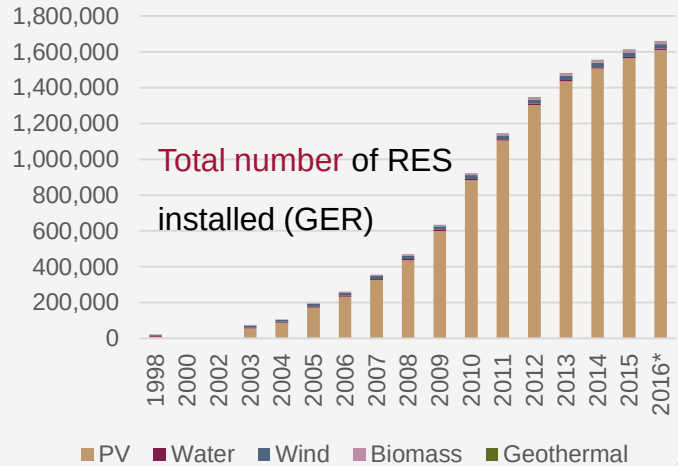
Europeanization

- Internal market
- Security of supply guaranteed in an EU-context (probabilistic approach)
- Power to X includes carbon neutral gas supply over long distances

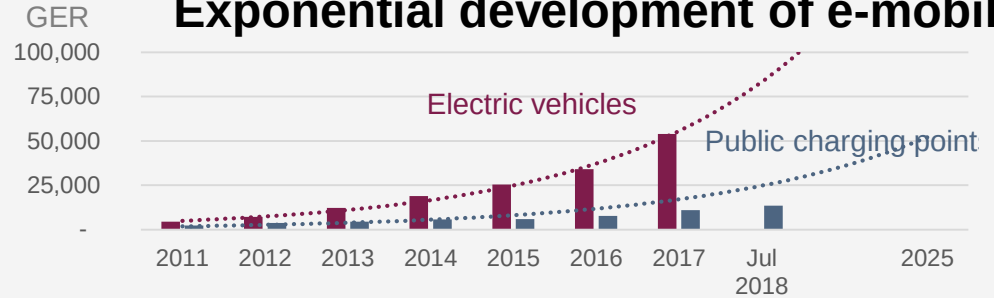
Back-up

3)Decentralization trends

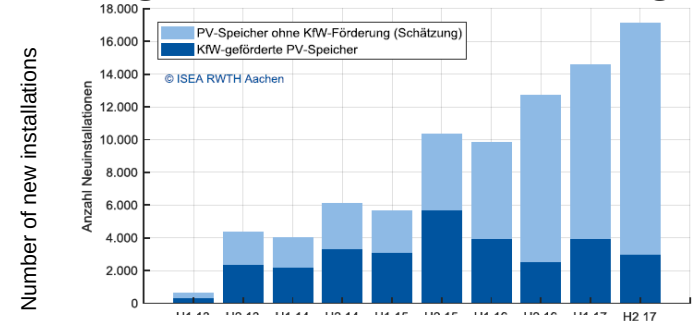
Increasing fragmentation of power generation



Exponential development of e-mobility



Promising increase in PV storage



: Semi-annual extension of photovoltaic storages in Germany from May 2013 until end of 2017.

Abbildung 3.6: Halbjährlicher Zubau an PV-Speichern in Deutschland von Mai 2013 bis Ende 2017.

Vielen Dank für Ihre Aufmerksamkeit!

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