

# New business models in clean energy

## Role of Intellectual Property

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# Clean energy transition leads to changes in industry dynamics and new competition in energy sector

## Clean energy transition drivers ...



Decarbonization



Electrification



Digitalization



Decentralisation

## ... impact the role of IP

**new technologies** relevant for power generation

- R&D in wind, solar, district heating

**more competition** from new industries

- demand response, energy storage, e-mobility

**more collaboration**

- asset optimization, remote control, data & analytics

**more global mindset in sharing and protecting IP**

- from local to global (local power plants / global technology implementation)



The importance of IP in clean energy is growing

Entry of new players with stronger tech background than traditional utilities

Active use of IP in new ways, as regards both sharing and excluding technology

# Impact of clean energy transition to IP strategy

- Large multi-party investments required on new power plants with a lifetime of tens of years
  - Long term contractual commitments
  - Sharing of IP and value in long term context
- Fast development of asset optimization and digitalization in order to gain efficiencies
- Cross industry partnerships between utilities, tech giants, start ups as well as with universities and research community
- Strategy required for dealing with a hybrid of IP rights (patents, copyright, trade secret, know how) as well as data
- Other regulation, e.g. relating to national security may impact the sharing of competence, data and IP



**THANK YOU!**