

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

Clean energy transition drivers ...

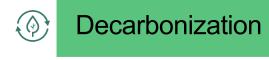


Fig. Electrification

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!

