

The overview of Digital Technologies

• Green initiatives through digitalization can be divided into: Green by Digital and Green of Digital.

Green by Digital

Digitization of the Energy industry

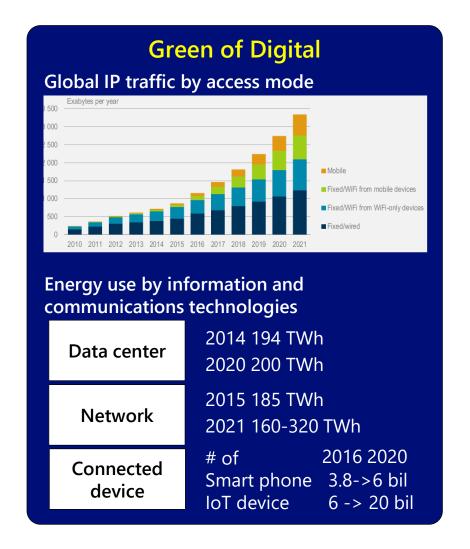
- Data and analytics in power plants and electricity networks
- Optimized oil & gas production processes

Digitization of energy consumption

- Smarter and more connected vehicles and infrastructure
- Shared mobility / Automated driving technologies
- Smart thermostat / lighting
- Digitalization of industrial plant

Digitization of consumer and industrial services

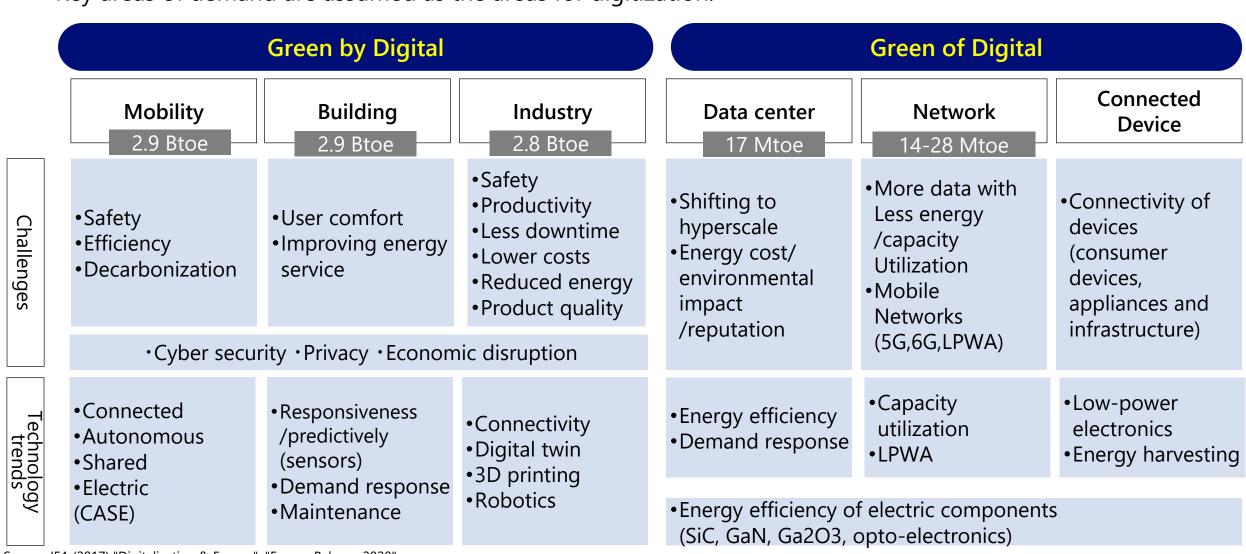
- E-commerce
- E-materialization
- Telework





Technology trends (1/2)

• Key areas of demand are assumed as the areas for digitization.



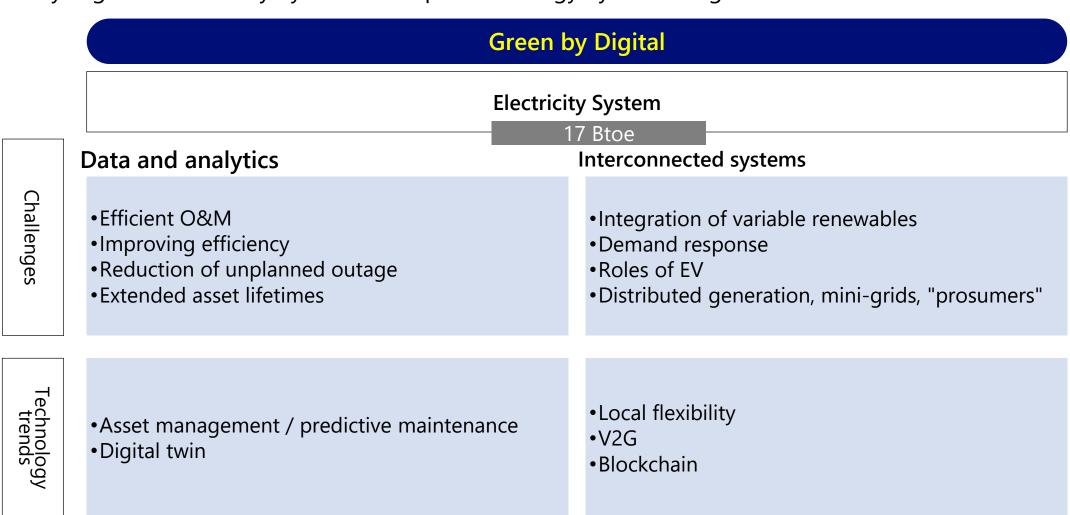
Source: IEA (2017) "Digitalization & Energy", "Energy Balance 2020"

Note: number of "toe" are final energy consumption



Technology trends (2/2)

• Green by Digital in Electricity System overlaps with Energy System Integration.



Source: IEA (2017) "Digitalization & Energy", "Energy Balance 2020" Note: number of "toe" are fossil fuel consumption for electricity system