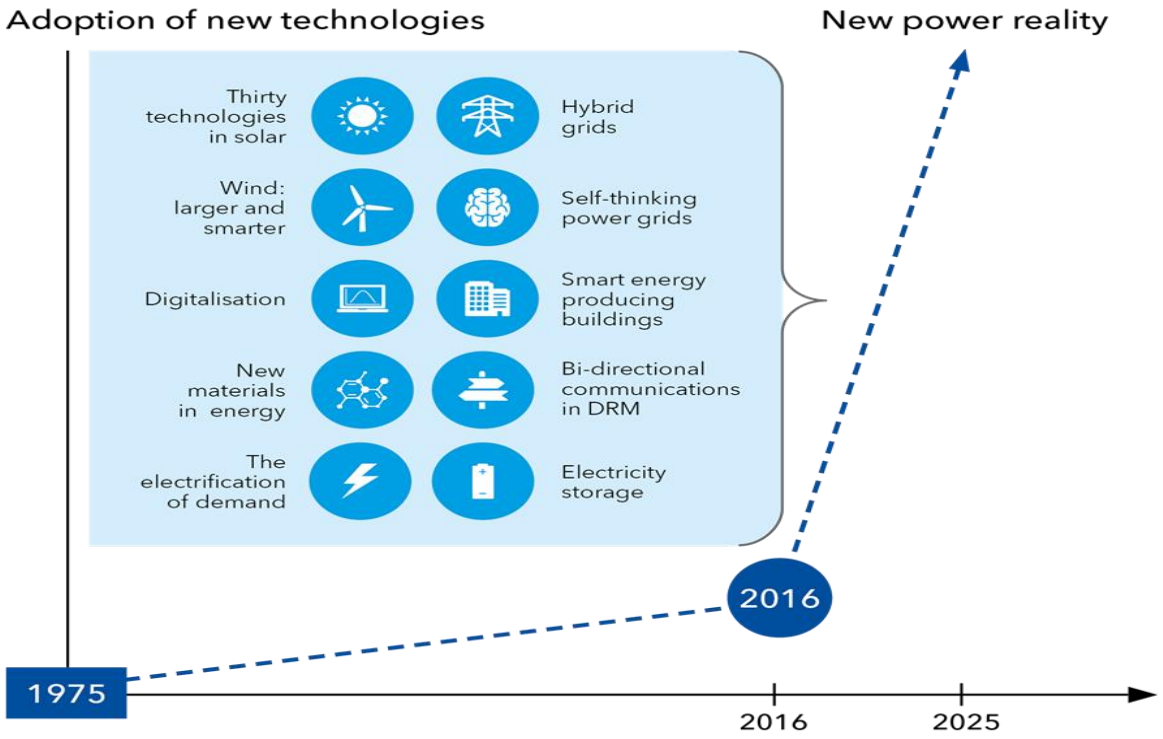
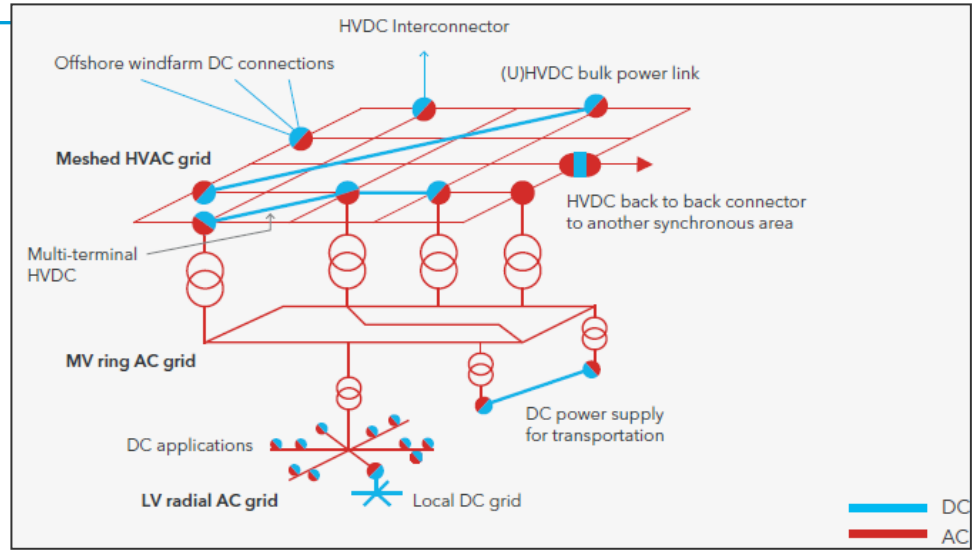
# Commercial & Industrial Microgrids

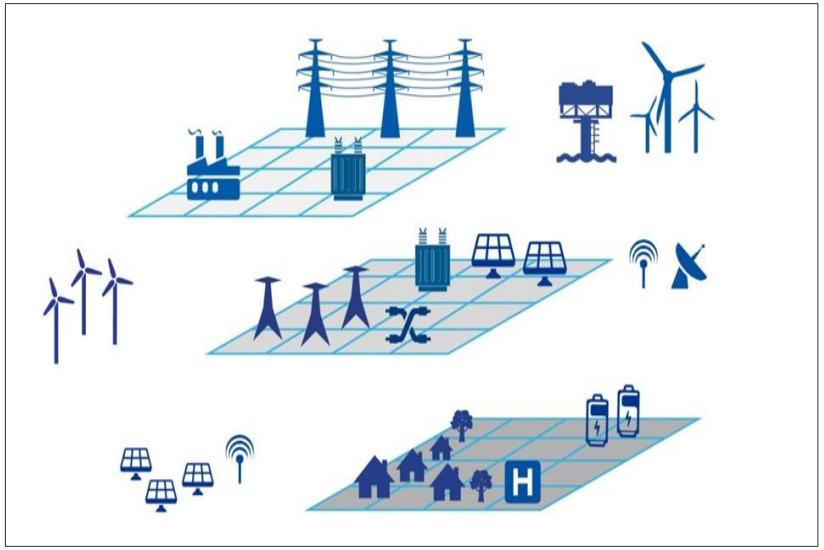
15th September 2020


The largest man made machine on earth

# ....is changing fast

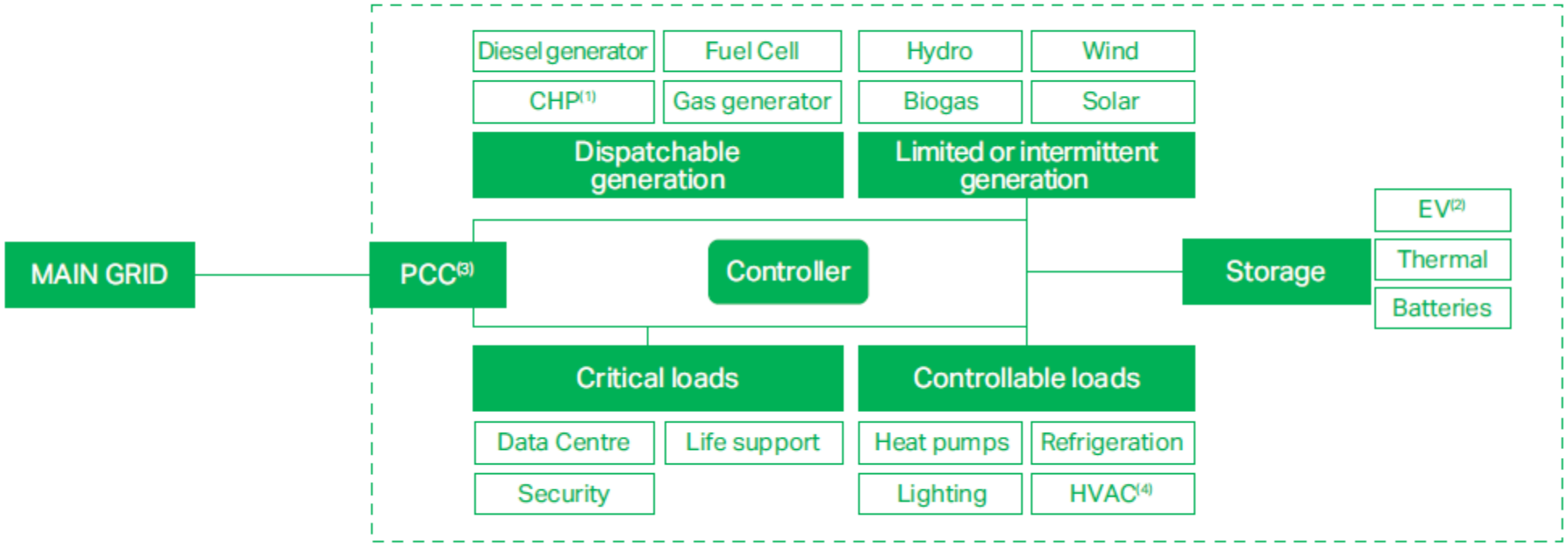


# Commercial & Industrial Microgrids

**Figure 4: General architecture of a microgrid**

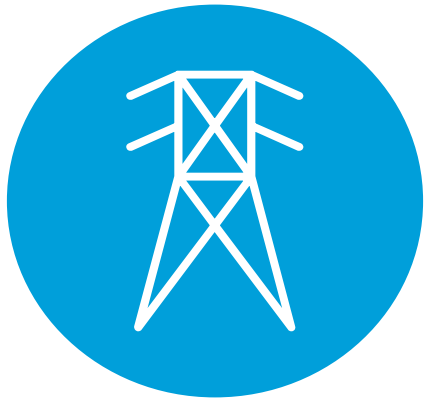


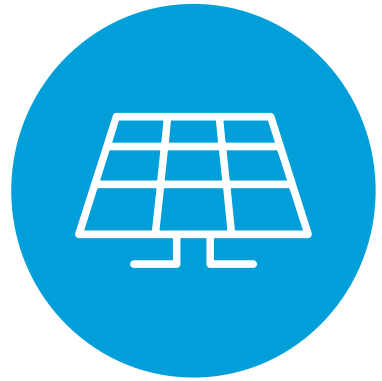

(1) CHP: Combined Heat and Power plant
(2) EV: Electric Vehicles
(3) PCC: Point of Common Coupling
(4) HVAC: Heating, Ventilation and Air Conditioning

*Ref figure: World Business Council for Sustainable Development*

# C&I Microgrids

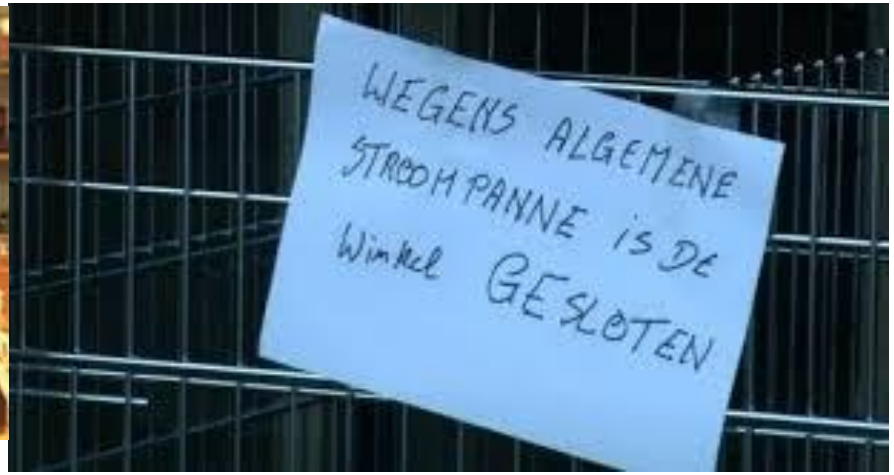
# Why will it prosper? Typical examples





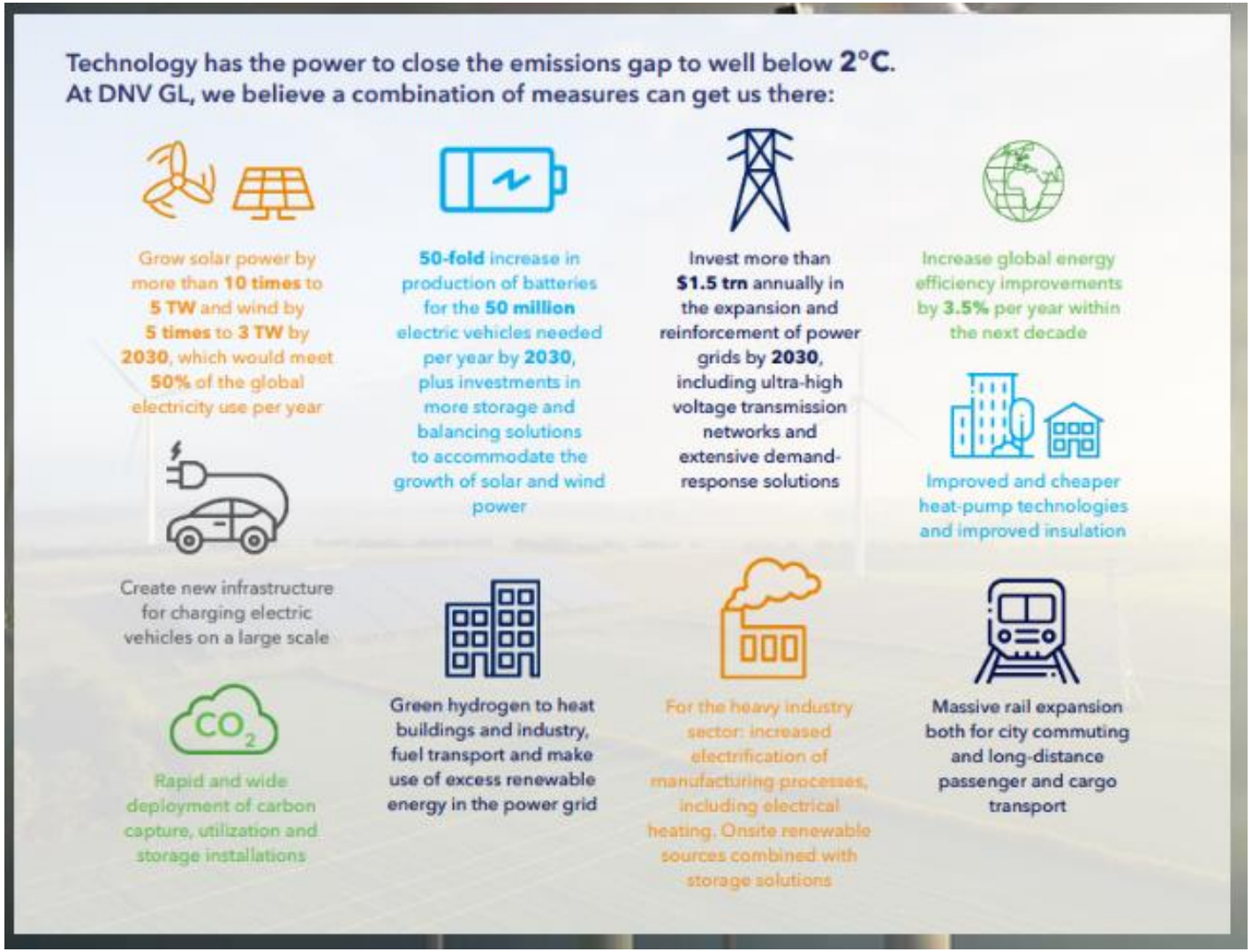
# The importance of business continuity



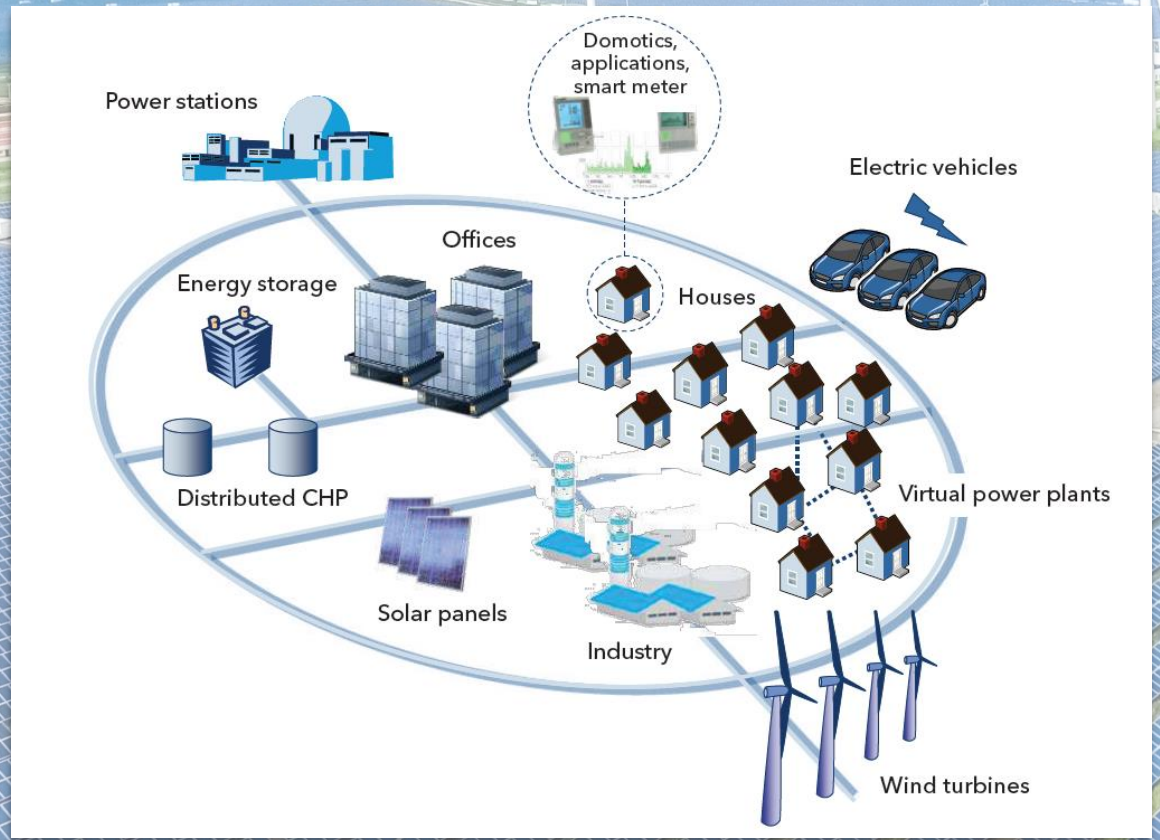


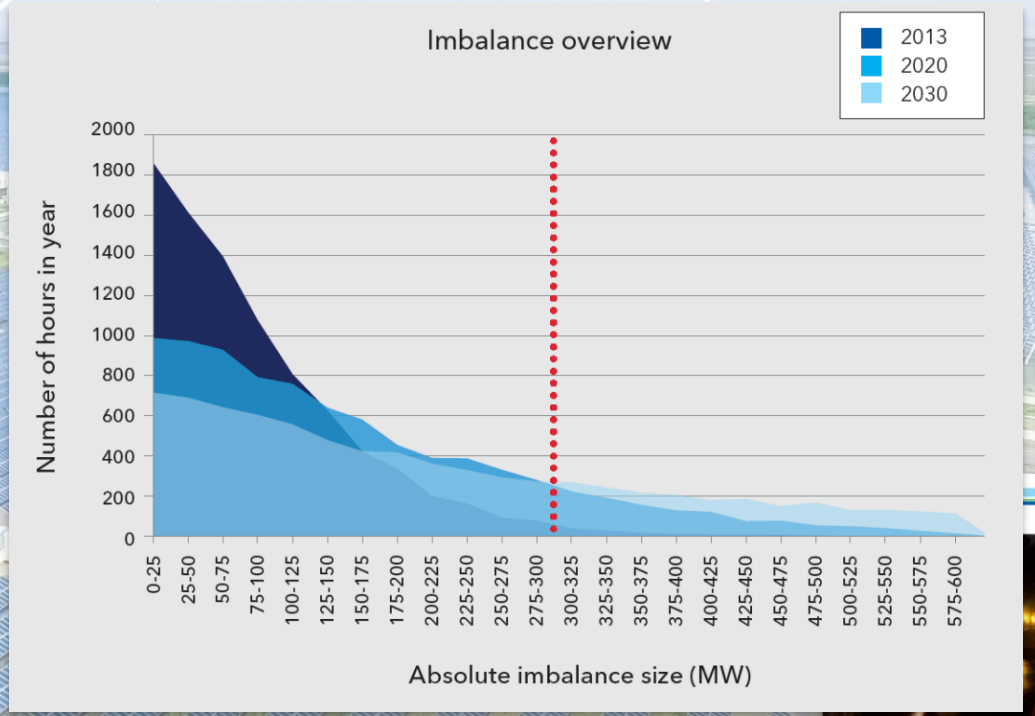


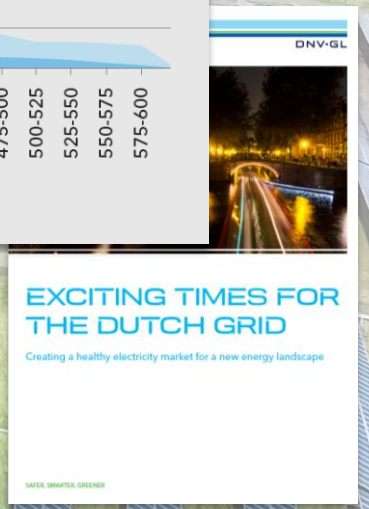
# The Energy Transition



# Consequences of high RES

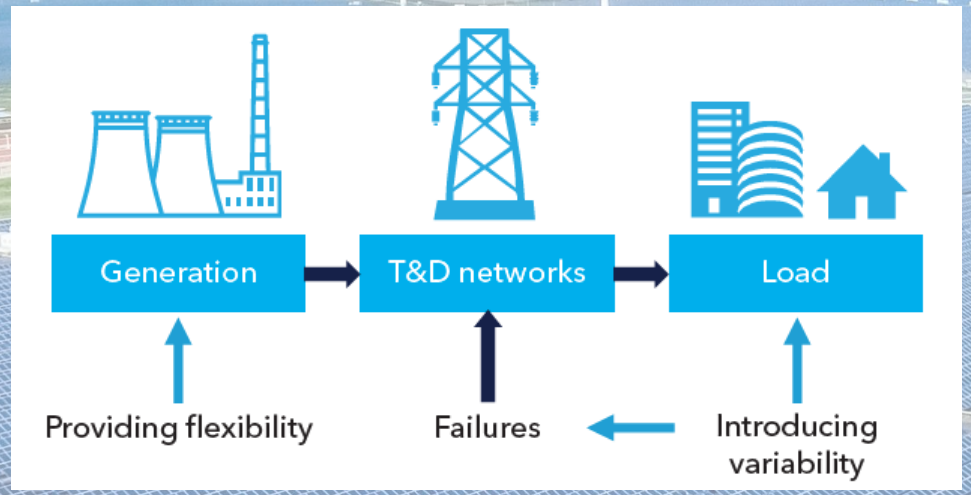


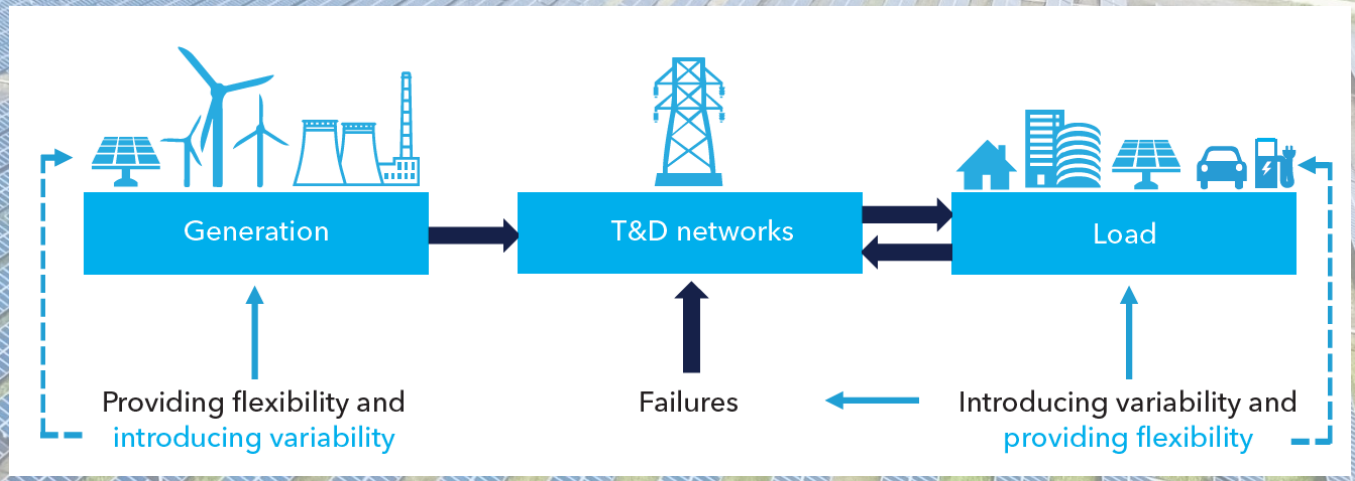



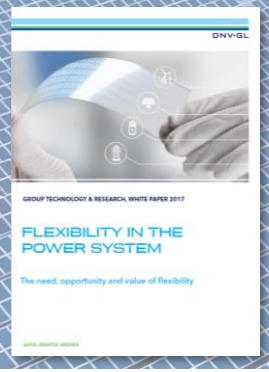
# Sources of variability and flexibility

Conventional

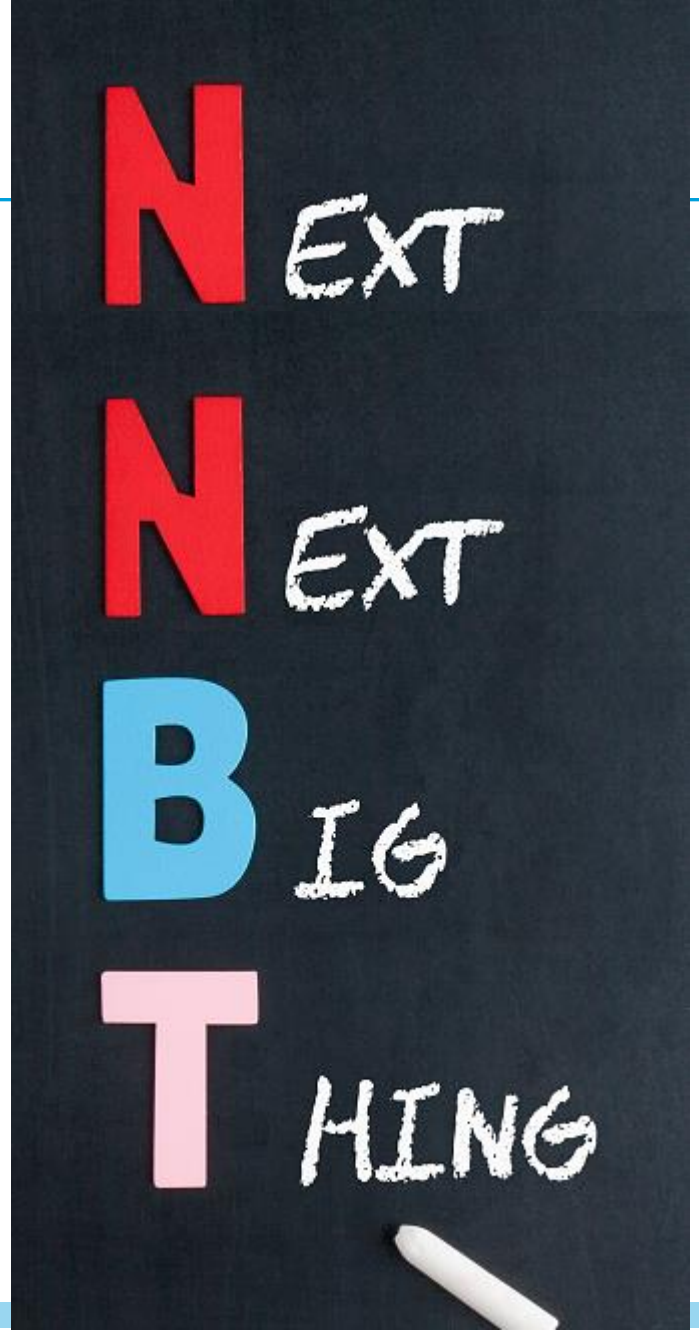



Future

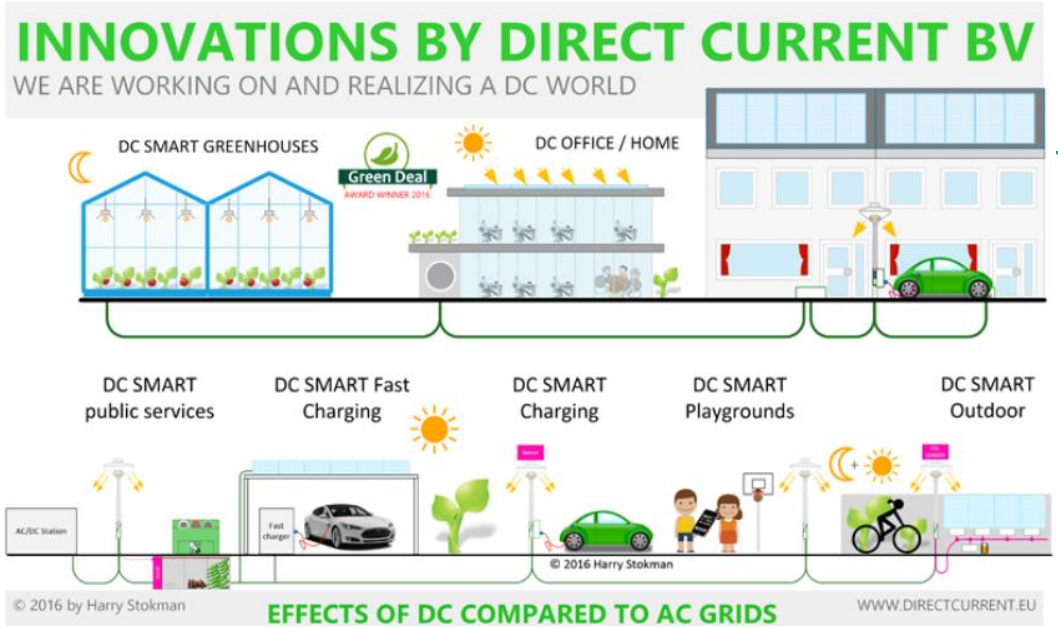


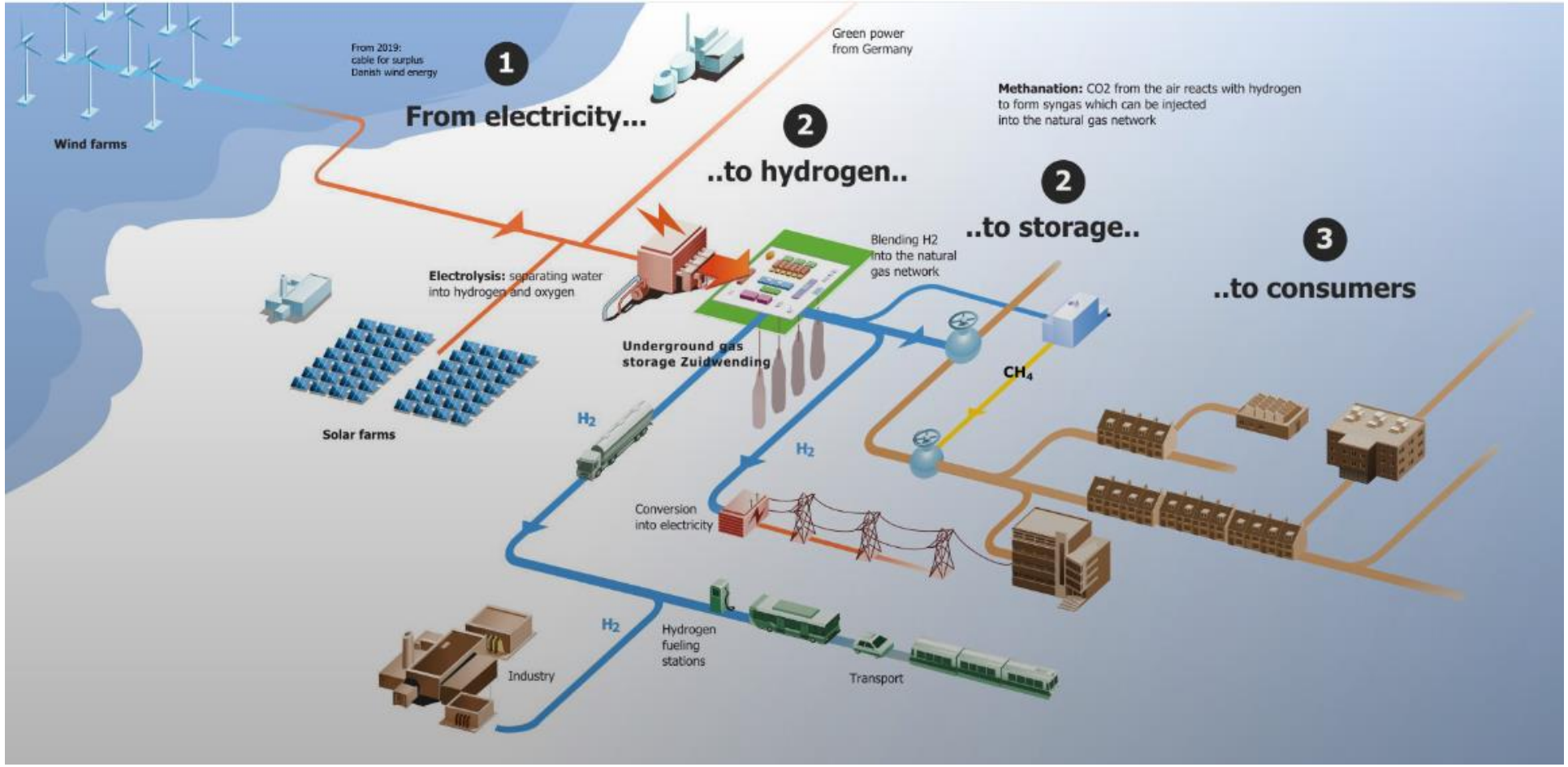
# The NNBT



# Meshed Microgrids & LV-DC Grids




# Merging of infrastructures



# Further enquiries

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# Sneak peak on September 29th

- A Fire side chat, without the $CO_2$ emissions

- A Mining Operator
- A Global Storage manufacturer TESLA (tbc)
- A System integrator ENGIE (tbc)

- An "Energy Hub" Infrastructure Program manager HBR (tbc)