flexQgrid. The grid of the future becomes real.







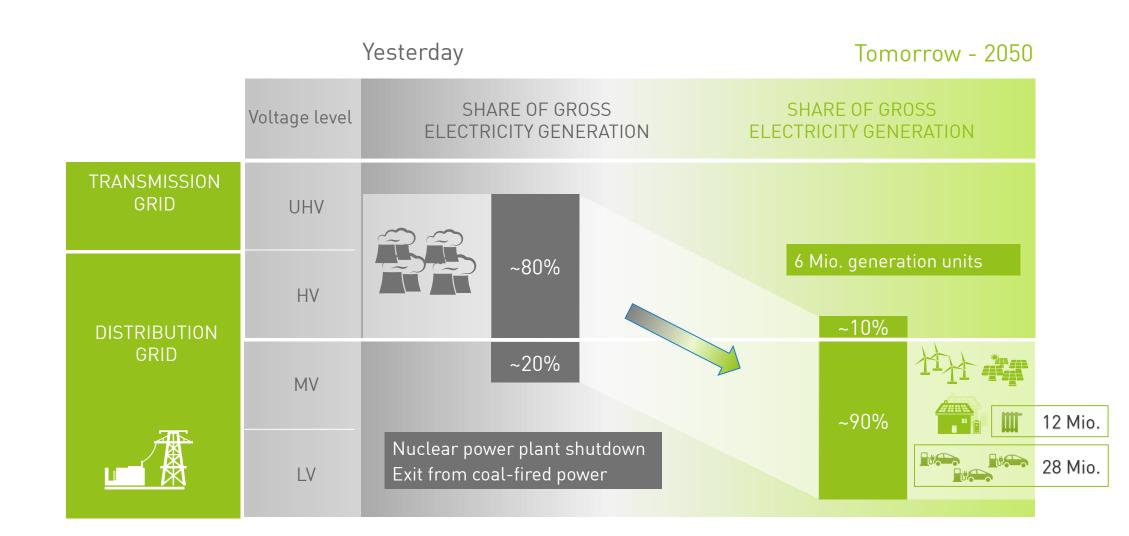


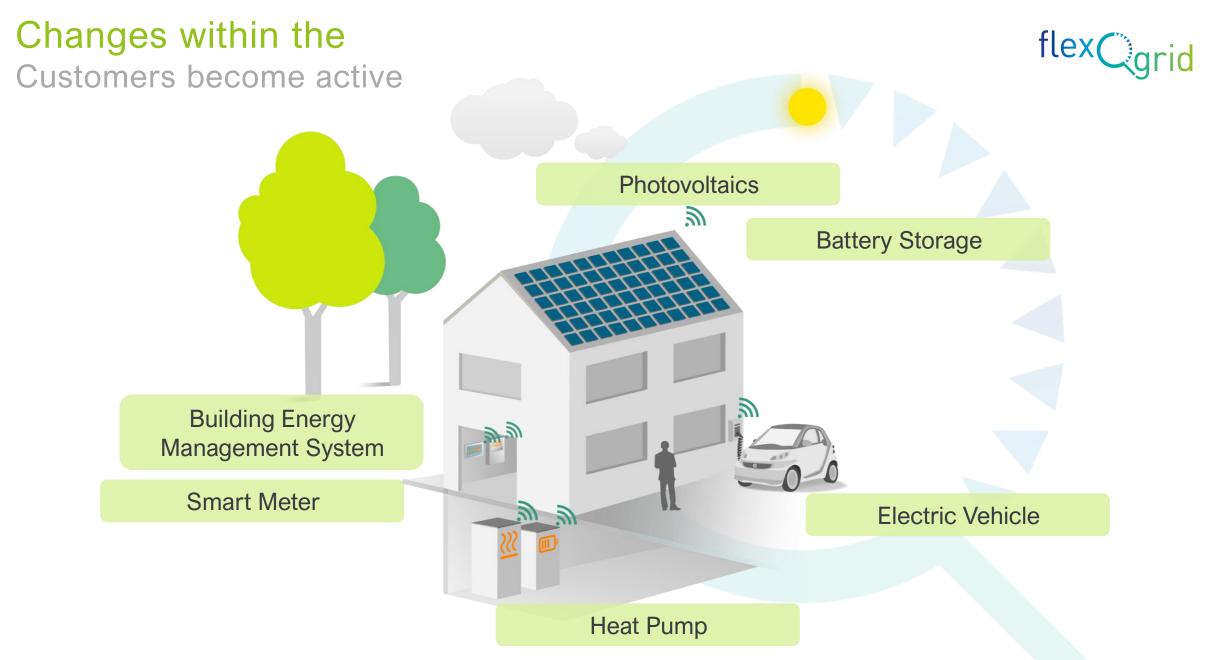
aufgrund eines Beschlusses des Deutschen Bundestages

und Energie

Transition of the energy system Distribution grid in focus

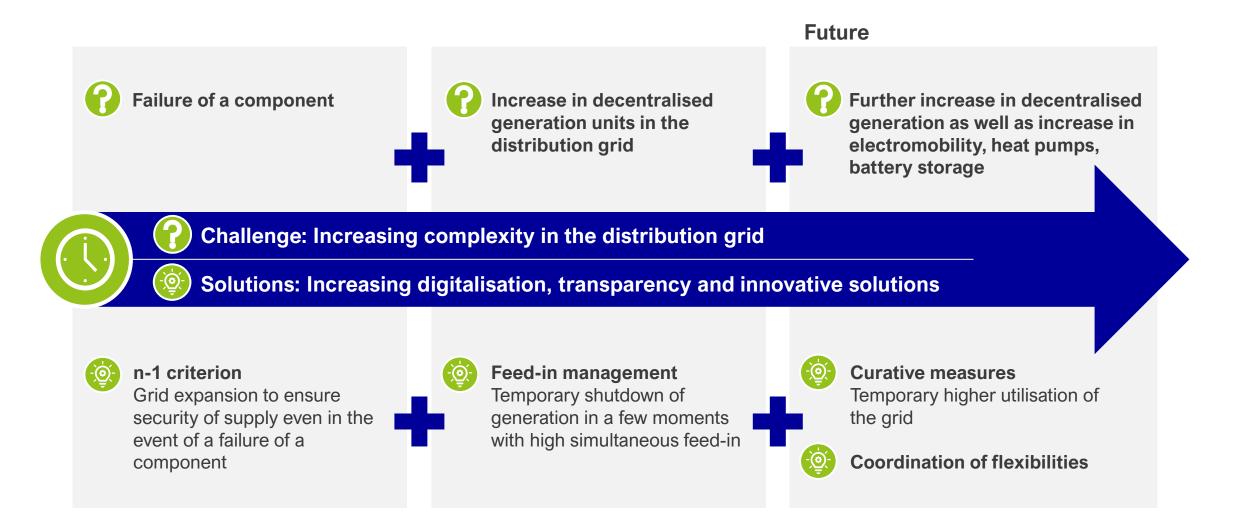


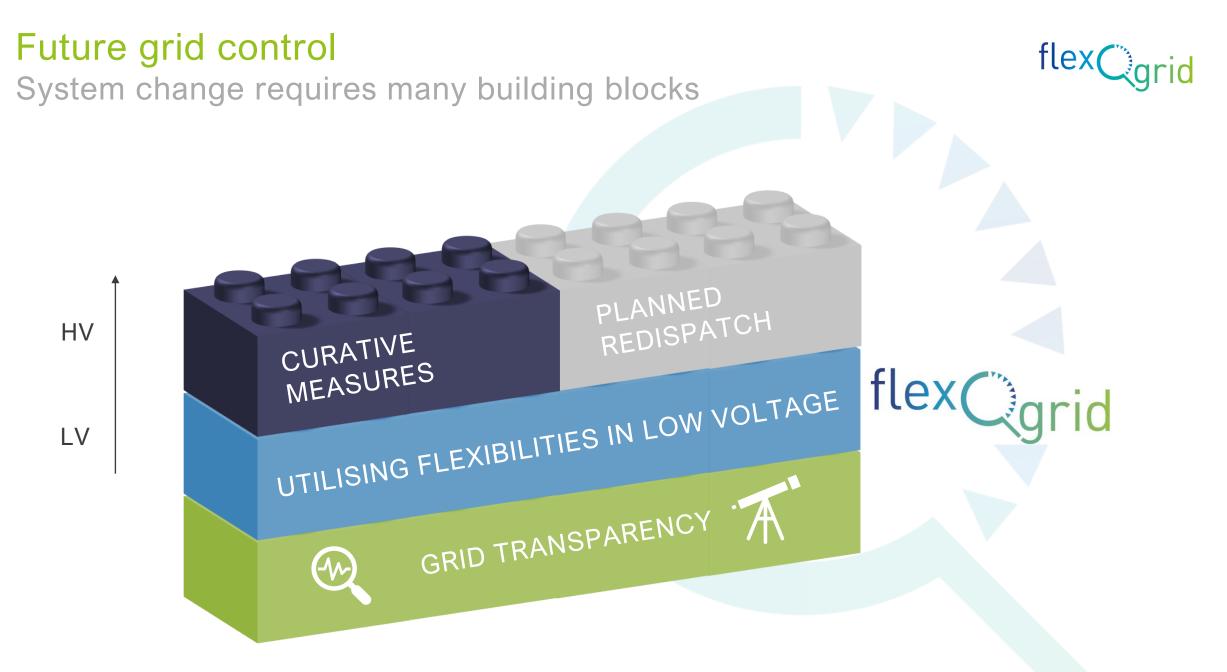




Solutions to ensure security of supply







Using flexible units in low voltage grids flexQgrid. The grid of the future becomes real.



BACKGROUND

- Increase in electromobility and heating power systems
- Increasing number of photovoltaic systems and battery storage systems
- \rightarrow Prerequisite for the grid of the future: coordination of flexibilities also in low voltage



OUR GOALS AND MISSION

Enabling energy system transformation and maximizing the use of renewable energies Integrate all decentralized systems while maintaining safe grid operation



considering all components (grid control to units in households)

> integrate all energy industry perspectives

test in real grid operation in cooperation with citizens











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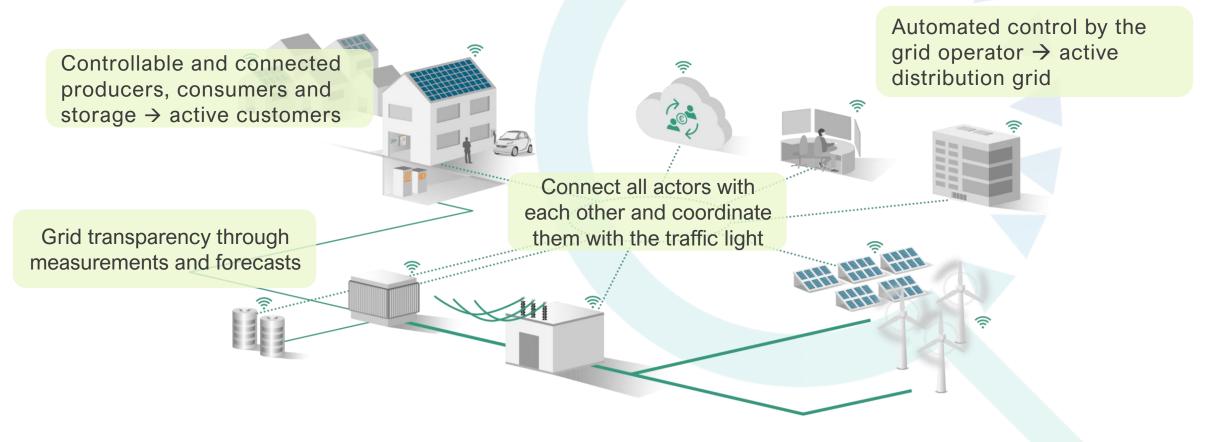
An intelligent solution for the challenges ...

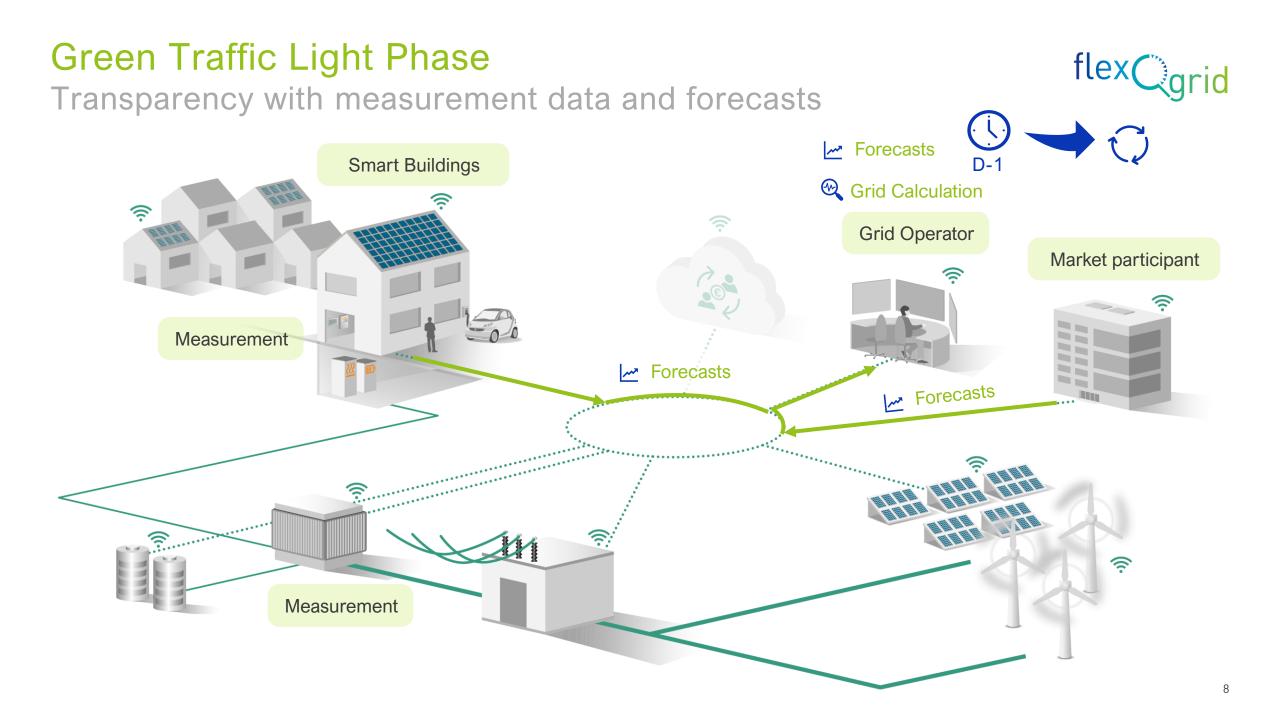
... we develop in the project flexQgrid



Coordinate systems with each other,

so that congestion do not occur in the first place and the grid is used optimally.

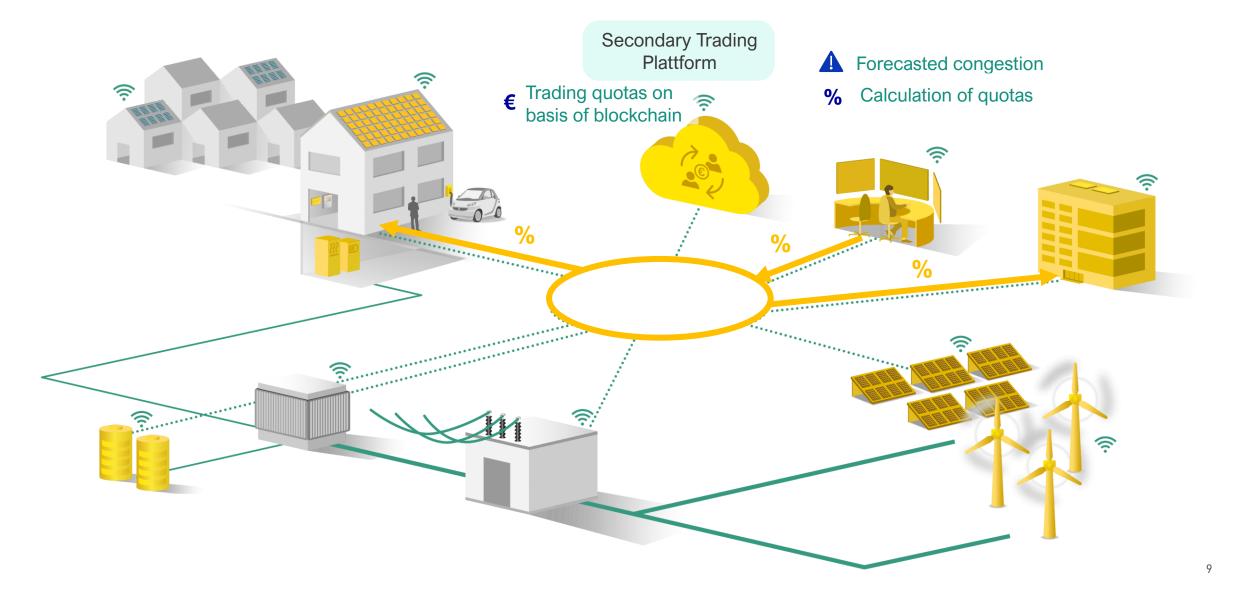




Yellow Traffic Light Phase

Avoiding congestions in advance

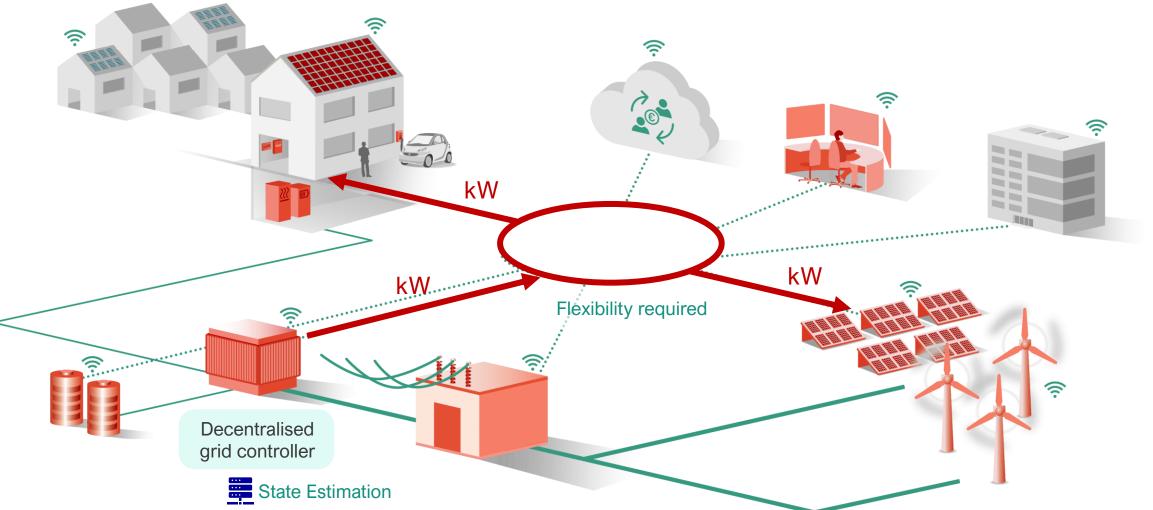




Red Traffic Light Phase

Targeted congestion management





flexQgrid. The grid of the future becomes real.



