

Our energy networks

need an update.

How E.ON is transforming a systemically relevant industry with Data, Technology & Algorithms

To secure a stable energy network, Demand and Generation need to be in balance.

Demand Generation

Electrification of heating market

Demand

Generation

Shift to eMobility

Electrification of heating market

Demand

Generation

Shift to eMobility

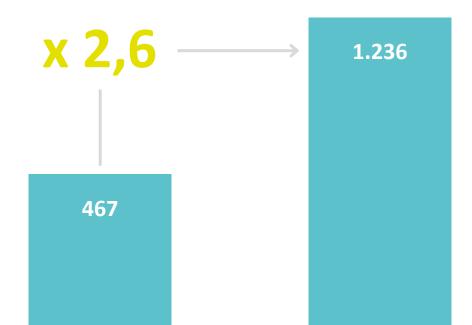
Electrification of heating market

Demand

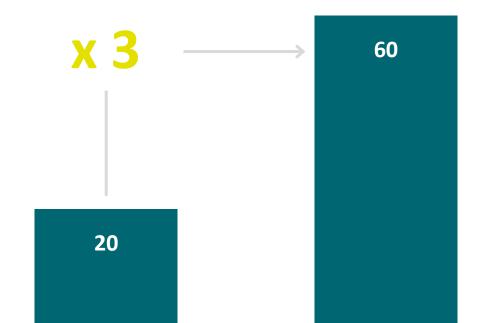
Generation

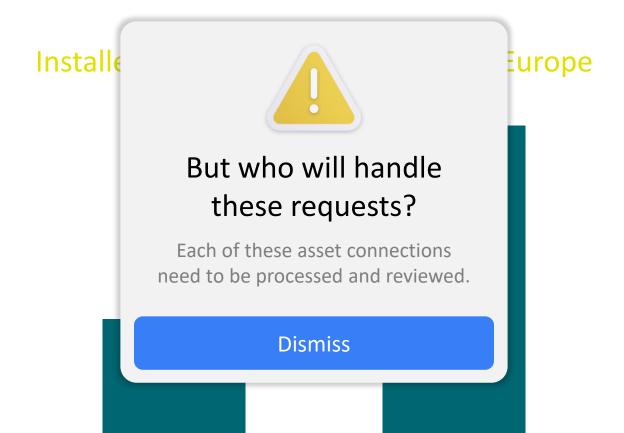
Change towards renewable energy sources

Installed renewable capacity in GigaWatt across Europe

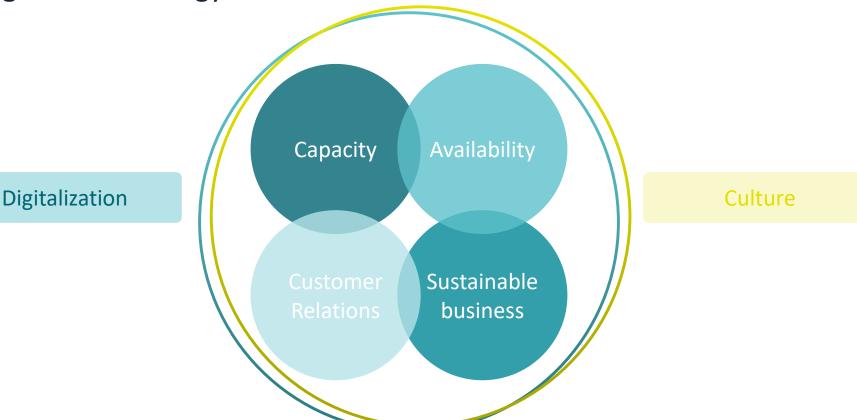


Installed heat pumps in Mio. across Europe





E.ON is committed to face these challenges and to upgrade our energy network until 2030.



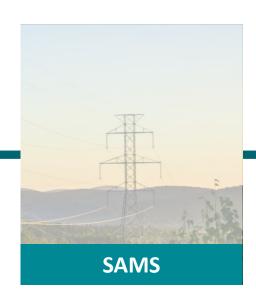


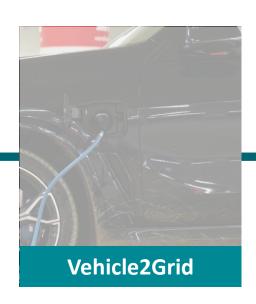
With Expert Services we are building a highly capable Inhouse-Consultancy with various competencies.





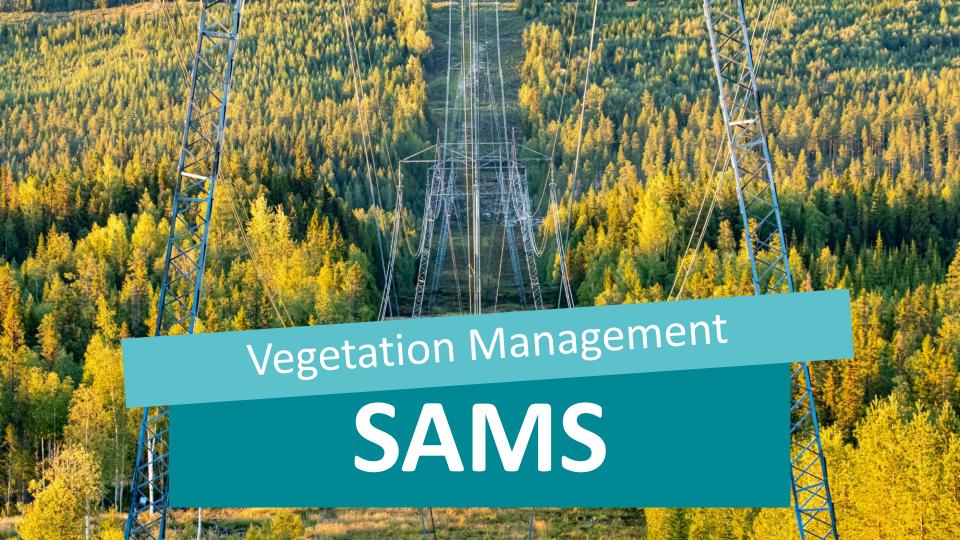
In order to achieve our ambitious targets we need to digitalize along our entire value chain.

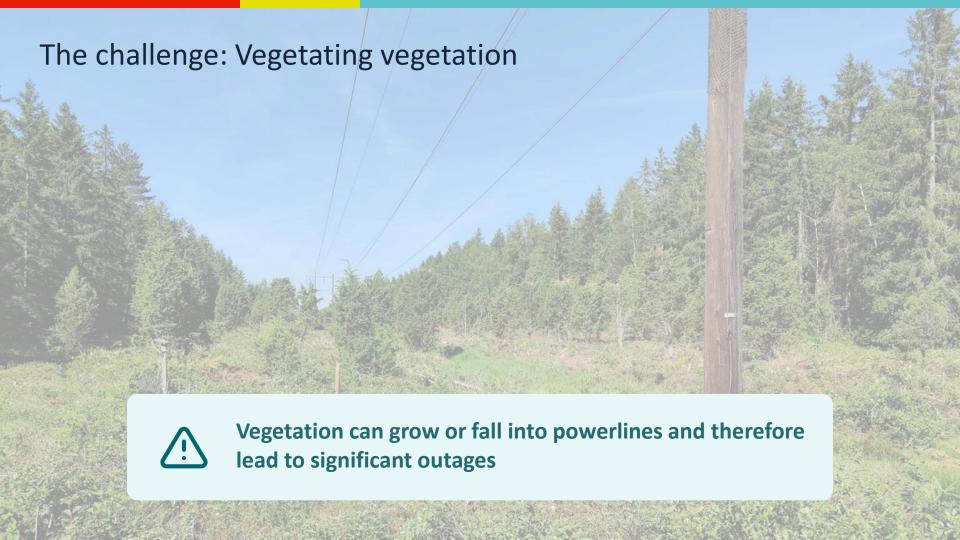


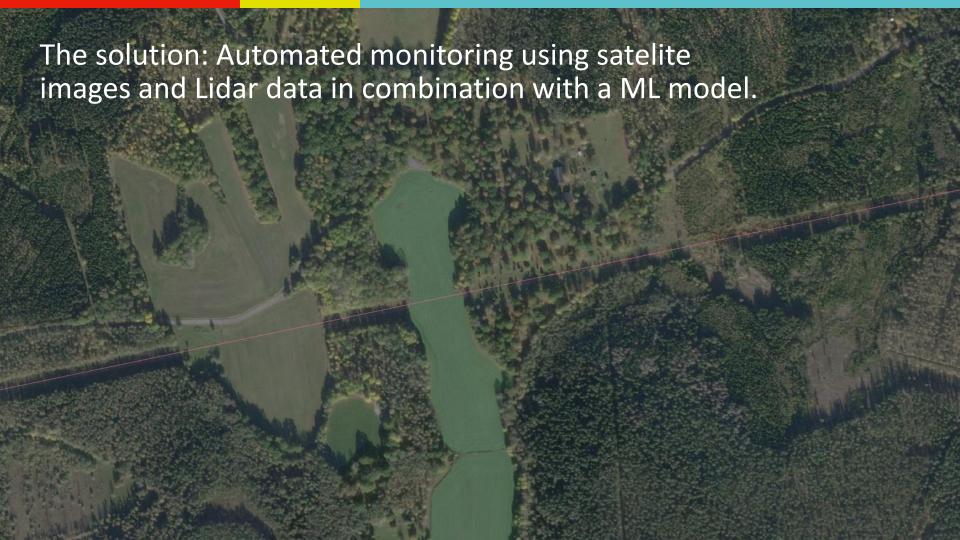


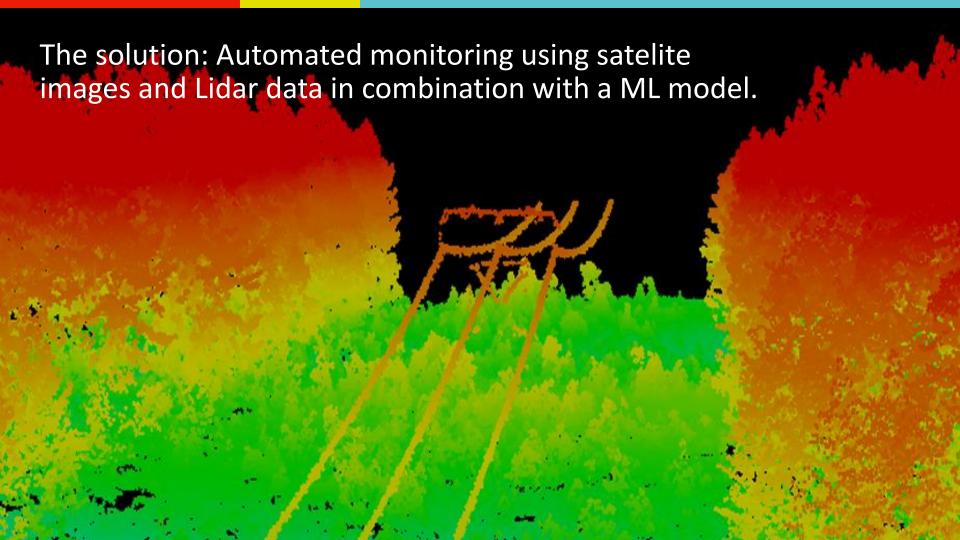


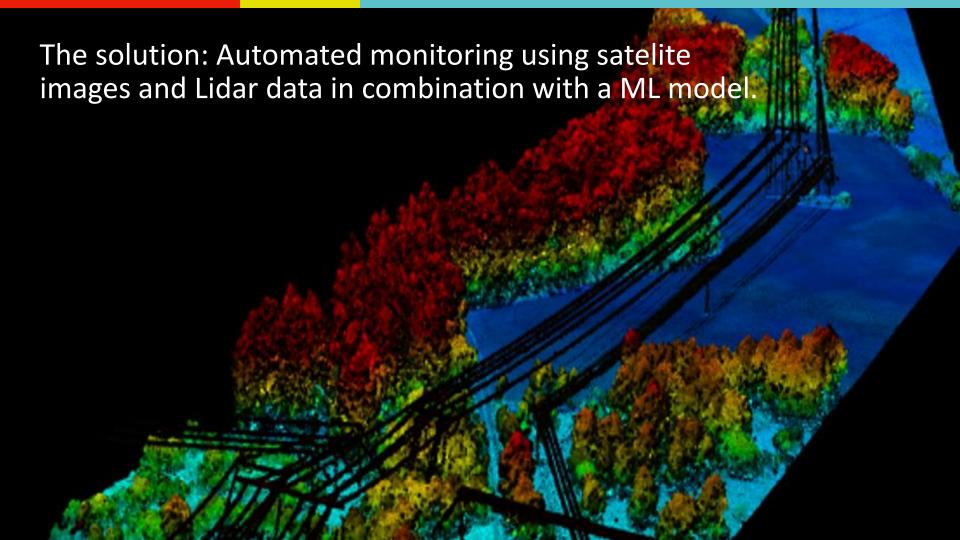






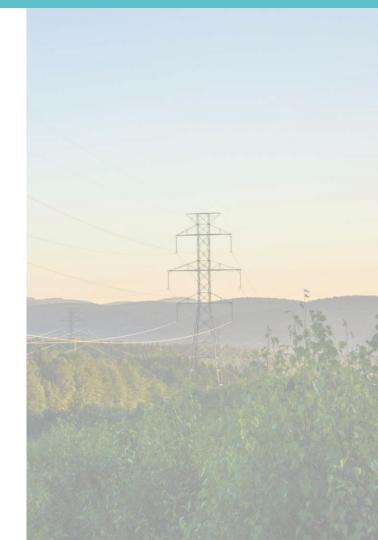






Project benefits

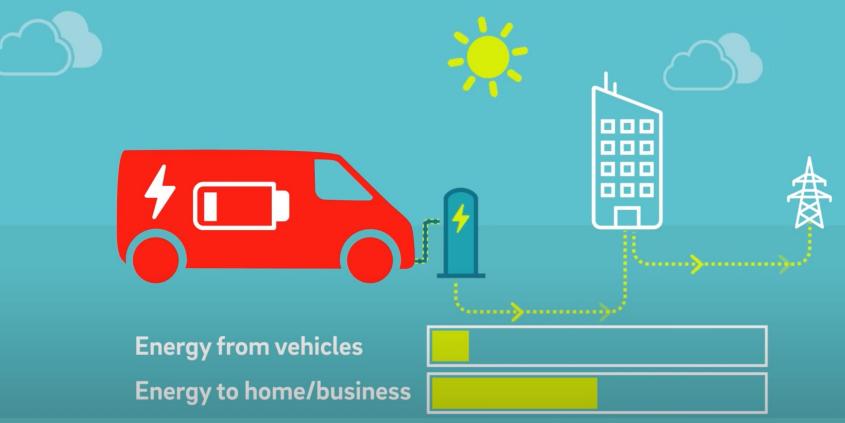
- Less power outages because of vegetation due to comprehensive risk assessment and clearing validation
- Reduction in clearing costs due to flexible, as-needed clearing planning optimization Effort based tender process
 Higher utilization of, e.g., mechanized clearing
- Less manual effort with clearing validation
- Fully integrated Ecological Corridor Management increasing landowner's and customer's satisfaction







The solution: Leverage EV batteries during daytime...



...and charge them during night-time



All packed up into an attractive offering for fleet customers.





The challenge: With an increasing number of smart devices in our network we need a way to analyse and process these vast amounts of data.

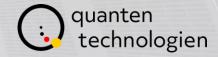




Over the next years we can expect millions of additional devices with energy-related information to be connected to the internet with tons of data to be processed.

Outlook: In order to deal with these challenges we're exploring several options to use Quantum computing, working together with universities and research groups.









Thank you.

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