

The smart potential of e-Mobility





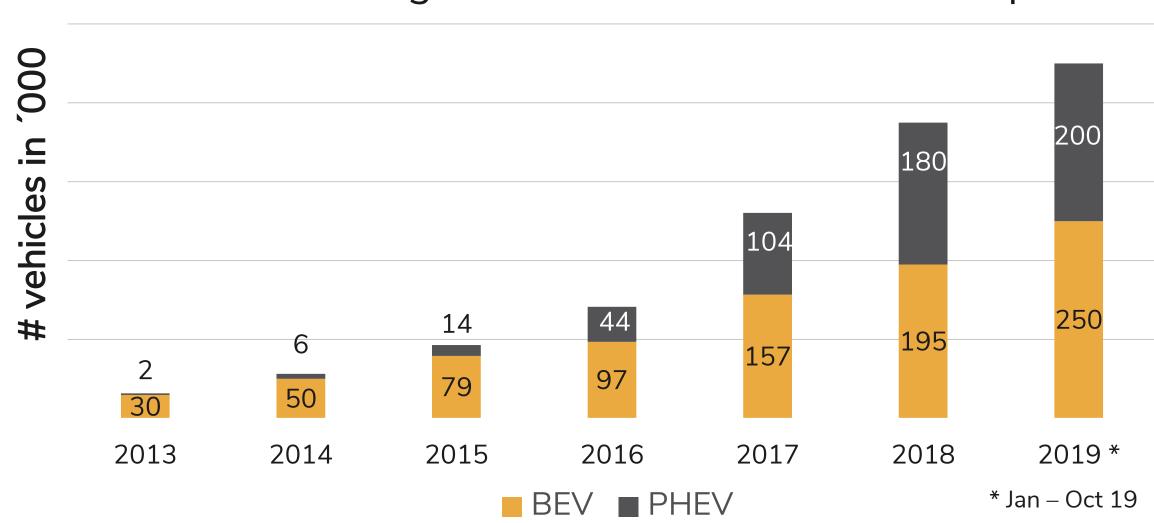
We are eeMobility!

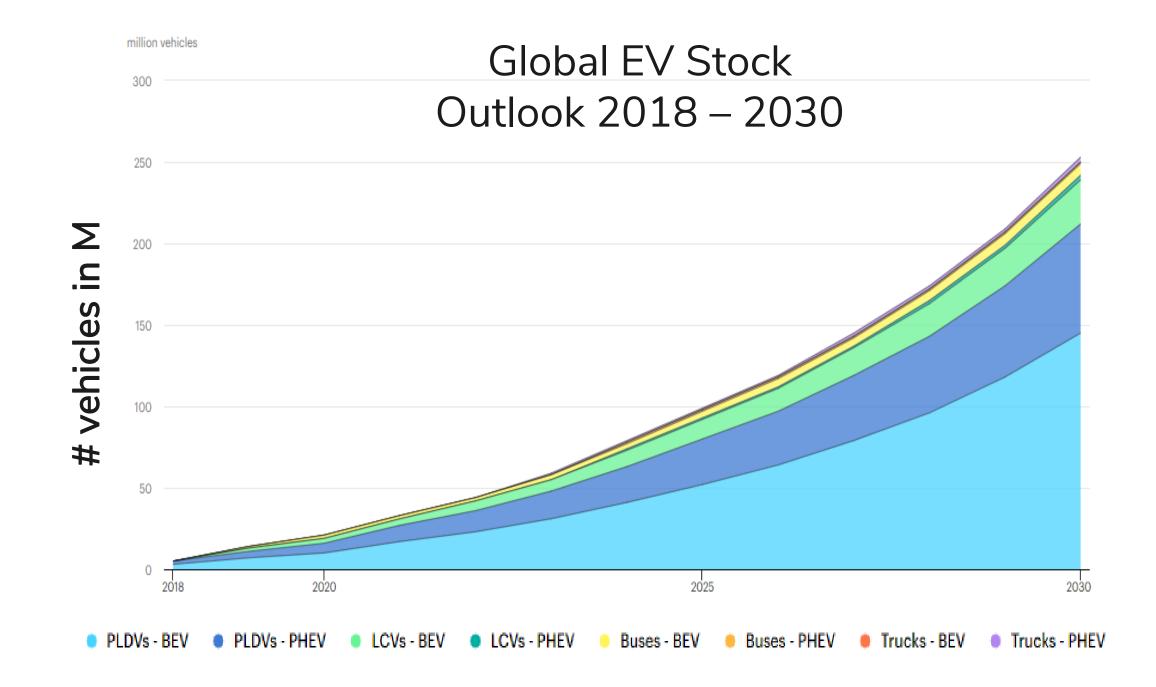


EVs on the rise...

Strong increase in EV sales



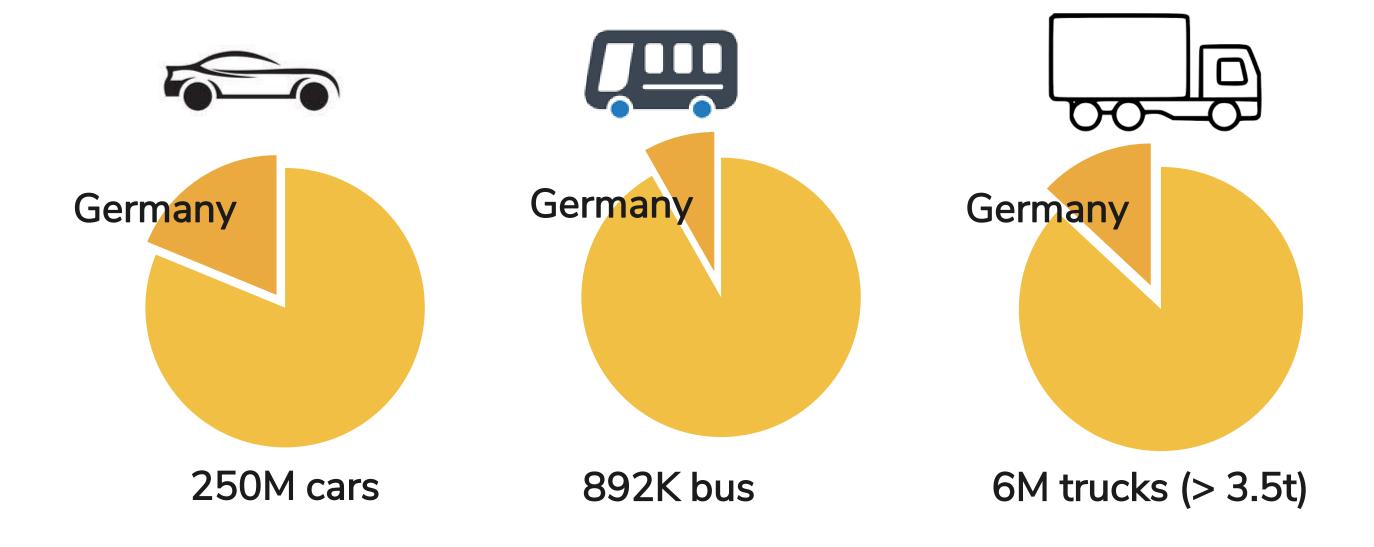




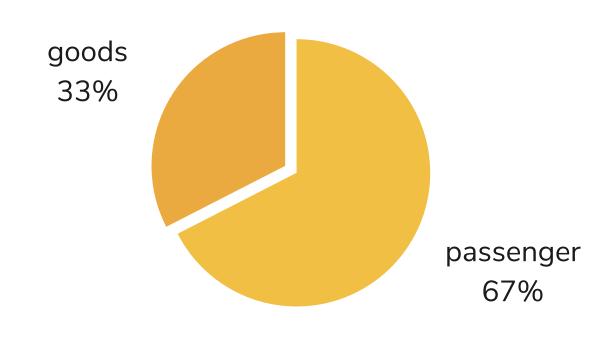


...which creates a huge new market potential...

Markets are all vehicle segments in Europe



Annual road fuel consumption Germany in power equivalent



210 TWh/a electric power



...and demand for charging services



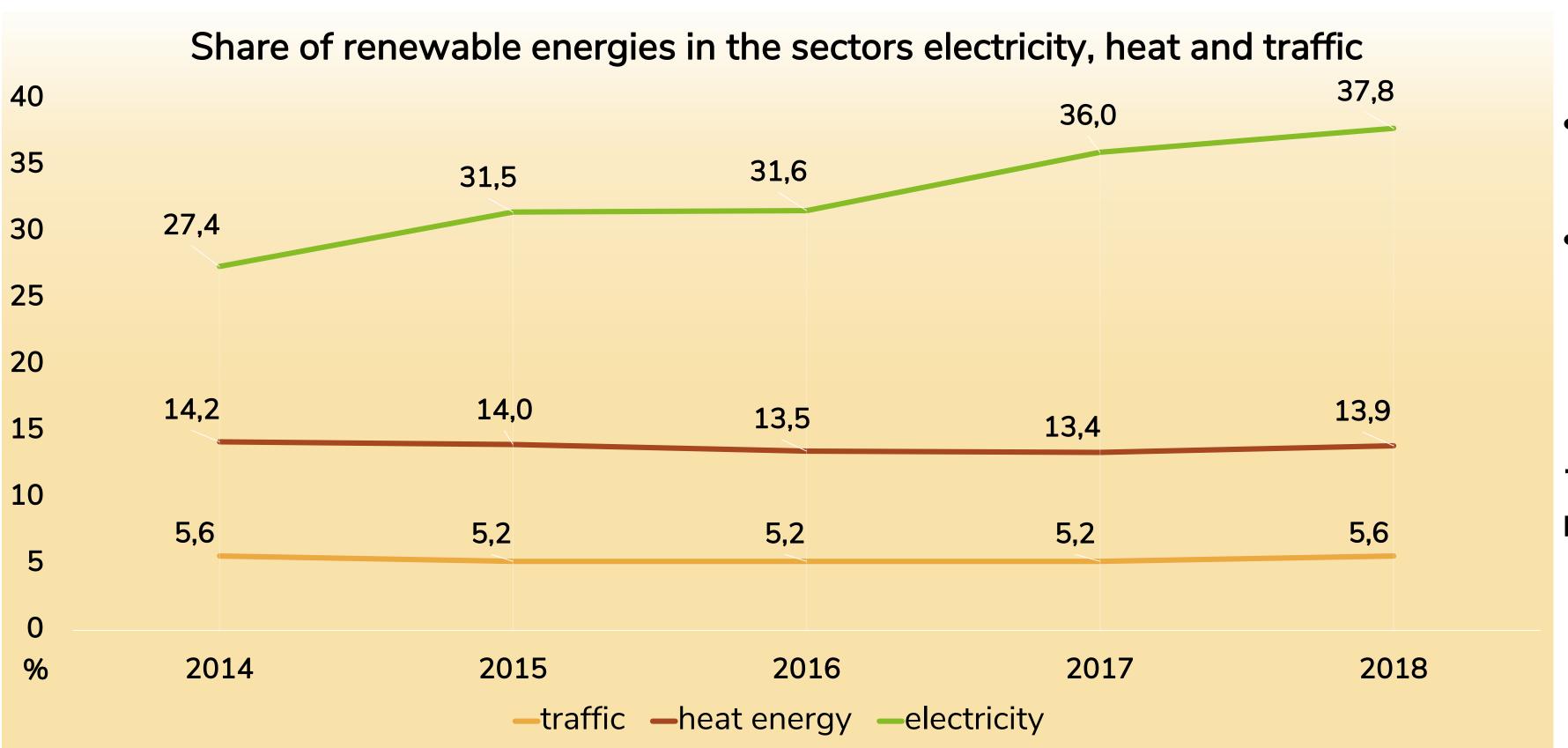




80% of charging demand @Home 15% of charging demand @Business/Destination



Renewable energies - Germany

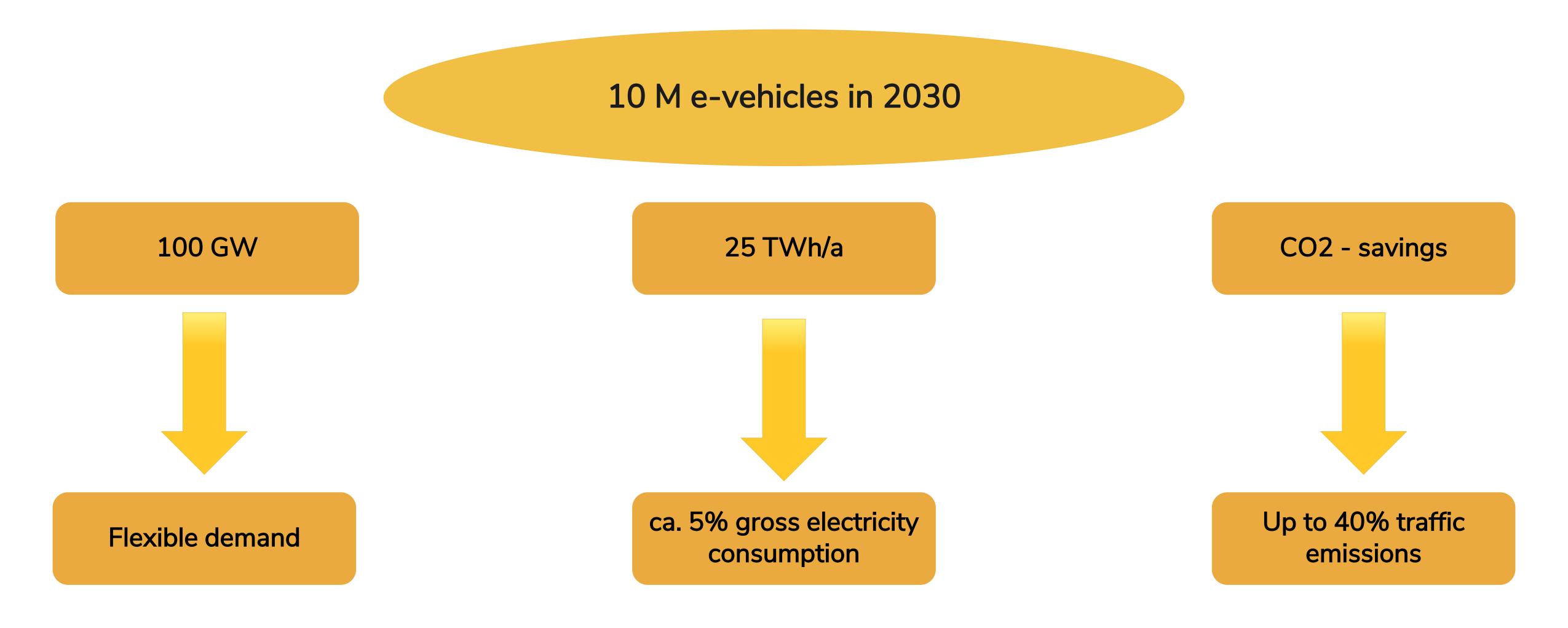


- Expansion of wind and solar increases volatility
- Decrease of nuclear and coal exacerbates volatility

→ Need for use of demand response



What happens if



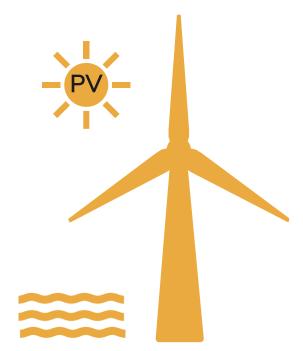
Where is the smart potential



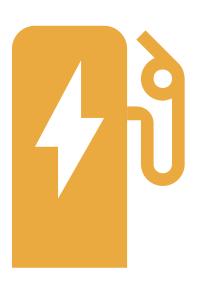
Weather forecast tools



User



Feed with renewable energy



Cha

Charge point



Pricing



In-car app

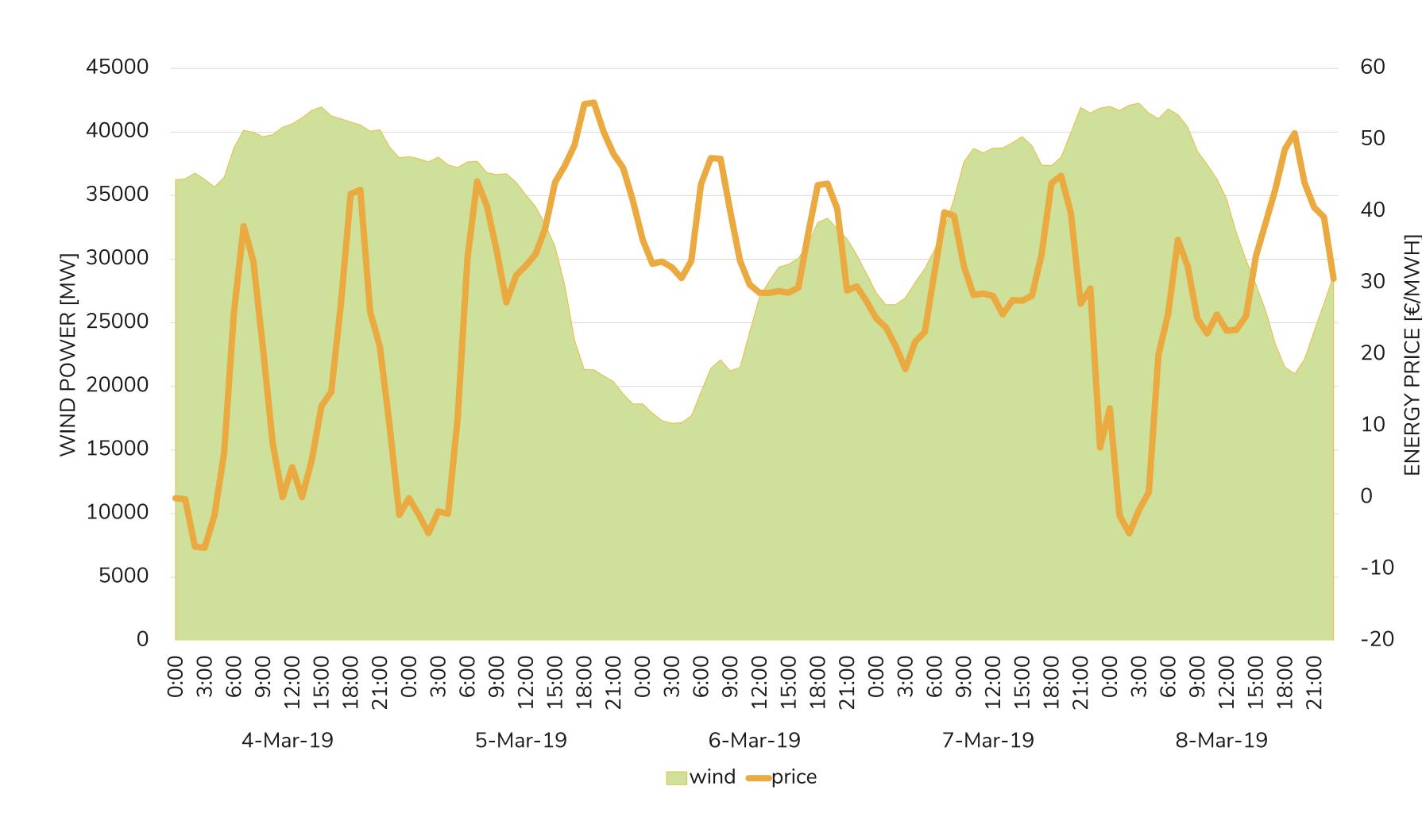


What needs to be connected

vehicles / buildings energy markets connect prosumer / integration energy market consumer



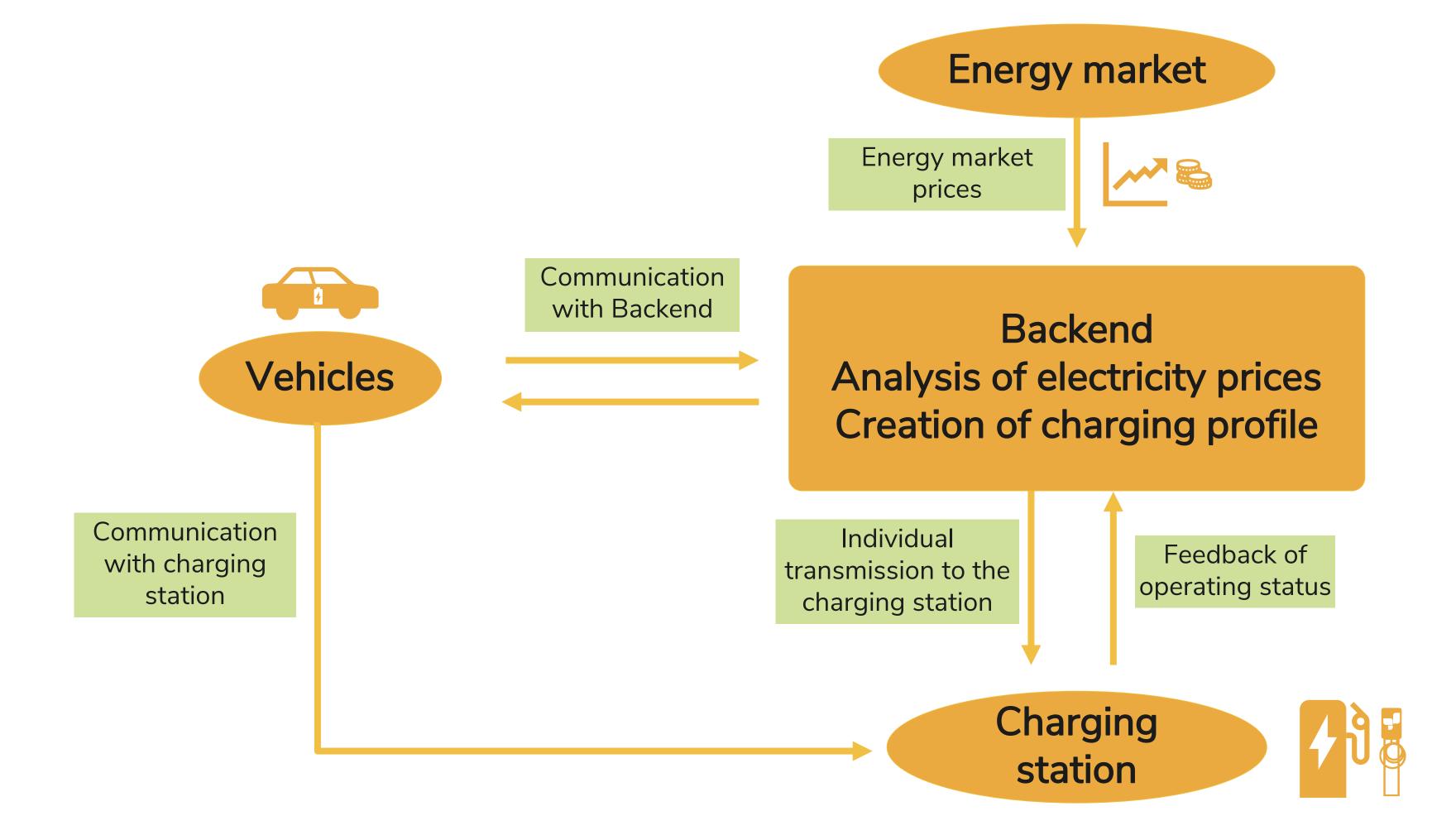
Potential benefits



- Electricity prices strongly variable
- Quarter-hour prices vary widely over trading hours
- Further expansion of renewable energies increases volatility



How could it look like

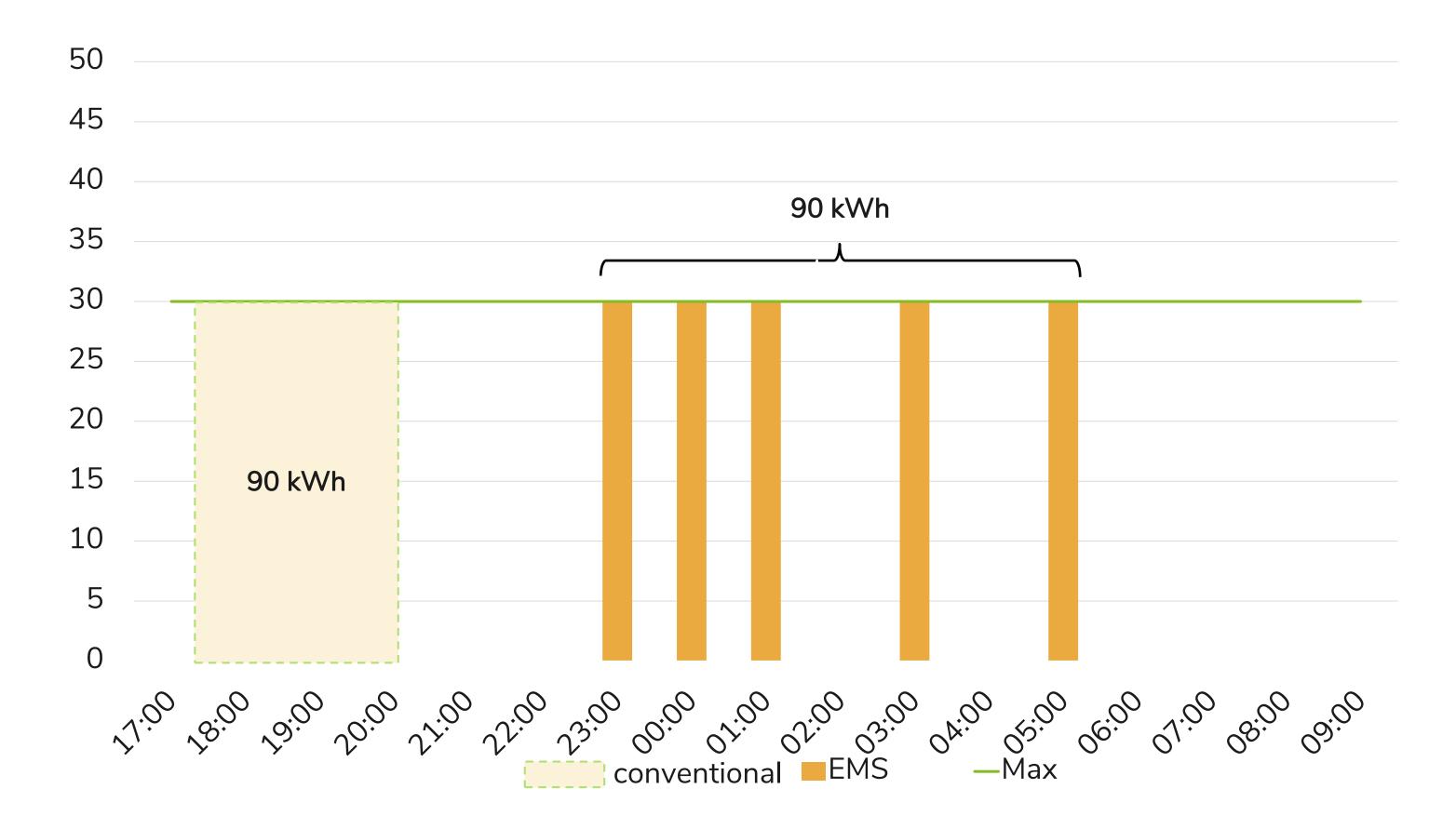




Smart Charging Roll-Out

Energy optimization

- The charging process does not directly start after plugging in the charging cable
- Connection to energy markets for optimal use of renewable energies
- The car will be charged within the smart time window of optimal 1/4 hours





The world of tomorrow

Smart charging

- Integration of charging infrastructure in building control systems
- Storage: Vehicle to grid
- Integration of PV, stationary battery storage and heat pumps
- Communication with vehicle
- Inductive charging





EINSETZEN WOFUR



Klaus Huber
Founder & Managing Director
k.huber@ee-mobility.com
eeMobility GmbH
Landwehrstraße 60-62
80336 München

www.ee-mobility.com

