



MobilityDeeply anchored in our lives



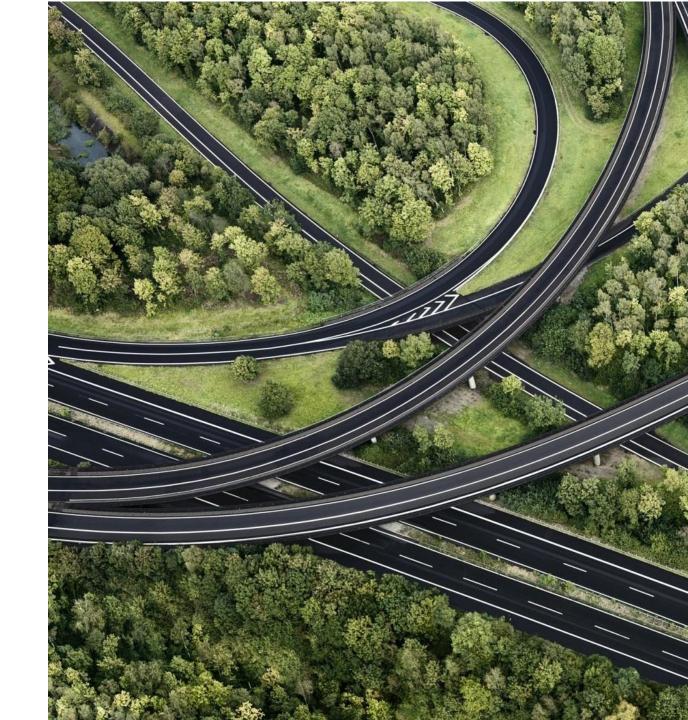
Enables what creates value for our **Society**. Has contributed a large share of our wealth.



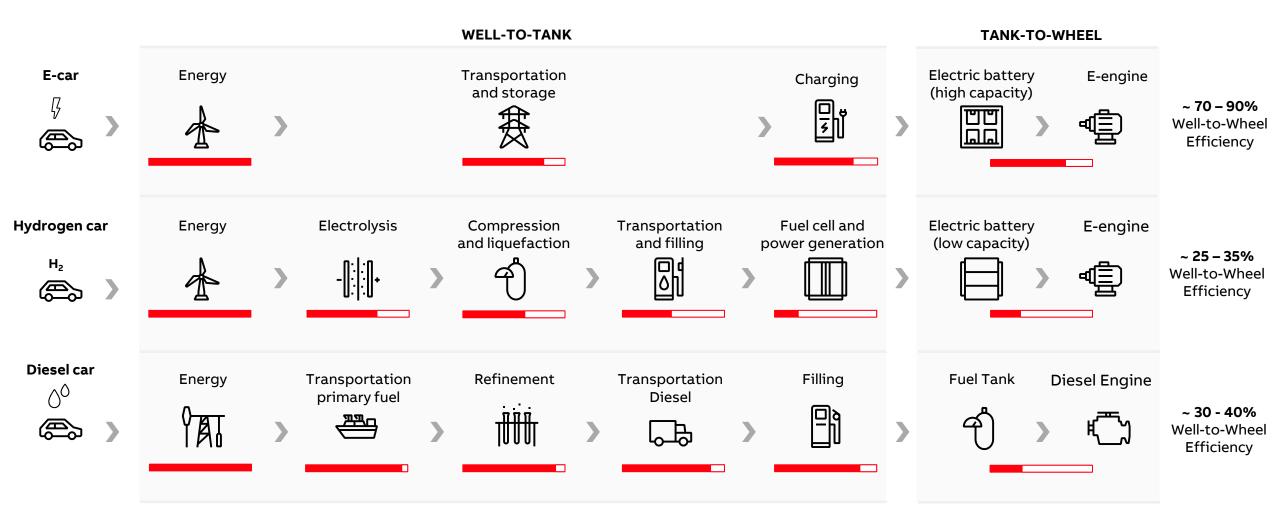
Is enabled by **Technology**, seamlessly integrated in our daily schedules. Makes moving about effortless.



Mobility takes its toll on **Environment**. From space needed for the infrastructure, to emissions from making energy accessible



Energy efficiency comparison per propulsion type





Technology as Driver of Change

Charging Power



Ease of use









"Electric cars will work for the planet while you keep on rocking your everyday life."

Technology as Driver of Change

Network expansion



Gridfriendly Solutions



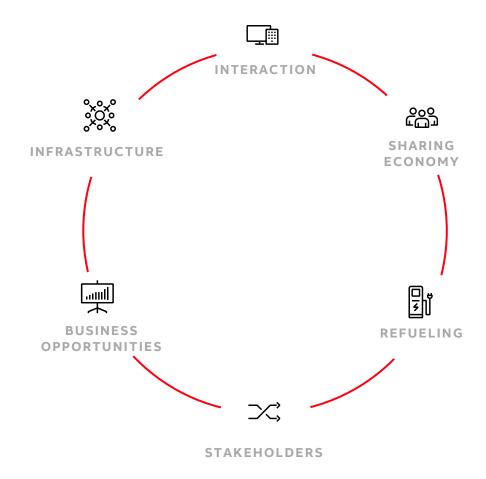
Integration of renewable energy



Transitioning from ICE to BEV

There is more to it than changing the drivetrain of a vehicle

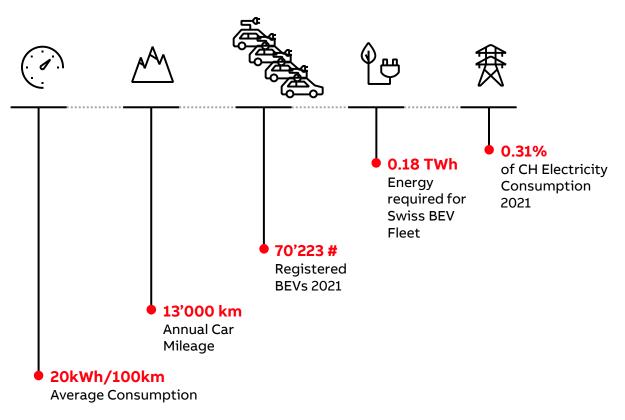


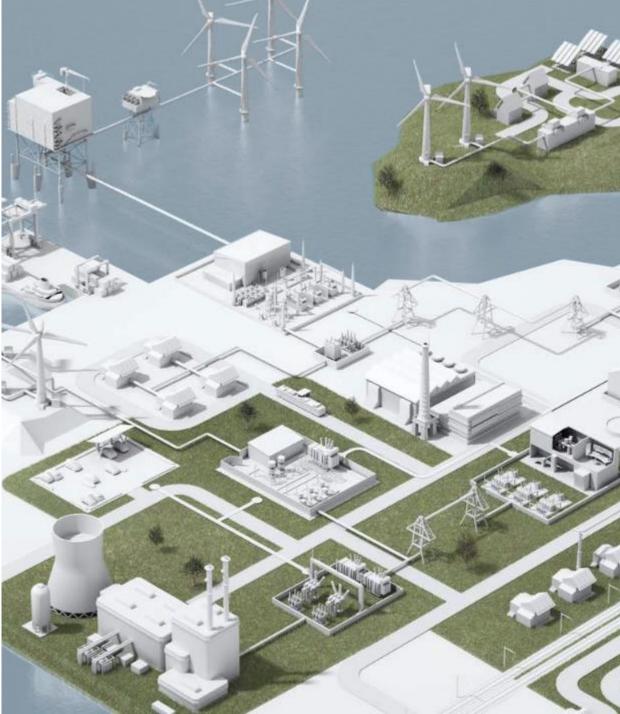




Is there enough power?

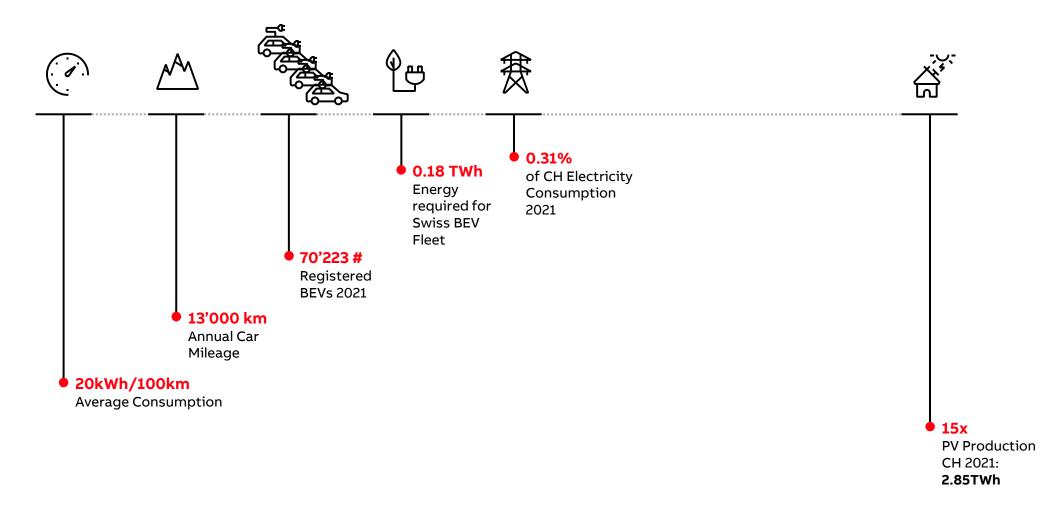
Scenario with 2021 Data





Is there enough power?

Scenario with 2021 Data





Energy Concept of the future? Neighbourhood Männedorf

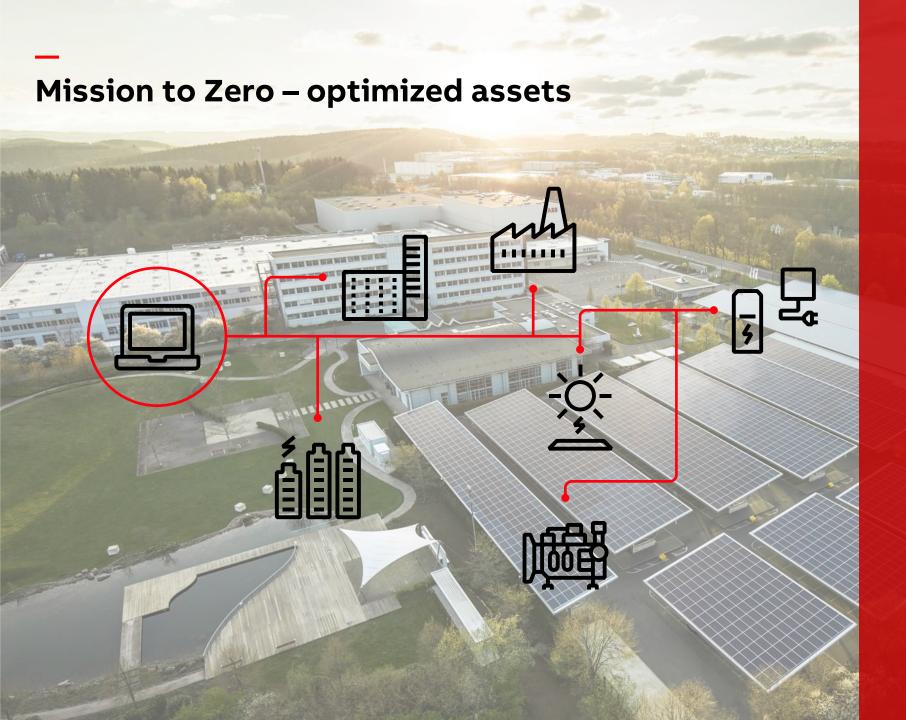
Built by the **Umwelt Arena Schweiz** in collaboration with **Empa**, the University of Applied Sciences in **Rapperswil**, and the **Klimastiftung Schweiz**.

Carbon-neutral living for 16 families

With photovoltaic modules and two wind turbines, renewable electricity is produced locally.

Supported by ABB Smart Home Technology.





- → About the site
- → 630 tons/year
 CO2 reduction
- -- about 1 100 MWh/year Power generation
- 5.75 GWh/year
 Energy requirements for administration and production
- → 200 kW

 Cogeneration of heat and power
- → 1250 kWp
 PV system
- → 200kW/275 kWh Battery storage: power/capacity
 - up to 50 kW
 Charging infrastructure for Electric vehicles

Preconditions and accelerators for a successful endeavor

