Drive and fuel technologies for road transport

Compatible with decarbonization (i. e. GHG reductions > 80 %)

Volume potential for large market share?

Commercial readiness

Fossil fuels

1st and 2nd generation biofuels

3rd generation biofuels, methanol, LOHC, redox flow batteries, ERS (ground-based and inductive systems)

Considered in detail in this study:

- Renewable electricity/battery electric drives
- Renewable H₂/fuel cells
- Renewable PtL/combustion engine
- Renewable PtG/combustion engine

- Renewable power/overhead catenary trucks
- Hybrid vehicles:
 - PHEV cars (renewable electricity/PtL petrol)
 - Overhead line hybrid trucks (renewable electricity/PtL diesel)