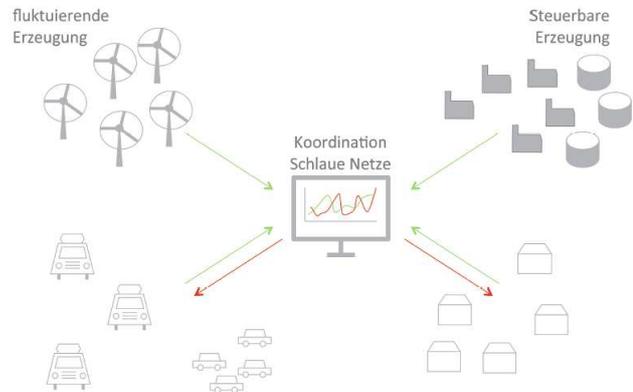


Summary of the study „The changing face of transport: Abundant mobility – well-organised, efficient, comfortable and sustainable transportation. A baseline study commissioned by BEE e.V.“ (Dr. Weert Canzler, Prof. Dr. Andreas Knie)

Results of the study

- Here’s the good news: Post-fossil mobility is possible. There is an abundance of vehicles, and public transport is well on its way towards decarbonisation. Renewable energy growth is accelerating and the production costs of regenerative electricity continue to go down. But we still have a great deal to do – it’s up to us to put this abundance to intelligent use.



- Transport is under increasing pressure: All over the world the number of licensed vehicles equipped with conventional combustion engines continues to increase. China is quickly becoming the largest market for vehicles, and here restructuring measures are already being discussed (a ban on combustion vehicles in city centres).
- Germany is holding all the aces in terms of a change in energy and transportation: Using digitization to link all modes of transport can provide one single service. Within the ‚Internet of Things‘, buses, trains, cars and bikes can be gathered together to create one ‚new automobile‘. Deployment of variable renewable wind and solar power is also helping promote the electrification of transport, while bioenergy already provides near CO₂-free mobility. Renewables profit from modern, intelligent transport organisation because the fleet management’s ‚vehicle-to-grid‘ system has a stabilising effect on the grid and can contribute to a smoothing out of stochastic residual loads. Value preferences are changing and as an abundance of facilities prevails, there is a growing trend towards ‚using instead of owning‘, as social engagement continues to gain importance.
- The political goal to embark upon a ‚new world of transport‘ is still realistic: **By 2020, 1 million CO₂-free vehicles could be driving on Germany’s roads** – if, that is, all drive forms are capable of utilising the entire spectrum of renewables on offer and all vehicles can be efficiently combined. If, by the year 2050, bioenergy-based as well as fuel cell-based and battery-powered drives are implemented, our transport system could be based solely on renewables.
- **This ‚new post fossil transport world‘ won’t just magically appear, however – it demands courageous political decision-making and ambitious frameworks. Along with a catalogue of near-term measures, this study recommends three central points critical to its success:**
 1. Setting a model emission standard of 50 gram/km for the year 2025
 2. Changing the management system of public spaces in order to create more multimodal forms of transport
 3. Significant developments in practical experiments and pilot schemes for trying out new, decentralised supply networks

For a more detailed analysis, please refer to the complete study, available at www.bee-ev.de.