

# ENERGY FUTURES - EMERGING PATHWAYS IN AN UNCERTAIN WORLD?

International conference by the Leibniz Research Alliance on Energy Transitions

May 6th - 8th 2020

WZB Berlin Social Science Center

## Application requirements

Please submit your 250-word abstracts to the session organizer(s) by December 15th, 2019. All abstracts must include a title, your name, institutional affiliation, and contact information.

## Title

Transformation of Transportation (Part 1): The new regulation forms of governing the transportation system.

## Panel Chairs

*Working Group „Energietransformation“ - German Political Science Association*

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## Abstract

For reasons of climate protection, the electrification of transport is an important element of the change in traffic. Until now, the battery-powered electric drive is the most promising candidate, especially since batteries can be produced more cheaply in the future and also become more powerful. In the longer term, the electric vehicle based on fuel cells powered by green hydrogen should also have its place, at least in the truck and other commercial vehicle sectors. However, electrification only makes sense if renewable energies are available. They are decentrally gained and at the same time fluctuate. In order to reach a balance between demand and supply of renewables, all consumption sectors - electricity, heat and transport - are increasingly coupled with each other in order to create flexibility in the overall system. This idea stands behind the technical concept of sector coupling. But the changes in transport sector is more than just on a turning point.

In order to transform the traffic, on the one hand, a binding opt-out for the combustion engine has to be defined. On the other hand, public transport and active mobility, i.e. walking and cycling at the expense of the private car, must be consistently promoted. All political levels are required, above all local politics: from a systematic management of parking spaces to the dismantling of roads and parking areas, a municipal traffic transition strategy is associated with considerable conflicts.

Against this background, a number of aspects are to be dealt with in the session, especially in terms of governance, actors and acceptance:

- Governance: change of transportation as a project in the multi-level policy and the role of experimental designs (living labs, pilot projects ...)
- Actors: Municipal strategies of transition and the role of civil society pressure
- Acceptance: Participation in the transportation transformation and forms of conflicts