

Germany energy storage for electric vehicles

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Combating climate change, new markets, less dependence on fossil fuels: mobility will be rethought in future. The development of electric mobility is a major forward-looking issue for German industry. In fact, electric vehicles can become a key element of the energy transition.

The Federal Government's aim is to make Germany a lead market and top provider in the field of electric mobility. Electric vehicles need to be able to compete, particularly on range and price, with other propulsion concepts. This means that there is a continuing need for a high level of precompetitive research and development.

In total, the Federal Government has provided over EUR2.2 billion for research and development since 2009. Four ministries are involved in providing the funding. An overview is provided by the advice on funding from the Federal Government, which is a central contact point for companies and research establishments interested in questions relating to research promotion.

This includes driveline technology, battery storage, energy, standardisation, ways to strengthen the value chain, connected cars, fleet and logistics strategies, digitalisation, grid integration, charging stations that use smart metering technology, and infrastructure.

The European Battery Alliance is the central platform for dialogue on the future of battery cell production in Europe between the European Member States, the European Commission and European industrial companies. It seeks to encourage the production of battery cells in both Germany and Europe and to ensure that the batteries produced are competitive, innovative and environmentally compatible.

The Federal Government is taking the necessary steps to create a regulatory environment in which electric

mobility can thrive, and is also providing incentives to boost the demand for electric vehicles: the measures include the purchase grant, uniform charging standards, and privileges for electric car owners, e.g. special parking arrangements.

The Federal Ministry for Economic Affairs and Climate Action has long been an advocate of a range of measures to accelerate the development of the market for electric mobility. The comprehensive package of measures aims to assist the market ramp-up of electric mobility. The focus is on three measures with a financial impact: temporary purchase incentives, the expansion of the charging infrastructure, and the purchase of electric vehicles by public authorities.

Optimum use of electric mobility requires uniform charging and payment standards. For this purpose, the Federal Government has adopted the 2016 Charging Station Ordinance. It stipulates the technical requirements for charging sockets and connectors of electric vehicles to guarantee technical safety.

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