

Electric Mobility in Germany

The National Platform and the Government program Electric Mobility

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History

- Electric Mobility part of the **Integrated Energy- and Climate Programme** (Dec 2007)
- **National Development Plan Electric Mobility** (Aug 2009)
- **Coalition agreement** CDU/CSU, FDP (Oct 2009)
- **Federal Government's Joint Unit for Electric Mobility „Gemeinsame Geschäftsstelle Elektromobilität“ (GGEMO)** (Feb 2010)
- **Joint Statement** (Federal Government and German industry) (3. May 2010)
- **„Nationale Plattform Elektromobilität“ (NPE)** (May 2010)
- **Second Report of „NPE“** (May 2011)
- **Government Programme** (May 2011)



Targets

- Having 1 Million Electric Vehicles driving on German roads until 2020
- Developing Germany as a lead provider and lead market for electric mobility by 2020
- Assurance of a sustainable mobility in Germany by using energy from renewable sources,
- Supporting the preparation of the market ramp up and the commercial launch of this new technology
- Assurance of the competitiveness of the German industry
- Expanding the German transport system into a modern and efficient intermodal range of mobility services



Expectations

- To strengthen the lead position as an competitive economy, reserarch and technology site
- To foster the implementation of renewable energy as a contribution to achieve the climate targets
- To continuously reduce the costs of electric mobility through innovation and cross sectoral collaboration
- To safeguard jobs and create new employment opportunities



Opportunities for Germany

- Electric mobility made in Germany stands for systemic solutions that crosses the boundaries of traditional branches of industry
- New materials, products, services and business models exploit the value-added potential of electric mobility
- Creation of new value chains in innovative production and manufacturing
- German education and training to create top class scientists, engineers and specialists



National Platform Electric Mobility

- Constitution **3. May** 2010 in Berlin
- First institutional platform for the intersectoral dialogue in the field of Electric Mobility
- **147 high representatives of stakeholder** work on relevant topics in 7 working groups.
- Networking and bundling **all relevant stakeholder from** industry, academia, politics, unions and civil associations.
- Steering committee for the coordination of the platform.



NPE's Working Groups

- AG 1 Drive train technologies
- AG 2 Battery technologies
- AG 3 Charging infrastructure and grid integration
- AG 4 Standardisation and certification
- AG 5 Materials and Recycling
- AG 6 Education and qualification
- AG 7 Framework - Regulations



Objectives of the National Plattform Electric Mobility

- Market preparation over the period to 2014, focusing on research and development and showcase projects
- Market ramp-up over the period to 2017, focusing on the commercialization of vehicles and infrastructure
- Launch of mass marketing over the period to 2020 with viable business models



The German governments approach

The players:

- Ministry of transport, building and urban development
- Ministry of economics and technology
- Ministry of research and education
- Ministry for environment, nature conservation and nuclear safety



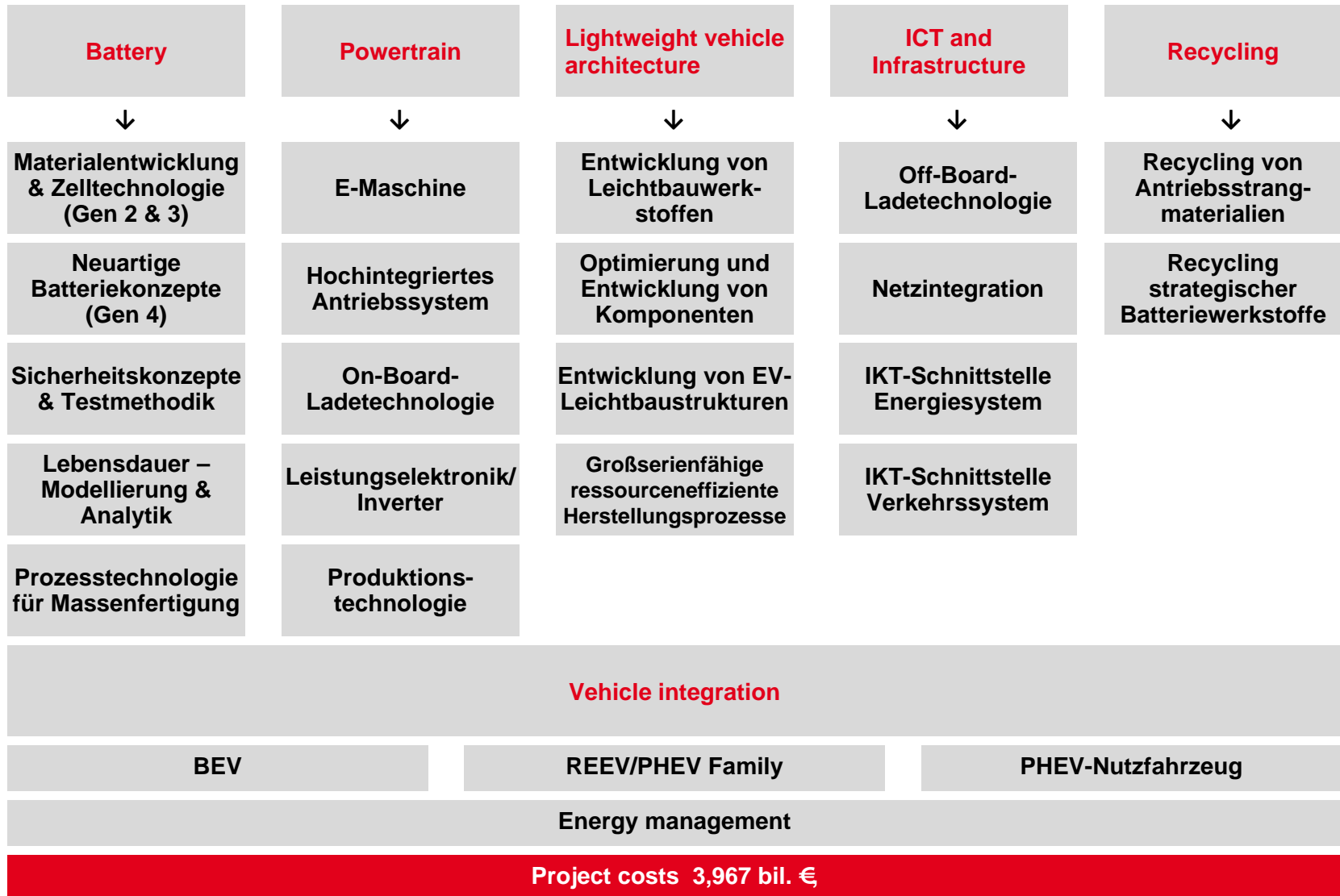
The government program Electric Mobility Measures (II)

Joint **R&D programme** to accelerate the roll-out of electric mobility:

- **one billion** € will be made available until the end of 2013
- R&D must focus on key technologies for future vehicles especially on
 - cells and batteries
 - electric vehicles
 - Charging infrastructure and vehicle to grid integration
- Lighthouse projects will promote innovation in these technologies and pool the competencies from different sectors
- Support will be in line with the recommendations of the NPE



R&D: Lighthouses



The government program Electric Mobility Measures (III)

Electric mobility „**showcase program**“

- To improve the visibility of innovative technologies in an early phase
- To demonstrate electric mobility in all days life
- To speed- up the roll-out of electric mobility
- The showcase projects are bundling and focussing all activities covering the entire system (systemic approach = energy + vehicles + traffic integration)
- Low number (3 – 5) large scale showcases



The government program Electric Mobility Measures (IV)

- Support training and skills to the necessary specialists and managers on the basis of the skills roadmap of the NPE
- Support the standardization with a strategic and global direction on the basis of the electric mobility standardization roadmap.



The government program Electric mobility Measures (V)

Non monetary incentives

- Use of bus lanes
- Priority parking, especially at public charging points
- Creation of special lanes

All incentives are to be tested in the showcase projects



The government program Electric mobility Measures (VI)

- Financial incentives
 - Exemption from vehicle taxes for 10 years
 - Adaptation of company cars taxation
 - Marking of zero emission vehicles (as basis for privileges)
 - From 2013 10% of the new vehicles of the federal ministries fleets should comply with an emission target of 50g CO₂
 - Support the purchase of electric cars in vehicle fleets; e.g. car sharing that are accessible to the general public. The support will be given within the „electric mobility showcases“



Thank you for your attention

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