



India going for Sustainable Mobility



EVs are soaring

Sales 2017

China	777 T (+ 53 %)
US	194 T (+ 24 %)
Norway	62 T (+ 39 %) – market share 39,3 %
Germany	54,5 T (+ 117 %)



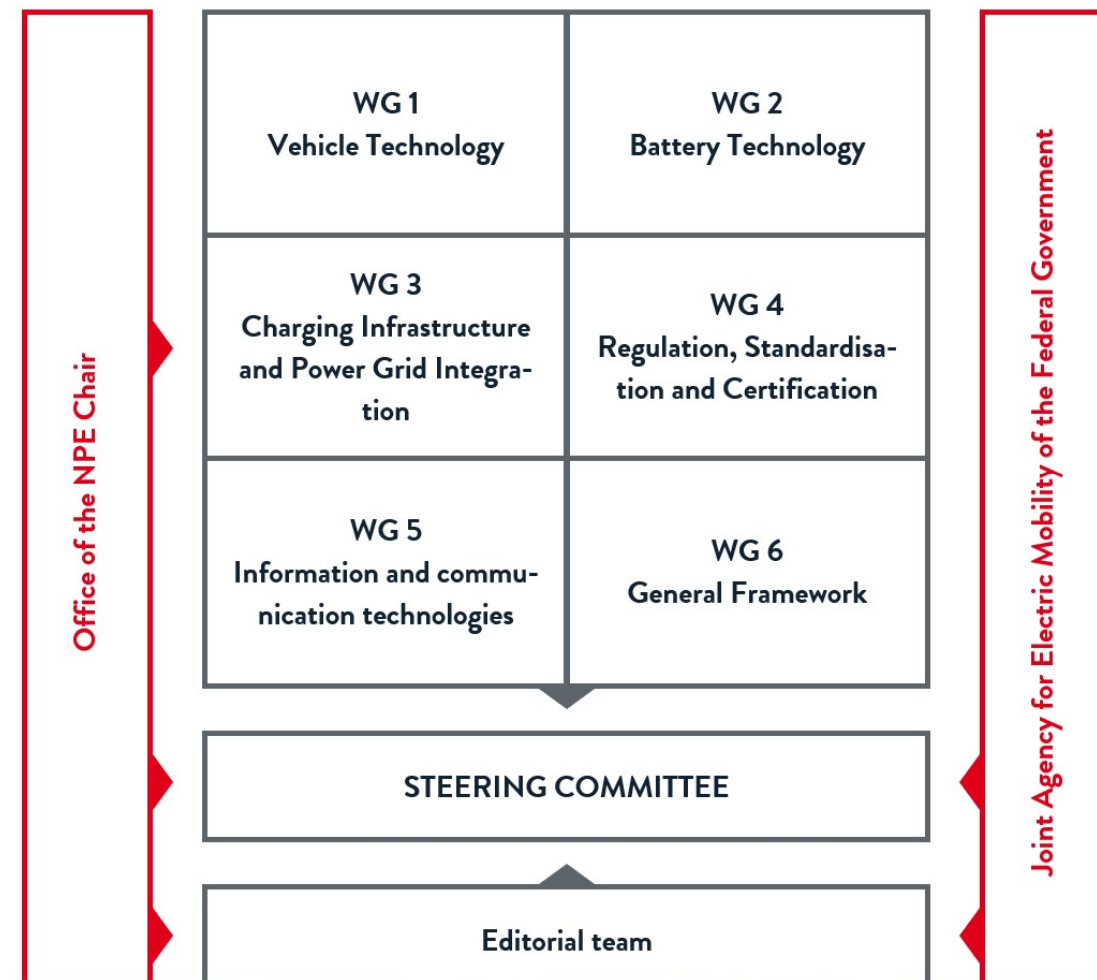
How is India part of the Change?



Germany founded National platform on e-mobility NPE

150 representatives from industry, science, politics, trade unions and trade associations are advising government for strategic dialogue

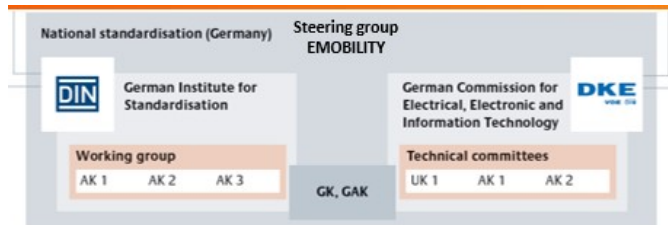
<http://nationale-plattform-elektromobilitaet.de/en/the-npe/organisation/>



India: Solutions are sought with



EVs + Charging infrastructure require many changes in regulations



Bodies within DIN/NAAutomobil

- NA 043-01-27 AA: IT Security Techniques
- NA 052-01-03 AA: Electrical and electronic equipment
- NA 052-01-03-01 AK: Data communication
- NA 052-01-03-03 GAK: Joint working group DKE/NAAutomobil, EMV (DKE/UK 767.13)
- NA 052-01-03-04 AK: Electric vehicle cables
- NA 052-01-03-05 AK: Fuses
- NA 052-01-03-06 AK: Plug connections
- NA 052-01-03-13 AK: Environmental conditions
- NA 052-01-03-16 AK: Functional safety
- NA 052-01-03-17 AK: Communication /EV power grid
- NA 052-01-21 AA: Electric road vehicles
- NA 052-01-21-04 AK: Vehicle systems for electric propulsion
- NA 052-01-21-05 AK: Wireless charging
- NA 052-01-26-01 AK: General requirements for road vehicles

Bodies within DKE

- DKE/K 116: Graphic symbols for man-machine interaction; safety marking
- DKE/AK 221.1.11: System approach to electric vehicle connection (protection against electric shock)
- DKE/K 261: System aspects of electric power supply
- DKE/K 331: Power electronics
- DKE/K 353: Electric road vehicles
- DKE/AK 353.0.6: EMC in supplying energy to electric vehicles
- DKE/AK 353.0.7: Battery changing systems
- DKE/AK 353.0.8: User authorisation in charging infrastructures
- DKE/K 371: Accumulator batteries (development of standards for batteries and their requirements)
- DKE/UK 411.2.8: Cables for electric vehicles
- DKE/GAK 431.1.7: Distributors for temporary connection to consumers (GAK within DKE)
- DKE/K 461: Electricity meter
- DKE/AK 541.3.7: Monitoring and switch-off device for mode 3 charging
- DKE/AK 542.1.2: Household plug accessories
- DKE/K 764: Safety in electromagnetic fields
- DKE/GUK 767.14: Radio interference suppression of vehicles, vehicle equipment and combustion engines
- DKE/AK 952.0.15: Information protection in the network and station control system
- DKE/AK STD 1113.0.3: Use Cases for E-Mobility
- DKE/K STD1911: Steering committee standardisation of "E-Energy/ Smart Grids"
- DKE/UK STD1911.5: Network integration electromobility for E-Energy/Smart Grids
- DKE/UK STD1911.11: Information security for E-Energy/Smart Grid
- DKE/STD 1911.11.5: Information security for electromobility

India: Solutions are sought with



Thank You

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