IA-HEV Mission

- Produce and disseminate balanced, objective information about advanced electric, hybrid, and fuel cell vehicles.
- Enable member parties to discuss their respective needs, share key information, and learn from an ever-growing pool of experience from the development and deployment of hybrid and electric vehicles.
- Collaborate under the International Energy Agency (IEA) framework

www.ieahev.org

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## EV/PHEV Statistics

<table>
<thead>
<tr>
<th>Region</th>
<th>Motorbikes</th>
<th>Passenger Vehicles</th>
<th>Trucks</th>
<th>Buses</th>
<th>Total EV</th>
<th>Motorbikes</th>
<th>Passenger Vehicles</th>
<th>Trucks</th>
<th>Buses</th>
<th>Total PHEV</th>
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### Status Quo 12/2014:
- According to official sources of members of the IEA-HEV there are about 685,000 EV/PHEV passenger cars on the road
- Given the current growth rate, 1 Mio will be reached in 2015
IA-HEV Tasks

Task 1, Information Exchange  Collects, analyzes, and disseminates information

Task 21, Accelerated Ageing Testing for Li-ion Batteries  Collaboration for Li-ion ageing testing

Task 22, E-Mobility Business Models  Understanding the revenue opportunities

Task 23, Light-Electric-Vehicle Parking and Charging Infrastructure  Identifies and addresses issues with e-scooters, e-bikes and pedelec

Task 24, Economic Impact Assessment of E-Mobility  Performs SWOT analysis of key indicators associated with e-mobility

Task 25, Plug-in Electric Vehicles  Studies information and current variables related to PHEVs

Task 26, Wireless Power Transfer for EVs  Develop a greater global understanding of WPT systems and interoperability through country-based standards study

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IA-HEV Tasks

Task 27, Electrification of transport logistic vehicles (eLogV)  Summarize implementation hurdles and identify early niche markets and commercialization opportunities

Task 28, Home grids and V2X technologies  Analyzing technical and economic viability of V2X technology

Task 29, Electrified, connected and automated vehicles  Explores possibilities for synergies between connectivity, automation and electrification of vehicles

Task 30, Assessment of environmental effects of electric vehicles  Collects and analyzes environmental benefits of EVs in comparison to conventional vehicles

Task 31, Fuels and energy carriers for transport  Provides a comprehensive overview of different fuel and drivetrain options
IA-HEV Results
Task 29: Electrified Connected and Automated Vehicles

Objectives:

• Analyze the potential **technological synergies** of electrification, connectivity and automation of road vehicles and derive research, development and standardization needs

• Study the **business models** combining electrification and connectivity / automation of road vehicles and identify need for action by companies and/or governments

• Assess the impact of **user / driver behavior** on the combination of electrification, connectivity and automation and conclude on needs for measures in awareness and legislation

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Task 29: Synergies

Energy Efficiency
Follow Me Function
Self Driving Shuttles
On Route Charge
Robot Car
Small and Lightweight

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IEA Implementing Agreement
Hybrid and Electric Vehicles

... also a valuable source of information for the European Electrification Roadmap in the Strategic Transport Technology Plan (STTP)

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