European Green Vehicles Initiative

PPPs Information Days

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European Green Vehicles Initiative cPPP

Context
Green Cars Initiative (2009-2013)

- Public Private Partnership of the industry and the EU, within the European Economic Recovery Plan

- Implementation through the 7th Framework Programme, with €500 Mn EU funding over four years

- Main objectives: climate protection, energy security, reduced local emissions, safety, traffic fluidity, and global competitiveness of the automotive industry

- Major focus on electrification (2/3 of budget)
Green Cars Initiative (2009-2013)

- Three pillars:
  - Electrification
  - Long Distance Trucks
  - Logistics and Co-modality

- Implemented by three European Technology Platforms:
  - [ERTRAC](#)
  - [EPoSS](#)
  - [SMARTGRIDS](#)

- Representing the commitment and the shared vision of the involved industries to set objectives critical to the EU industrial competitiveness and identify research priorities

- More than 100 collaborative research projects launched over the four-year period
Continuation in H2020 context

- ‘Smart, Green, and Integrated Transport’ as major Societal Challenge for Europe

- Establish the private side as European Green Vehicle Initiative Association EGVIA

- Launch of the European Green Vehicles Initiative cPPP, involving the automotive, smart systems and smart grids industries

- Acting to meet common objectives:
  - Delivering **green vehicles and mobility system solutions** matching major societal, environmental and economic challenges ahead
  - Impacting on the **innovative strength and global competitiveness** of the European economy
EGCI/EGVI implementation scheme

Private side
- Consultations
- Monitoring
- Select Topics
- Collaborative Projects
- Multi-annual Roadmap
- Prioritisation
- Assessment
- Call
- Recommendations
- Proposal

Public side
- Joint Funding
- European Commission
- Work Programmes and Calls for proposals

ERTRAC / EPoSS / Smart Grids
SRA and Long-Term Roadmaps

European Green Vehicles Initiative
European Green Vehicles Initiative cPPP

Scope and Content
European Green Vehicles Initiative
Scope definition

- Revised scope to cover all types of road transport vehicles: passenger cars, trucks, buses, L-category vehicles, new vehicle concepts
- Defined goal and focus: energy efficiency of vehicles and alternative powertrains
- Topics responding to this goal fall within the scope of the EGVI PPP:
  - Development of technologies at all product layers: modules, systems, vehicles
  - Integration of resources into modules
  - Integration of vehicles into the infrastructure
Focus of the Green Vehicles Initiative

Example of technology content covered

- **Resources**
  - Alternative / lightweight materials
  - Alternative fuels and energies
  - Advanced materials, Equipment, Nano- / Microtechnologies

- **Integration**
  - Advancement and adaption of resources for green vehicles

- **Modules**
  - Processing, integrating advanced (lightweight) materials & technologies
  - Electrification & hybridization; Components for sensing & control;
  - Energy Storage, functional integration; design for manufacturing
  - Power electronics
  - Drivetrain for alternative / renewable fuels;
  - Reliability and robustness
  - Advanced ICE and ICE in context of electrification & hybridization
  - PT systems design, optimization, modularization and integration

- **Systems**
  - PT integration, E/E architecture, thermal management, weight reduction
  - Simulation, prototyping, testing, recycling
  - Safety & security of data
  - Novel vehicle concepts; tailored trucks

- **Vehicles**
  - Interfaces and interaction to infrastructure outside vehicles,
    e.g. smart grid integration, IST for energy efficiency

- **Infrastructure**
  - Grid and road infrastructures
  - Data networks
  - Intermodal hubs

- **2-Wheelers**
- **Passenger Cars & LDV**
- **Trucks**
- **Buses**
European Green Vehicles Initiative cPPP

Governance
Contractual public-private partnership

- cPPP proposal based on EGVI Multiannual Roadmap - outlining the vision, research and development strategy, expected impact and governance model of the Green Vehicles Initiative.

- Memorandum of Understanding: commitment of the partners to support the implementation of research and innovation activities.

- Partnership Board - governing body of the EGVI PPP - main mechanism of dialogue between public and private sides.
Creation of new association - European Green Vehicles Initiative Association (EGVIA) - to gather the private stakeholders interested in the initiative.

Formalises the *principles of work* amongst the members, with the view to developing research priorities, disseminating information and promoting the public-private partnership and its collaborative cooperation.

EGVIA currently composed of 64 industry, research and associate members
EU Green Vehicles Initiative Association
Industry Members (automotive)

Automotive OEMs (13)

Automotive suppliers (15)
EU Green Vehicles Initiative Association

Industry Members (smart systems - smart grids)

Smart Systems Industry (4)

- Siemens
- Infineon
- NXP
- ST (life.augmented)

Smart Grid Industry (1)

- Iberdrola
Research Organisations (13)

Universities (11)
EU Green Vehicles Initiative Association
Associate Members

Associate Members (7)
Thank you for your attention!

More information? www.egvi.eu

Contact: info@egvi.eu