

# CATALONIA INSTITUTE FOR ENERGY RESEARCH

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## Electric Vehicle activities

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Institut de Recerca en Energia de Catalunya  
Catalonia Institute for Energy Research

# I REC GENERAL DESCRIPTION

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The **Board of Trustees**, formed by the following bodies:

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- University of Barcelona
- Technical University of Catalonia
- Rovira i Virgili University, Tarragona
- ENDESA
- GAS NATURAL
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# TECHNOLOGY RESEARCH and ACTIVITIES

## Electric Vehicle

The introduction of Electric Vehicles requires a significant technological effort, also linked to the development of new energy management and business models. It's an opportunity in order to place the industry into a new market.

### Related projects/activities:

Name	Industry	Infrastructure	Demand
1. Government of Catalonia advising activities	x	x	x
2. Wind Regulation with Electric Vehicles (REVE)		x	x
3. VERDE	x	x	x
4. Smart City (Málaga)		x	x
5. Retrofit Hybrid	x		
6. Catalonia Cluster for Energy Efficiency (WG-06-EV)		x	x

In addition, IREC also participates in the consortium of two projects presented to Seventh Framework Programme (FP7) related with electromobility: Green eMotion and LTEAS.

## Electric Vehicle

Regarding on the activities carried out in RETRANS project, we want to highlight the following

### Main Issues:

- 1.Related with the EV/PHEV participation on ancillary services, the aggregator figure has to take an important role during period 2015-2020 to ensure a progressive adaptation of national regulations.
- 2.Demand side management is a key issue in achieving a properly integration of EV/PHEV in the network and combining them with renewable resources. Further research on which mechanisms are the most effectives is needed.
- 3.Household charging has to be enhanced, since EV/PHEV batteries have to be filled over the night. Neighborhood regulations on big household buildings has to be adapted to allow individual charging points installation.



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