



## EDF Electric Transportation

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### EUROPE – ELECTRIC MOBILITY TESTING GROUND

The launch of the first of the newest generation of commercialized electric and rechargeable hybrid vehicle models has been heralded by automakers, within a timeframe of the last months of 2010 to 2012. In the interim, in Europe as well as in the rest of the world (particularly in Japan, China, and the U.S.), the next two years will be devoted to field-testing.

A number of European countries are either currently undertaking or in preparations to host **electric or rechargeable hybrid vehicle testing programs**, for the most part within the framework of partnerships between energy companies and automakers and with the assistance of public financing.

These field tests – a majority of which take place within urban environments – are aimed at **evaluating the conditions necessary to the success of electric mobility (technical, economic, driver behavior) from the standpoint of the various actors involved: auto manufacturers, energy companies, recharging infrastructure managers, and end users.**

Methods and equipment vary significantly from one project to another – the numbers and types of vehicles involved (from just a few units to a hundred or so; all-electrics to plug-in rechargeable hybrids); the nature of the recharging infrastructure employed (rapid or normal charging, the density of public infrastructure); or electricity billing procedures, to name just a few.

**Evaluation of testing results is based on various criteria**, such as driver behavior relative to recharging (infrastructure, frequency or ergonomics), vehicle performance and conditions of use, battery performance, electricity consumption, etc.

These tests are also a means of identifying roadblocks – regulatory issues, for example – to the development of electric and rechargeable hybrid vehicles.

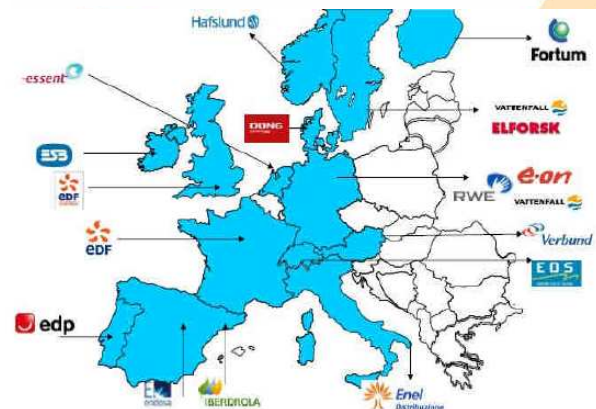
**Europe's biggest energy companies are participants in these programs:** the EDF Group in France and Great Britain, Enel in Italy, ESB in Ireland, Essent in the Netherlands, Fortum in Finland, Iberdrola in Spain, RWE and E.ON in Germany, Vattenfall in Sweden and Germany, et al., **in partnerships with automakers such as Toyota, Volkswagen, Daimler, BMW, and Volvo.**

Accordingly, **in France**, EDF is initiating a plug-in rechargeable hybrid vehicle testing project in a partnership with Toyota in Strasbourg, and the SAVE project one in tandem with Renault in the Greater Paris region structured around a hundred or so all-electric vehicles. The two projects both benefit from subsidies from the ADEME Demonstration Fund.

**In Berlin**, RWE is testing the Smart ED with Daimler, and Vattenfall the Mini E with BMW.

**In London**, commitments have been made concerning three test programs: one by EDF Energy for Daimler's Smart ED, another by Npower (an RWE subsidiary) for the I-MiEV from Mitsubishi, the Daimler Smart, and Tata's Indica; and a third by Scottish and Southern for the Ford Focus and BMW's Mini E.

**In Italy**, Enel will test the Smart ED with Daimler in Rome, Milan, and Pisa.



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