SPANISH POLICY WITH REGARD TO ELECTRIC VEHICLES

DIRECT GRANTING OF SUBSIDIES FOR ELECTRIC VEHICLES PURCHASE IN 2011

WORKSHOP ON ELECTRIC VEHICLES
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INTRODUCTION

**Vehicle Industry in Spain** is one of the most outstanding economy activities with regard to the creation of wealth and employment.

Some data referred to 2010:

- Production: 2,39 million units
- Export: 2,08 million units
- Employment: 58,043 jobs

The automotive sector is the main exporter within the national economy: 87% of the manufactured vehicles.
Regarding the auxiliary industry:

- Turnover: 27.000 million €
- Employment: 180.000 jobs

This sector exports more than 60% of its production.
Transport sector in Spain in 2009:

- was responsible for the 39% of energy consumption.
- depends on oil products in a 98%.

Road transport:
- represents 25,4 % of CO₂ emissions.
- represents 80% of the energy consumption in the transport sector.
INTRODUCTION

ADVANTAGES OF ELECTRIC VEHICLES

• The development of electric vehicles will enhance energetic efficiency improvement, will reduce oil dependency and will favour the use of home energy sources (renewable ones).

• In the Industry sector, it will provide vehicle manufacturers, components and electronics sector with new opportunities.

• It will contribute to the development of new types of business for the management of charges and the supply and use of batteries.

• From the environmental point of view, it will reduce greenhouse gas emissions and home pollution (atmospheric and noise).
TARGETS ON INCENTIVES TO ELECTRIC VEHICLES

• One of the guidelines of the Global Vehicle Plan was the development of electric vehicles totally or partially powered by electricity from the power supply. This Plan included the demonstration of technical and energetic feasibility of electric mobility in urban settings.

• In 2009, promoted by the Ministry of Industry, Tourism and Commerce, vehicle enterprises and bodies signed a memorandum in order to foster electric vehicles.

• This memorandum has made possible to outline the Global Plan for the Boost of Electric Vehicles in Spain, structured in two stages, 2010-2012 and 2012-2014.

• In the European Framework, Spanish Presidency promoted a discussion on this type of vehicles, within the “Strategy of clean and energetically efficient vehicles” of the Commission, published in April 2010.
The **Global Strategy for the Boost to Electric Vehicles in Spain** includes four main points:

- Promotion of the demand.
- Industrialization and R+D+I.
- Promotion of the infrastructure of recharges and management of the demand.
- Indirect actions regarding standardization and strategic marketing actions.

This Strategy foresees a total number of **250,000 electric vehicles in Spain in 2014**.

**Direct granting of subsidies for the purchasing of electric vehicles** is aimed at:

1. favouring and promoting the development of electric mobility in order to increase transport sustainability improve energy efficiency and reduce pollution.

2. Achieving 2012 goal: 70,000 electric vehicles registered in Spain.

Total amount for incentives: 72 million € in the financial year of 2011.
Electric vehicle: vehicle totally or partially powered by electricity from the power supply.

Incentives for the purchase or leasing of new electric vehicles first registered in Spain, will apply to the following categories:

- Passenger cars M1
- Light commercial vehicles N1
- Buses or coaches M2
- Buses or coaches M3
- Light commercial vehicles N2
- Motorcycles (L3e and L5e)
- Light cuadricycles (L6e)
- Heavy cuadricycles (L7e)
The amount of the individual subsidy will be **25% of the retail price before taxes** of the complete vehicle (propelling batteries included).

According to the type of vehicle and its autonomy (by exclusively electric way) there are some restrictions to these aids:

- **GROUP 1**: vehicles of categories M₁, N₁, L6e, L7e, L5e and L3e.
  - 2000 euro for those vehicles with exclusively electric autonomy not higher than 40 km and not lower than 15 km.
  - 4000 euro for those vehicles with exclusively electric autonomy higher than 40 km and lower or the same as 90 km.
  - 6000 euro for those vehicles with exclusively electric autonomy higher than 90 km.

- **GROUP 2**: microbuses M₂ and commercial vehicles N₂.
  - up to 15.000 euro, provided that their autonomy is higher than 60 km.

- **GROUP 3**: buses and coaches M₃.
  - up to 30.000 euro, provided that their autonomy is higher than 60 km.
ELECTRIC VEHICLES TO BE MANUFACTURED IN SPAIN

- Renault Twizzy
- Mercedes Vito
- Citroen Berlingo/Partner
- Ford C-max, COMARTH, SEAT Twin-Drive, etc
6.5 M electric vehicles could be included in the electric system without further investment in the electric generation and transport system.
Special Period Rate Definition

Demand profile for 1 million electric vehicles in 2014, simultaneous 8 hour recharging

Charging curve flattening:
- Greater efficiency
- Major integration of renewables
- Decreasing instabilities
SPECIAL PERIOD CREATION

“Special period”: New alternative timetable for low voltage supplies not higher than 15Kw power
THANK YOU FOR YOUR ATTENTION