

EU Energy Initiative

Transportation and Climate Protection

**An initiative to overcome financial crisis of the
car manufacturing industry
and secure clean energy**

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Car manufacturers have relied on obsolescent techniques. The financial crisis force leading companies to redesign their production.

The IEA calls for a major “decarbonisation” of the world's energy system. The Agency warns from an "abrupt and irreversible" climate change. Implication of the financial crisis on the energy sector will be a shortage of supply capacity and low investment in clean energy . The Agency calls for economic stimulus packages in the clean energy economy.

Any change in car production should therefore:

Avoid

Petrol
Diesel
Biofuel
Natural gas

Use

Hydrogen
from hydrolysis of water
Electricity
from wind turbines and solar energy

http://www.iea.org/Textbase/speech/2009/Tanaka/korea_feb23_final.pdf

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The European Commission should support the European car industry by giving a robust procedure to overcome the crisis. Isolated activities of each countries will produce counter-productive effects and waste resources.

An immediate action of the EU is needed to counter the actual emergency:

Introduction of the hydrogen/electricity transportation economy

1.- Invite the European car manufacturers and their major suppliers to act under a community of interests:

Explain the EU economic stimulus package for the car manufacturer:

An initial production modification support of 1.000.000 EUR for every 10.000 cars/year production capacity within the EU borders.

Explain the EU economic stimulus package for the car buyer:

- Sale taxes and car taxes remission for 10 years
- Release of all road fees within the borders of the EU
- 2.500 EUR as deal stimulus to be payed by the country where the car was built.

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2 - Specifications of cars supported by the economic stimulus package:

The common internal combustion engine, usually fuelled with gasoline (petrol) or diesel liquids, can be converted to run on gaseous hydrogen.

Allowed maximum specifications or better:

Engine power	68 PS (50 KW) such as Peugeot 107-2008 or similar
CO2 emission using petrol	108 CO2g/km
CO2 emission using hydrogen	near zero/km
Displacement	1290 ccm (1,31 litre)
Double fuel injection system	
Fuel injection system	Electronic Fuel Injection (EFI) for petrol
Fuel injection system	Electronic Fuel Injection (EFI) for hydrogen

3 - Standard engine

A standard engine should be purchased from one producer with fixed price for all buyers. This will keep production cost low.

To keep the free market all other engines will be supported by the stimulus package, provided they meet the above-mentioned specifications.

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4 -Bodywork and individual outfit of cars

Cars must be equipped with a petrol and an hydrogen tank.

Individual design, bodywork, interior outfit of the specific manufacturers may remain unaltered, provided the engine meets the mentioned specifications.

Thus, production of Hydrogen/petrol cars may start immediately, as there are no research or any developments necessary.

5- Hydrogen refilling stations

Hydrogen production and the infrastructure of hydrogen refilling stations will be strongly supported by the European Commission and the different governments, Car manufacturers and car buyers are assured of the evolving infrastructure and the economic profit of hydrogen cars.

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Hydrogen infrastructure

Hydrogen Production

Integration of existent solar power plants and Wind turbines

Almeria and Desertec: Energy from already existent solar power plants such as Almeria in Spain and the African site of Desertec, together with wind turbines like off-shore installation may be used for the initial production of hydrogen. The actual energy capacity produced by these plants are, however by far to low for the hydrogen project. Increasing the sites in Almeria and Africa are immediately needed. The Middle East must also be involved as hydrogen demand increases.

Refilling Stations

Supporting the infrastructure of refilling stations

The installation of refilling stations will be supported by the EU with

50.000 EUR for each pump on stations in cities

60.000 EUR for each pump on highway stations

30.000 Euro for each hydrogen transport truck

This will become a financial incentive to invest in construction, hydrogen infrastructure and car producing industry.

END