FUEL CELL ELECTRIC VEHICLE

FOUNDATION FOR THE DEVELOPMENT OF NEW HYDROGEN TECHNOLOGIES IN ARAGON

DESCRIPTION

The Foundation has made the conversion of a battery electric vehicle into a fuel cell electric vehicle. This conversion provides increased range (up to 50% more) and reduced charging time (8 hours to 3 - 4 minutes) in relation to the initial battery electric vehicle.

The electric motor is powered from hydrogen fuel cell, this is supply by two hydrogen tanks that it storage 1,4 kg of hydrogen gas at 350 bar. Moreover, the heat generated by the fuel cell is used for the heating system of the electric vehicle.

This vehicle has successfully passed the technical inspection of vehicle and the homologation process , therefore, can be driven by public roads.

TECHNICAL FEATURES

- Fuel cell power: 12 kW.
- Hydrogen storage: 1,4 kg at 350 bar
- Battery electric vehicule range: 60 km
- Fuel cell electric vehicule range: 120 km

CUANTIFICACIÓN	
Energy savings:	Diesel/gasolina: 0,68 kWh/km
	Battery electric vehicle: 0,16 kWh/km
	Fuel cell electric vehicle: 0,4 kWh/km
Emissions:	Diesel/gasolina: 0,17 kg_{CO_2}/km
	Battery electric vehicle: 0,0 kg_{CO_2}/km
	Fuel cell electric vehicle: 0,0 kg_{CO_2}/km

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http://www.zerohytechpark.eu/

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