

## **Adif tests in Málaga the recharge of electric cars with excess energy produced by the railway network**

LOCATION: Málaga

DURATION: 1:45

**SUMMARY:** Adif is testing in Málaga a new system of fast recharge for electric cars with the excess energy that comes from the railway network. It has been placed at the María Zambrano Train Station and it is able to recharge the 80% of a car's battery in barely 20 minutes. This system has been called Ferrolinera 3.0, and its last advance has been the incorporation of solar panels and small wind turbine generators that also work as an energy source.

### **VTR:**

It could be any recharging point, but the electricity that will move this car comes from these trains.

**EUGENIO PEREGRÍN**  
Adif technician

*"What we try to do is using the energy produced by the train when it is braking and that is returned to the network, somehow it is lost in the general electric network. We give it an use recharging electrical vehicles."*

**JUAN DE LA TORRE**  
Engineer Wind Inertia

*"With this system the catenary detects that energy, it is recovered and transformed so it can be used by a recharge point."*

It is the system that Adif is testing in Málaga, which has also added to its structure solar panels and wind turbine generators. They have called it 'Ferrolinera 3.0'.

**MIGUEL RÍOS**  
Manager Commercial  
Development Adif

*"It would be an impulse for the electric car as it would be available at all the stations managed by Adif, we are talking about around 1.200 stations."*

Adif estimates that between a 20 and a 40% of the energy produced by trains when they use their brakes is wasted. That's why in the María Zambrano station in Málaga, it is sent to this transformer that takes it to the electric supplier located in the underground parking.

### **USER**

*"I only pay for the parking, at the check point they give me a card, I come here and recharge the car while I am shopping or doing other things."*

**MIGUEL RÍOS**  
Manager Commercial  
Development Adif

*"The value of fast recharge would allow an electric car charging up to an 80% of the capacity of the battery in approximately 15 or 20 minutes."*

France and Japan have already shown interest in this patent developed in Málaga, at the Rail technology Centre, with the participation of eight Andalusian enterprises and the Universities of Málaga and Seville.

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