

- 1. Launched in 2008 by Endesa.**
- 2. It is a large-scale test project that develops the implementation, in a real environment, of all the Smart Grid technologies.**



- 3. The project has been carried out in “Misericordia Beach”.**
 - 4. Participation of 300 industrial users, 900 sector service users and 11.000 residential customers, with 63 MW of contract demand and 70 GWh/year of consumption.**
-

An Integral Project



- 1. Testing 17.000 smart meters**
- 2. Grid automation for real time monitoring and control: 72 communicated MV/LV transformer substations, 5 MV lines (20 kV) with 40 km of circuits**
- 3. Integration of renewable generation**
- 4. Battery storage at the medium and low voltage level**
- 5. LED lighting with 200 elements**
- 6. 4 electric vehicles.**
- 7. Development of technology for charging electric vehicles and V2G**
- 8. Active demand side management**
- 9. Development of a management system for the efficient use of energy at domestic and SMEs level**

An Integral Project



Resources needed 31 M€ from European Fund through CDTI (Center for the Industrial and Technology development, under the Economy and Innovation Ministry)

Evidence of success

- Users of the Smart grid: 300 industrial customers, 900 service customers, 11.000 households.
- Increasing of renewable energy use: 15% average per month
- CO2 reduction: more than 15% average per month
- Energy efficiency improvement: more than 25% average per month



ZeM2All

Zero Emissions Mobility to All





Project developed in the context of the JSIP (Japan-Spain Innovation Program) for technological cooperation.



Participating companies:



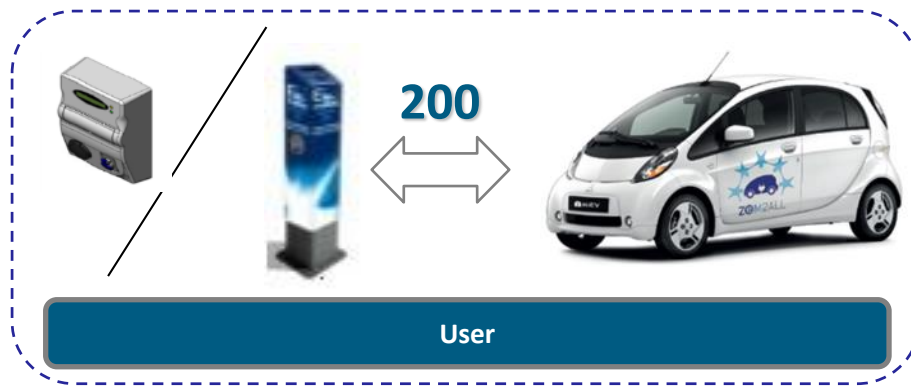
Telefonica



HITACHI



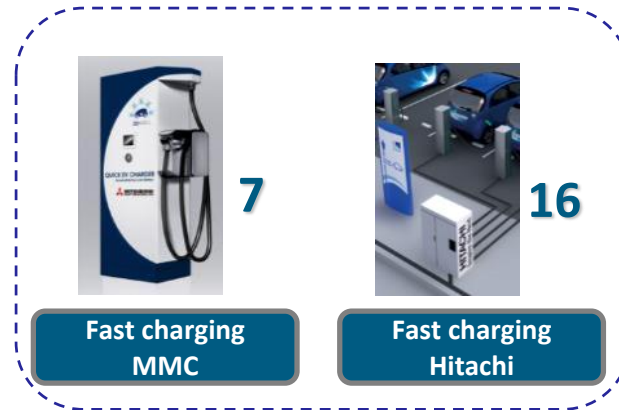
- Vehicles



ITC Platform



- Charging infrastructure -



PROYECTO DE:



CON EL APOYO DE:



Ayuntamiento de Málaga



- Daily progress -

<https://vms.zem2all.com/des/html/#/menu/top.html>



Informe de actividad del proyecto ZEM 2 ALL y resultados, gracias a sus participantes.

ZEM2ALL



Distancia Total Recorrida

Total: **4.646.715** km

Este mes: **0** km
(Mes pasado: 128.657 km)

Hoy: **0** km
(Ayer: 2.157 km)



Registro de Carga

Total: **109.998** veces

Este mes: **0** veces
(Mes pasado: 3.158 veces)

Hoy: **0** veces
(Ayer: 74 veces)



Vehículos Participantes

Total: **211**

Circulando: **0**

En recarga: **0**



Velocidad Media de los
Última 30 Minutos

0 km/h



Cantidad Real de
Reducción de CO2

Este mes: **0** kg /
0 árboles

Total: **330.567** kg / **1.101** árboles

Idioma

[Español](#) [English](#)

[Visión de Conjunto](#)

[Mapa de consumo eléctrico
\(por datos de recarga\)](#)

[Mapa de consumo eléctrico
\(por datos de vehículo\)](#)

[Velocidad Media de VE](#)

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Ayuntamiento
de Málaga



- Municipal actions -

- Provision of sites for operation and demonstration centres
- Provisions of locations for 7 fast charging stations
- Cooperation with Fuengirola and Marbella for the location and installation of 2 QCS
- Use of 20 EV (finally 45)
- 75% bonus for EV in Vehicles Tax during 4 years**
- Access to EV restricted in historical centre.
- Free surface parking reservation **(15 exclusive parking spaces)**
- Free parking in blue zone (SARE)**
- Bonus in municipal car parks **(45 minutes free)**
- Vertical and horizontal signs for charging points and exclusive parking.



ZeM2All

Zero Emissions Mobility to All

