

# ENDESA

**Address:**

Ribera del Loira, 60  
E-28042 Madrid (Spain)  
Tel.: +34 912 131 752  
Webpage: [www.endesa.es](http://www.endesa.es)

**Contact:**

Jorge Sánchez Cifuentes  
Deputy Director T&I Distribution &  
Commercial  
e-mail: [jorge.sanchezc@endesa.es](mailto:jorge.sanchezc@endesa.es)

## Organisation profile

ENDESA is the leading utility in the Spanish electricity system and the number one private electricity company in Latin America. It is a significant player in the energy sector of the European Mediterranean region, has a growing presence in the Spanish natural gas market and is advancing rapidly in the area of renewable energy. ENDESA has over 25 million customers.

Endesa has several projects related with Smart Grids, like Denise, a Research consortium to develop the new Spanish intelligent Grid. This project develops new sensors, new algorithms and new systems and studies the behaviour of the massive integration of DG in the networks and new maintenance techniques based on reliability. Endesa is founder of the IUA (Innovation Utilities Alliance), whose aim is to share experiences, knowledge and initiatives between utilities, and develop consortium projects. IUA has 5 different Task Force, and one of them is Electric Vehicles.

## Main Green Cars activities: Products and Projects

Member and co-founder of the de-facto EV standardization group, which is formed by the big utilities in Europe (Endesa, Enel, EDF, RWE, E-on, etc.) and the main OEMs. This group has done recommendations dealing with the plug and the communications between the car and the charging station, which have been moved to the standardisation committees as IEC and ISO. Endesa has already installed several recharging stations, including its headquarters parking area.

**Smart City Project:** Demonstration national project to create the first smart city in the south of Europe applying all the knowledge and outcomes resulting from Denise. It includes EVs, V2G capabilities, design and installation of bidirectional Smart Charging Stations, and integration in the Smart City Grid.

**Grid For Vehicle:** FP7 project with the objective to develop an analytical method for the planning of necessary technological developments in the electricity grid infrastructure and the definition of related ICT and policy requirements in order to support, cope with and clearly understand the effects of a mass introduction of EV and PHEV until 2020.

**MOVELE:** EVs demonstration project launched by the national Government. One of its main goals is to promote actions among the local administrations involved to generate a network of charge spots in public roads and car parks as a stepping stone to the deployment of 2,000 electric vehicles over a maximum period of two years. ENDESA works hand by hand with the Councils defining the requirements and the specifications of these recharging points.

**EPRE:** Internal project that defines the characteristics of a Endesa Recharging Point. It includes slow, smart, and fast charge. One activity is focused in convert, design, and install a solution that allows converting Public Telephone Boxes on the street to charging stations.

**ELVIRE:** FP7 project. The main goal is to develop tools, solutions and services to support energy efficiency within e-mobility.

**VERDE:** National Cenit Project with SEAT, Spanish car manufacturer, and the two big utilities from Spain, Endesa and Iberdrola. The main goals are to deal with an efficient use of energy transport, design control and safety strategies to recharge EVs, and do research about batteries intelligent infrastructures, electric motors, and connect it with the Smart Electrical Grids.