

Press Release

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New Energy and Industrial Technology
Development Organization

<http://www.nedo.go.jp/english/index.html>

Smart Community Demonstration Project in Málaga City —The project has started and held the opening ceremony—

NEDO's demonstration project on Smart Community System is commencing in Málaga city (Andalusia) located in the southern part of Spain. Along with that, the opening ceremony is organized jointly with the city and relevant parties on April 25th in the afternoon (same day evening Japan time) in Málaga City.

This project is based on the Japan-Spain Innovation Program (JSIP) established by NEDO and Centre for Industrial Technological Development (CDTI) of the Spanish government. It is actualized by affiliating with the Smart City Málaga Project propelled by Málaga City. The Japanese side has installed quick charger CHAdeMO, which aims to become international standards, within Málaga city and neighboring. The project utilizes these quick chargers and 200 units of EVs (Japanese made) to evaluate highly advanced Smart Community technology for the large scale introduction and dissemination of EVs.

This project is carried out by collaborated entities from Japan and Spain. From Japanese side have Mitsubishi Heavy Industries, Ltd. Mitsubishi Corporation and Hitachi Ltd., and from Spanish side have Spanish major power company Endesa※1, major communication company of Telefonica※2, and Ayesa※3 as consulting company.

※1) Endesa S.A.

※2) Telefónica Investigación y Desarrollo, S.A. Unipersonal

※3) Ayesa Ingeniería y Arquitectura, S. A.



Fig1: EV and quick charger

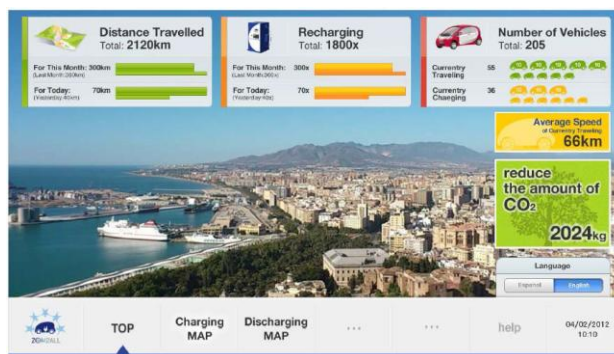


Fig2: EV management center

1. Project Overview

Coordinating Smart Community System Demonstration Project in Málaga city makes full use of ICT (Information Communication Technology) to encourage behavioral innovation of EV users by demonstrating reduction of power system load caused by the large scale of EV charging events. The ultimate goal is to develop project that contribute to make sustainable Smart Community.

Specifically, the project covers installing EV infrastructures such as EV management system and quick chargers, as well as constructing platform for power management and coalition of networked information. The recruitment of project participant is to form with diverse types of individuals and entities.

This project initially started with 160 units of i-MiEV by Mitsubishi Motors Co. The number of EV units will be increased to 200 units by adding 40 units of Nissan Leaf in future. In order to obtain real-life data, participants are selected from a wide range of individuals and entities for EV users.

Quick chargers (maximum output 50kw) are installed nine location within Málaga city and neighboring (five of them are produced by Mitsubishi Heavy industries, and four of them are produced by Hitachi) with 23 units. The system provides the most appropriate navigation service to EV users based on the availability information of each charging station and probe information from each vehicle. This is to improve users-friendliness while collecting data such as traveling and charging information, and these will be analyzed and evaluated.

In addition, by optimizing navigation for EV users will reduce high-intensity of power system caused by quick chargers. This is to down hold future investment cost for power system and to promote dissemination of EV, EV infrastructures and various services related to EV.

Total demonstration cost (Japanese side) in approximately 6 billion yen (roughly 5 billion yen borne by NEDO). This Demonstration Project is planned to be conducted until year 2015.

2. Opening Ceremony

Opening ceremony for Smart Community Demonstration Project will be held on 25th April in the afternoon (same day evening Japan time) with honored guest Príncipe de Asturias at Málaga City Hall.

From Japan side, NEDO Chairman Mr. Furukawa, Directors from Mitsubishi Heavy Industries, Mitsubishi Co. and Hitachi, will be attending the ceremony. Ambassador of Japan to Spain Mr. Sato will be attending as a guest.

3. Contact Persons;

Mr. Washihara, Smart Community Department, NEDO

Tel: +81-44-520-5274

Mr. Kiuchi, General Affairs and Policy Planning Department, NEDO

Tel: +81-44-520-5151 E-mail: nedo_press@ml.nedo.go.jp