Smart Community Demonstration Project in France — Inauguration Ceremony for EV Car Sharing System Held in Lyon —

NEDO launched a demonstration for an EV car sharing system (SUNMOOV) using renewable energy in Lyon, the second largest city in France. 30 EVs and a charging infrastructure using Photovoltaic (PV) power generation will be introduced that enable effective EV charging using PV power without affecting power grids. Leading smart community technologies that contribute to the reduction of CO2 emissions will also be demonstrated.

The demonstration project is aligned with the Lyon Confluence revitalization plan led by Grand Lyon*1 and NEDO’s smart community project is being conducted as a core project of Lyon Smart Community.

An inauguration ceremony was held on October 14, 2013 in Lyon. NEDO Chairman Furukawa and relevant stakeholders from the entrusted entities, Toshiba and Toshiba Solutions, attended the ceremony from the Japanese side.

*1 Grand Lyon: an intercommunal structure including the city of Lyon and some of its suburbs
1. Overview

NEDO is conducting a smart community demonstration project in Lyon, located in southeast France. The project is recognized as a core project in the city revitalization plan conducted by Grand Lyon. This is the first smart community demonstration project undertaken by NEDO that aims toward developing an entire city infrastructure as a smart city.

The demonstration project consists of the following four tasks (see Figure 3):

▼ Task 1: Construct positive energy buildings (PEB) that generate more energy than can be consumed in the entire building by installing PV panels, batteries and energy-saving equipment.

▼ Task 2: Introduce an EV management system and EV car sharing system utilizing PV power generation.

▼ Task 3: Promote energy-saving behavior among residents by introducing a system for monitoring electricity usage in existing homes.

▼ Task 4: Develop a community management system (CMS) that provides an energy consumption index, which can be utilized by the entire community, by collecting energy data from Tasks 1, 2 and 3.

Figure 3: Overview of demonstration project

In Task 2 (SUNMOOV), an EV car sharing system demonstration is being carried out to support the development of the Lyon Confluence district as a smart community by integrating PV panels, EV chargers (quick and normal chargers), a charging management system and EV car sharing system, efficiently using PV power to charge EVs as well as contributing to CO₂ emission reductions. The demonstration encourages the participation of a wide range of users from individual to business levels for the launch of a citizen participation EV car sharing system.

A total of 30 EVs will be used, consisting of 15 i-MiEVs manufactured by Mitsubishi Motors and 15 EVs by PSA Peugeot Citroën.

In addition to 30 normal chargers, three CHAdeMO quick chargers with a maximum output of 50kw will be installed in Lyon. CHAdeMO is a Japanese quick charging system that has been proposed to the International Electrotechnical Commission (IEC) as an international
standard and is also the only commercial quick charging system. Thus, the installation of CHAdeMO quick chargers is important in terms of EV dissemination in Europe.

Project costs for Task 1 through Task 4 are approximately 5 billion yen and the project is scheduled to be carried out until FY2015.

2. Inauguration Ceremony

The inauguration ceremony for the launch of the EV car sharing system under the smart community demonstration project was held on October 14, 2013 at 10:30 a.m. (5:30 p.m. Japan time) in the Lyon Confluence district. The ceremony was attended by Mr. Gérard Collomb, Senator-Mayor of Lyon and President of Grand Lyon, and executives of participating companies from France and Japan.

3. Contact Persons

Mr. Yoshida, Mr. Watanabe, Smart Community Department, NEDO
Tel: +81-44-520-5274