

Nexans participates in the SMAC pilot project to experiment matching the recharging of electric vehicles with the production of renewable energy

Paris, June 11, 2020 - in the Nexans site in Donchery, the Ardenne Métropole urban community and the Jean-Baptiste Clément high school in Sedan will sign an agreement with the SMAC (Smart Charging) pilot project on June 11, supported by a consortium made up of Enedis, Nexans, Park'n Plug and Y Schools. The pilot project is part of the challenges of the energy transition and aims to reduce the territorial carbon footprint by matching the charging of electric vehicles with the periods of high local renewable energy production.

Technical service innovation of the energy transition

This pilot project is the result of a technical service innovation of the energy transition developed in the territory of Champagne-Ardenne. Its ambition is to optimize the charging of electric vehicles during periods of high production of renewable energy thanks to an energy management solution for charging stations.

More specifically on the territory of Ardenne Métropole, this project aims:

- to set up synergies between local renewable energy production and the 149 electric vehicle charging stations;
- to forge a "community" of eco-participative users around electric mobility;
- to inform and raise awareness on a major lever of the energy transition;
- demonstrate technological feasibility and measure societal support for the use of renewable energies for electric mobility.

Digital at the heart of Nexans' mission

Nexans' role in this pilot consists of implementing digital solutions in order to control the energy distributed to all the terminals according to the production of wind energy. To do this, Nexans uses its CPO (terminal fleet management) software and is already developing other digital tools making it possible to configure energy management of charging according to different rules:

- static (a management rule defined by terminal or cluster, fixed, configured in the factory);
- dynamic with local constraint (rule modulated in real time as a function of the production / consumption balance at the scale of a terminal or cluster);
- dynamic with global constraint (rule modulated in real time as a function of the production / consumption balance on a mesh scale).

Another part of the project is to test the V2G technology (vehicle to grid) by taking the energy from a vehicle battery and feed it back to the energy network, thanks to a specific terminal, authorizing both this function and charging (flux bi-directional current).

A public-private partnership that is taking shape

The urban community of Ardenne Métropole and the Lycée Jean-Baptiste Clément, two key players in electric mobility in the Champagne Ardenne region, will therefore engage in this unique pilot in France alongside Enedis and Nexans (two major players in the energy transition), Park'n Plug and the Y SCHOOLS group in Troyes. All of these participants will thus collaborate to bring about a strong territorial energy transition.

More broadly, this collaborative project, supported by the community program FEDER and the Grand-Est region, represents an exemplary opportunity to unite all local players around a societal subject of the future: individuals, businesses and local communities. SMAC contributes to enhancing the strong actions already initiated by the collective community via its network of charging stations and its car-sharing service (winner of the AVERE 2018 prize) and the Lycée Jean-Baptiste Clément, the 1st high school in France to offer specific professional training of the electric vehicle. This project also promotes the uniqueness of Champagne-Ardenne (1st wind region in France) within the Grand Est region.

About Nexans

Nexans is a key driver for the world's transition to a more connected and sustainable energy future. For over 120 years, the Group has brought energy to life by providing customers with advanced cable technologies for power and data transmission. Today, Nexans goes beyond cables to offer customers a complete service that leverages digital technology to maximize the performance and efficiency of their critical assets. The Group designs solutions and services along the entire value chain in four main business areas: Building & Territories (including utilities and mobility), High Voltage & Projects (covering offshore wind farms, subsea interconnections, land high voltage), Telecom & Data (covering data transmission, telecom networks, hyperscale data centers, LAN), and Industry & Solutions (including renewables, transportation, oil and gas, automation, and others).

Corporate Social Responsibility is a guiding principle of Nexans' business activities and internal practices. In 2013 Nexans was the first cable provider to create a Foundation supporting sustainable initiatives bringing access to energy to disadvantaged communities worldwide. The Group's commitment to developing ethical, sustainable and high-quality cables also drives its active involvement within leading industry associations, including Europacable, the NEMA, ICF and CIGRE.

Nexans employs nearly 26,000 people with an industrial footprint in 34 countries and commercial activities worldwide. In 2019, the Group generated 6.7 billion euros in sales.

Nexans is listed on Euronext Paris, compartment A.

For more information please visit www.nexans.com

Enedis is a public utility, manager of the electricity distribution network which employs 38,000 people. Serving 35 million customers, it develops, operates and modernizes 1.4 million km of low and medium voltage electrical network (220 and 20,000 Volts) and manages the associated data. Enedis carries out customer connections, 24/7 troubleshooting, meter readings and all technical interventions. It is independent of the energy suppliers who are responsible for the sale and management of the electricity supply contract.

PARK'N'PLUG is a start-up specialized in collective charging equipment for electric vehicles in the residential and tertiary sectors since 2011. As a charging operator, Park'n Plug develops and distributes innovative products allowing the intelligent management of charging infrastructures installed in the private parking lots of collective residences and companies.

Y SCHOOLS de Troyes is a training center built around the Grande École Program, ranging from a 2nd Chance School to a Doctoral School (in collaboration with the University of Reims Champagne-Ardenne), and from management to design, in through tourism, international and the paramedical / social sector.

Ardenne Métropole is a public establishment for intermunicipal cooperation with its own French tax system, having the legal form of an agglomeration community, located in the department of Ardennes, in the Grand Est region. Created on January 1, 2014 under the name of the Charleville-Mézières-Sedan agglomeration community, it brings together 58 municipalities, including the departmental prefecture city, Charleville-Mézières, and a sub-prefecture city, Sedan.

Jean-Baptiste Clément lycée draws on recognized expertise for almost 70 years, successively a technical college, a vocational college, then a vocational college, and finally a lycée in the automotive and automotive trades industry. The Lycée Jean Baptiste Clément also asserts itself as the first continuing education center for adults in the Sedan region and has a permanent continuing education branch of GRETA in the Ardennes. Among other things, it provides training for automotive employees. With its 650 pupils and students under school status and its 130 apprentices, the Lycée Jean Baptiste Clément, with its two sites in Sedan and Vivier-au-Court, offers training in the fields of cars, electrical engineering, boilermaking, IT, industrial maintenance and fiber optics. Since 2014, it has taken particular account of the evolution of electric mobility by creating the first training workshop in the Grand Est region. With numerous partnerships, it maintains important links with the regional and even European economic fabric.

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