



Seven new partners are joining the EVVE project, alongside EDF and Dreev, to speed up the roll-out of bidirectional charging for electric vehicles in Europe.

Launched in 2021 under the leadership of the EDF Group, the EVVE (*Environmental Valorization of Virtual Energy storage*) project aims to deploy 800 *vehicle-to-grid* (V2G) charging stations in Europe. The aim is to demonstrate that by storing low-carbon electricity, electric vehicles can help to reduce CO₂ emissions. The project will pave the way for the arrival on the market of new V2G functionalities based on the "Combo CCS"¹ European charging standard.

Supported by the European Union's Innovation Fund², the EVVE project and its intelligent charging stations use the bidirectional *vehicle-to-grid* (V2G) technology developed by Dreev³. This technology programs vehicle charging when the grid has abundant decarbonized electricity and the price per kWh is competitive. The energy stored in the batteries of electric vehicles can then help to balance electricity supply and demand on the grid, particularly at times of peak consumption.

The arrival of 7 new partners to speed up the EVVE project

Altra (IVECO group), BNP Paribas Mobility, represented by Arval and BNP Paribas Leasing Solutions⁴, Enedis, IZIVIA, Nuvve, Stellantis and Volkswagen Group France have joined the consortium formed around EDF and Dreev to speed up the EVVE project. Each partner has committed to installing a volume of bidirectional charging points for different uses in several European countries, including France, to reach a total deployment of 800 charging points. This is an opportunity for everyone involved to test this new technology and gauge its benefits for customers (such as fleets) and for the electricity system.

To date, 250 V2G chargers have already been deployed as part of this project, mainly in France and Denmark.

Olivier Dubois, Senior Vice President, Electric Mobility, EDF Group: *"Managing the charging of electric vehicles is a strategic challenge for the electricity system. It is essential to enable electricity transmission and distribution networks to manage the massive arrival of electric vehicles efficiently and economically. The development of V2G will also provide a large-scale, competitive flexibility solution, making it possible to better manage the intermittency of renewable energies and thus accelerate their development. We are delighted to have the support of the European Union for a project of this kind, which is essential if we are to achieve our energy transition objectives."*

Eric Mevellec, Managing Director of Dreev: *"The EVVE project provides a unique framework for testing the charging solutions of the future, such as V2G. It is a good illustration of how the European industry is organizing itself around new charging standards. In practice, 800 bidirectional charging points will be deployed to form a virtual power plant with a capacity of over 8 MW, which will make it possible to avoid nearly 25,000 tons of CO₂."*

Alain van Groenendael, Chairman and CEO of Arval: *"As a major player in operational leasing and a specialist in mobility solutions, supporting our customers in their energy transition is at the heart of our strategy. We are very proud to join the EVVE project, which is fully in line with our Arval Energy initiative. Arval is helping to accelerate and*

¹ Combo CCS is a standard European plug for recharging electric vehicles.

² Financed by the European Union. The views and opinions expressed are those of the authors and do not necessarily reflect those of the European Union or the European Executive Agency for Climate, Infrastructure and the Environment (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

³ A joint venture between EDF and Nuvve

⁴ More specifically, Arval, through BNP Paribas Leasing Solutions, will supply electric vehicles compatible with V2G technology and finance charging points for companies outside the consortium wishing to participate.



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promote innovation in the technologies of tomorrow, such as V2G, which will complement our electric vehicle offering."

Neil Pein, CEO of BNP Paribas Leasing Solutions: *"We are delighted to actively contribute to the deployment of this new technology by offering innovative financing solutions to our customers. Our association with Arval also reinforces the BNP Paribas Group's commitment, through the BNP Paribas Mobility brand, to offer an integrated and co-ordinated approach to helping its customers develop in the sustainable mobility market."*

Mathilde Lheureux, Stellantis Global Head of Charging Business Unit: *"Stellantis is firmly committed to achieving zero carbon by 2038, with an accelerated plan to achieve a 50% reduction in CO2 emissions by 2030. We are seizing the opportunity to participate in smart energy programmes such as the EVVE project for two-way charging as a fundamental step towards achieving our Dare forward plan. Developing a holistic ecosystem with our partners and providing a turnkey energy management experience for our customers is key to achieving 100% of BEV sales in Europe and 50% in the US by 2030."*

Luc Chausson, Director of Strategic Projects, Volkswagen Group France: *"Road transport using combustion engines emits CO2. But thanks to the electric vehicle, the car is becoming a major player in reducing these emissions. What's more, with V1G and V2G, it is bringing new technological solutions to help the electricity network meet customers' needs. The Volkswagen Group is very committed to decarbonization, with the Regenerate+ plan, which aims to eliminate our carbon footprint completely by 2050. In France, thanks to the Electrify France program, we are developing a fast-charging network and a network of battery repair centers throughout the country. By taking part in the EVVE project, Volkswagen Group France wants to be a proactive player in bidirectional charging so that we can offer our fleet and private customers these innovative solutions."*

Pierre de Firmas, Director of Electric Mobility at Enedis: *"Enedis is now involved in the EVVE project alongside several partners, including Dreev, in order to test and develop V2G technology at around thirty of our sites. This project is taking place against a backdrop of accelerating growth in electric mobility, which will make it even more important to manage recharging and V2G in order to balance the electricity system in the years ahead. Enedis is at the heart of the challenge of the electrification of transport, as the charging infrastructures for electric vehicles are all connected directly or indirectly to the distribution network. We are also very committed to the electrification of our company fleet, with 6,300 electric vehicles by mid-2024, i.e. more than one in three vehicles in France's second-largest electric fleet"*

Marco Liccardo, Chief Technology & Digital Officer, Iveco Group: *"The development of electric mobility in Europe is an ambitious objective that requires the active involvement of all stakeholders. This is why we are proud to take a concrete step towards the electrification of the transport sector by joining the EVVE project. We will be working side by side with our partners to build an ecosystem in which vehicles and charging infrastructure are interconnected. By supporting the maturity of this technology, we aim to have a positive impact across the value chain and deliver real benefits to our customers."*

Christelle Vives, Managing Director of IZIVIA, the EDF Group's electric mobility subsidiary: *"On the strength of our experience in installing and operating V2G-compatible charging points in France, IZIVIA is very committed to this project, which is at the heart of our ambition to provide innovative recharging solutions for all customers. With over 26,000 chargepoints operated and supervised in France, and more than 25 years of experience, we have put in place a continuous improvement loop in our processes to guarantee an optimal recharging experience for all our customers."*



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Gregory Poilasne, co-founder, chairman and CEO of Nuvve: *"As the world leader in V2G technology and a long-standing partner of EDF, we are focused on accelerating the transition to a sustainable energy and transport future. V2G is essential to this transition as it allows the electricity contained in electric vehicle batteries to be pooled to support the grid as a virtual power plant. Bidirectional grid services are the key to achieving energy independence and the integration of electric vehicles while reducing carbon emissions in the EU and globally."*

About EDF

The EDF Group is a key player in the energy transition, as an integrated energy operator engaged in all aspects of the energy business: power generation, distribution, trading, energy sales and energy services. The Group is a world leader in low-carbon energy, with a low carbon output of 434TWh (1), a diverse generation mix based mainly on nuclear and renewable energy (including hydropower). It is also investing in new technologies to support the energy transition. EDF's raison d'être is to build a net zero energy future with electricity and innovative solutions and services, to help save the planet and drive well-being and economic development. The Group supplies energy and services to approximately 40.9 million customers (2) and generated consolidated sales of €139.7 billion in 2023.

(1) See [EDF's 2024 URD](#) sections 1.2.3, 1.3.2 and 3.1

(2) Customers are counted per delivery site. A customer may have two delivery points.

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About ARVAL

Arval is a major actor in full-service vehicle leasing and a specialist in mobility solutions founded in 1989. Arval is fully owned by BNP Paribas and positioned within the Group's Commercial, Personal Banking & Services division. Arval was leasing 1.75 million vehicles as at the end of June 2024. Every day, 8,600 Arval employees in 29 countries offer flexible solutions to make journeys seamless and sustainable for its customers, ranging from large international corporate groups to smaller companies and private customers.

Arval is a founding member of the Element-Arval Global Alliance. The fleets of all the Alliance members represent more than 4.4 million vehicles in 55 countries.

Arval has been rewarded with the EcoVadis 2024 gold medal, placing its CSR strategy in the Top 5% of the companies assessed. www.arval.com

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About BNP PARIBAS LEASING SOLUTIONS

BNP Paribas Leasing Solutions supports the development of its industrial customers and partners by offering them leasing and financing solutions with services to preserve their working capital.

At the heart of financing the real economy, BNP Paribas Leasing Solutions provides companies with the flexibility they need to remain competitive and develop responsibly and sustainably in their markets (agriculture, construction, IT, telecommunications, transport, medical, real estate, security, food, handling, mobility infrastructures, etc.).

Its 3,700 employees support the growth of its customers and partners in 20 countries, not only in Europe but also in China, the United States and Canada.

In 2022, BNP Paribas Leasing Solutions financed more than 317,000 projects for a total volume of 14.9 billion euros. Total assets under management at the end of December 2022 amounted to €38.3 billion.

In 2022, BNP Paribas Leasing Solutions was named "European Lessor of the Year" and was also awarded "Best Energy Transition Financing Program" by Leasing Life, Europe's leading leasing magazine.

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About ENEDIS

Enedis is a public utility company that manages the electricity distribution network and employs 38,000 people. Serving 37 million customers, it develops, operates and modernises 1.4 million kilometres of low- and medium-voltage electricity network (230 and 20,000 volts) and manages the associated data. Enedis connects customers, carries out repairs 24 hours a day, 7



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days a week, reads meters and carries out all technical interventions. Working on behalf of the local authorities that own the networks, it is independent of the energy suppliers, who are responsible for selling and managing the electricity supply contract.

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About IVECO

IVECO is a brand of Iveco Group N.V. (MI: IVG). IVECO designs, manufactures and markets a wide range of light, medium and heavy commercial vehicles, off-road trucks and vehicles for applications such as off-road missions.

The brand's broad product range includes the Daily, a vehicle that covers the 3.3 to 7.2 tonne segment, the Eurocargo from 6 to 19 tonnes and, in the heavy vehicle segment over 16 tonnes, the IVECO WAY range with the IVECO S-WAY road, the IVECO T-WAY off-road and the IVECO X-WAY for light off-road missions.

IVECO employs nearly 21,000 people worldwide. It manages production sites in 7 countries in Europe, Asia, Africa, Oceania and Latin America, where it produces vehicles equipped with the latest cutting-edge technology. 4,200 sales and service outlets in over 160 countries guarantee technical assistance wherever an IVECO vehicle is used.

About NUVVE

Founded in 2010, Nuvve Holding Corp (Nasdaq: NVVE) has successfully deployed vehicle-to-grid (V2G) technology on five continents, offering turnkey electrification solutions for fleets of all types. Nuvve combines the world's most advanced V2G technology with an ecosystem of electrification partners, bringing new value to electric vehicle (EV) owners, accelerating EV adoption and supporting a global transition to clean energy. Nuvve makes the grid more resilient, transforms EVs into mobile energy storage assets, improves sustainable transportation and supports energy equity in an electrified world. Nuvve is headquartered in San Diego, California. For more information, visit nuvve.com.

About STELLANTIS

Stellantis N.V. (NYSE / MTA / Euronext Paris: STLA) is one of the world's leading carmakers and mobility providers. Its historic and iconic brands embody the passion of their visionary founders and today's customers in their innovative products and services, including Abarth, Alfa Romeo, Chrysler, Citroën, Dodge, DS Automobiles, Fiat, Jeep®, Lancia, Maserati, Opel, Peugeot, Ram, Vauxhall, Free2move and Leasys. With our diversity, we are at the forefront of mobility in the world - we aspire to be the largest sustainable mobility technology company, not the largest, while creating value for all stakeholders and the communities in which it operates. For more information, visit www.stellantis.com

About VOLKSWAGEN GROUP FRANCE

Volkswagen Group France is the leading importer on the French market, representing the Volkswagen, Volkswagen Commercial Vehicles, Audi, SEAT, Cupra and Skoda brands. Volkswagen Group France is also the largest employer in the Aisne department. The Group has 700 distribution sites and 800 service sites across the country, and employs a total of 18,000 people at its head office and partner sites in France. Founded in 1960, Volkswagen Group France is the French subsidiary of Volkswagen AG. Its role is to market the products, spare parts and accessories of the Volkswagen, Audi, SEAT, CUPRA, ŠKODA, Volkswagen Commercial Vehicles and Lamborghini brands in France.

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