PRESS RELEASE

# THE VEHICLE-TO-GRID PILOT PROJECT HAS BEEN INAUGURATED AT MIRAFIORI

## FCA, ENGIE Eps and Terna together for the development of the biggest worldwide hub dedicated to sustainable mobility

**Torino, 14 September 2020** – FCA, ENGIE Eps and Terna have presented today, in the evocative location of the Heritage Hub within the Mirafiori FCA's premises in Turin, the pilot project Vehicle-to-Grid (V2G) of electric mobility, which once totally completed, will become worldwide the biggest of its kind.

The V2G installation, in the logistic service area of Drosso, has been inaugurated during an international press conference in the presence of the Minister of Economic Development, Stefano Patuanelli, the representatives of the parliamentary committees concerned with the day's themes, the highest officials from the Piedmont Region and the City of Turin – as well as many more guests from national and international institutions and publications – where FCA, ENGIE Eps and Terna presented the V2G project, describing its features and how it works.

The V2G plant at Mirafiori is a project "100% made in Italy". On the one hand, it is a significant opportunity for the Italian industrial system to take a leading role in the development of the future of sustainable mobility. On the other, it is the result of the joint effort of three companies that lead their sectors. In their use of such an innovative technology, their experiments are now beginning on a bidirectional charging solution that benefits from physical aggregation in a single point of interconnection with the power grid, capable of interacting with the other energy resources on site.

V2G technology enables vehicles to exchange energy with the power grid, making them a valuable resource for the national power grid operated by Terna, to contribute to the establishment of a more sustainable electrical system and to represent an opportunity to optimize the operating costs of the cars for the benefit of motorists, as well as a concrete possibility of contributing to a more sustainable electricity system.

Bidirectional technology – which both charges the car and returns power to the grid – can only work efficiently when the car and the charging infrastructure speak a common language. This is the focus of the trial launched with the inauguration of the plant.

V2G thus represents a major opportunity, which is why FCA – together with its partners ENGIE Eps, the technicians who built the plant, and Terna, the operator of the high- and ultra-high-voltage national power grid – has committed to a cutting-edge project, an example of genuine innovation.

The construction of the plant in just four months, despite the lockdown due to the COVID-19 outbreak, has enabled the transformation of what is typically only a cost (the storage of vehicles waiting to be delivered to the sales network) into a benefit that could be exploited by vehicle fleet managers in the not-too-distant future. Indeed, a (potentially high) number of vehicles parked for long periods in one place represents an opportunity to provide services to the network in an 'aggregated' manner.

Phase 1 of the plant's construction has consisted of the installation of 32 V2G columns capable of connecting 64 vehicles, aimed at piloting the technology and managing the logistics of the storage area. By the end of 2021, the Drosso V2G project will be extended to interconnect up to 700 electric vehicles, making it the largest facility of its kind ever built in the world. The management of phase 2 will be mainly dictated by cost-effectiveness: the objectives will be to provide services to Terna power grid and to ensure a positive economic result for FCA and ENGIE Eps.

To cover the parking spaces for the cars connected to the V2G, ENGIE Italia is a partner in the construction of an enormous roof consisting of around 12,000 solar panels, which will supply the production and logistics facilities with 'green' energy. The plant will be able to produce over 6,500 MWh of energy every year, resulting in the offsetting of more than 2,100 tons of CO2 emissions per year, a boon for the environment. The project therefore represents a significant contribution to decarbonization in the industrial sector.

The press conference was divided into two parts, the first structured as a talk show where the three stakeholder companies went into greater detail on their rationale for deciding to become part of this project.

**Roberto Di Stefano** (Head of e-Mobility for FCA's EMEA Region) explained: "Vehicle-to-Grid technology represents a significant opportunity to optimize the operating costs of cars for the benefit of motorists, as well as the concrete possibility of contributing to the sustainability of the power grid. However, we need a V2G-friendly regulatory environment. The Ministry of Economic Development has laid down criteria and means to promote the dissemination of Vehicle-to-Grid technology in Italy, with the aim of facilitating the spread of electric vehicles and the increase in flexible resources the electricity system requires for sufficient mainstreaming of renewable sources. A full regulatory framework is now expected to follow, referring to the fair remuneration of network stabilization services and coverage of the additional costs associated with the installation of bidirectional connecting devices and measurement systems, for the provision of ancillary services".

For **Massimiliano Garri** (Director of Innovation and Digital Solutions, Terna): "The V2G electric mobility project presented today with FCA and ENGIE Eps is the result of a positive shared pathway of research and development, which boosts Terna's central role as an enabler of the energy transition. E-cars represent a highly significant potential source of energy and a great opportunity to help achieve a more sustainable and decarbonized electricity system. The smart, bidirectional interaction between cars and the grid also gives Terna more flexibility resources and innovative services that, together with our distinctive skill set, ensure increasingly reliable and efficient service operations".

Finally, **Carlalberto Guglielminotti** (Chief Executive Officer, ENGIE Eps) stated: "in 2030, with the forecast that even if only 5% of vehicles driven in Europe are electric, EVs will become the dominant technology that will revolutionize the power grid and will be decisive for every single balance within the European energy markets." ENGIE Eps, already a pioneer and leader in microgrids and energy storage, felt compelled to take on the challenge of managing this massive change in the world of energy, by providing an innovative technology solution, as they always do. That's why, in 2017, ENGIE Eps made major investments in research and development, jointly with FCA, to build Vehicle-to-Grid technology, inaugurated today. In fact, V2G is the solution that will bring about the biggest paradigm shift within the system of electric mobility and the world's electrical systems. At ENGIE Eps, we're extremely proud of having enabled its construction, finally speeding up and increasing the sustainability of the already unstoppable energy transition".

The second part of the event was given over to technical insights and to the conclusions of Pietro Gorlier (Chief Operating Officer of FCA's EMEA region) and Stefano Patuanelli, Minister of Economic Development.

**Pietro Gorlier** stated: "sustainable mobility is a key pillar for FCA, one on which all our activities are based. In Italy alone – including with the launch of production related to electric and electrified mobility – FCA is investing €5 billion, affecting every one of our plants, with €2 billion of the total destined for the Mirafiori complex. In this context, several other projects are also taking place in addition to V2G, including the solar panels of the Solar Power Production Units: a surface area of 150,000 square meters, capable of producing 15 MW of power and thus contributing to reducing emissions by over 5,000 tons of CO2. Or the Battery Hub, where batteries will be assembled using state-of-the-art technology.

It is now vital that the regulatory aspects be set out, now being worked on by the institutions. A national plan for public and private charging infrastructure must also be launched to support the rising number of electrified vehicles.".

With a recorded video message, European Union Commissioner for Energy **Kadri Simson** also wished to be present at the event. She emphasized that "the EU energy systems will benefit significantly from the participation of electric vehicles in all electricity markets as electricity suppliers – either directly or through aggregators. It will allow us to use more renewable electricity for deep decarbonisation".

In his closing remarks, Minister **Stefano Patuanelli** stated that the Ministry of Economic Development enters into constant discussion and dialog with the parties involved in the construction of the future in this country, and guaranteed the utmost commitment of his department to the building of the regulatory framework and the related incentives required to support the development of enabling technologies for electric mobility. V2G acts as a central solution to increase accessibility to this form of mobility. The implementation of this project places Italy in a leading position in Europe

The day ended with the inauguration of the plant by Minister Patuanelli and FCA Chairman John Elkann, who connected a new Fiat 500e to a bidirectional column in the V2G plant at the Drosso logistics hub at Mirafiori, Turin.

* * *

**ENGIE EPS**

ENGIE EPS is an industrial player within the ENGIE group that develops technologies to revolutionize the paradigm shift in the global energy system towards renewable energy sources and electric mobility. Listed on Euronext Paris (EPS:FP), ENGIE EPS is listed in the CAC® Mid & Small and the CAC® All-Tradable financial indices. Its registered office is in Paris and conducts its research, development and manufacturing in Italy.

For more informations: www.engie-eps.com

**Contacts ENGIE EPS**

**Press and Media:** eps@imagebuilding.it

**Investor Relations:** ir@engie-eps.com

follow us on LinkedIn

**PRESS RELEASE**

* * *

## FIAT CHRYSLER AUTOMOBILES

Fiat Chrysler Automobiles (FCA) is a global automaker that designs, engineers, manufactures and sells vehicles in a portfolio of exciting brands that includes Abarth, Alfa Romeo, Chrysler, Dodge, Fiat, Fiat Professional, Jeep®, Lancia, Ram and Maserati. It also sells parts and services under the Mopar name and operates in the components and production systems sectors under the Comau and Teksid brands. FCA employs nearly 200,000 people around the globe.

For more information on FCA, please visit www.fcagroup.com

### For further information

+39 (011) 00 31111
mediarelations@fcagroup.com
www.fcagroup.com

* * *

## TERNA

The Terna Group is one of Europe's leading operators of energy transmission networks and manages Italy's high-voltage national grid, with over 74,000 km of power lines. Terna's role is to ensure the safety, quality and efficiency of the national electricity system and access to equal conditions for all operators in the market. Terna is at the heart of the process of energy transition toward complete decarbonization and full integration into the grid of energy produced from renewable sources.

For more information: www.terna.it.

### Terna contacts details

(+39) 06 8313 9081
ufficio.stampa@terna.it