

Energy transition: Stellantis strengthens the decarbonization of its French plants thanks to its large-scale solar program with GreenYellow

As part of its strategy combining industrial competitiveness and reducing its carbon footprint, Stellantis, a leading global car manufacturer, is deploying three new solar power plants for self-consumption at its sites in Valenciennes, Caen and Charleville. With a total capacity of nearly 12 MWp, these facilities are being built in partnership with GreenYellow, an international leader in the decentralized energy transition, which is responsible for the study, financing, design, installation and operation. Together, they will locally generate the equivalent of the annual electricity consumption of more than 5,000 inhabitants.



Stellantis Charleville

Three flagship solar power plants for Stellantis in France

Stellantis has reached a major milestone in its decarbonization roadmap with the commissioning of three solar power plants at its French industrial sites. These projects have a threefold objective: **reduce its exposure** to fluctuations in energy prices, **reduce CO₂ emissions** linked to production activities and **improve the comfort of employees and visitors** thanks to the coverage of car parks. Beyond the generation of green energy, these installations improve the use of already artificialized land, protect vehicles from weather conditions, reduce heat island effects, and enhance the daily on-site experience.

The deployment covers three key industrial hubs:

- **Charleville (Ardennes):** The largest of the three projects, with a capacity of **4.8 MWp** spread over **7,741 PV panels**. The plant will generate **4.5 GWh/year**, equivalent to the annual consumption of **+2,000 inhabitants** and will avoid **252 tonnes of CO₂ per year**.
- **Valenciennes (North):** A **4.6 MWp installation** integrating **7,419 PV panels**. It will generate more than **4.6 GWh/year**, corresponding to the annual consumption of **+2,000 inhabitants**, and will contribute to reducing emissions by **256 tonnes of CO₂ each year**.
- **Caen (Calvados):** With a capacity of **2.4 MWp**, this power plant integrating **3,870 panels** will generate nearly **2.3 GWh/year**, equivalent to the annual consumption of **+1,000 inhabitants**, and allowing a reduction of **128 tonnes of CO₂ per year**.

Overall, these **self-consumption photovoltaic carport installations** will avoid **more than 630 tonnes of CO₂ each year**, while securing part of the energy supply of the industrial sites.

Four other ground-mounted power plants for self-consumption are already under development, further strengthening the group's energy strategy.

This solarization program carried out with GreenYellow confirms **the strategic role of self-consumption for Stellantis: local, sustainable and controlled energy**, resilient to market fluctuations and serving both the Group's industrial performance and environmental ambitions.

Mathieu CAMBET, Deputy General Manager of GreenYellow France: *"This collaboration between Stellantis and GreenYellow demonstrates how industry and energy players can combine their expertise to accelerate the energy transition. These self-consumption solar power plants turn decarbonization objectives into concrete achievements by combining local energy generation and competitiveness."*



Stellantis Caen

A pan-European dynamic

Stellantis and GreenYellow share a common ambition to extend these initiatives across Europe, combining **industrial performance, energy resilience and long-term decarbonization**:

- **In Spain (Madrid)**, Stellantis and GreenYellow have deployed a multimodal project on an unprecedented scale combining solar generation, electrification of thermal processes and energy storage. The **ground-mounted photovoltaic power plant** with a capacity of 4.6 MWp generates nearly 7 GWh/year for self-consumption and combined with **rooftop solar installations**, brings the **total capacity to 12.9 MWp** for a production of **18.8 GWh/year**. This infrastructure alone reduces **931 tonnes of CO₂ per year**. The site has also acquired the **largest battery storage system (#BESS) in Europe dedicated to photovoltaic self-consumption**, with a **capacity of 25 MWh**, guaranteeing better stability and optimal recovery of the energy generated. At the same time, **energy efficiency actions on thermal processes** make it possible to save **an additional 2,500 MWh/year**, strengthening the overall performance of the site.
- **In Slovakia**, a **13 MWp ground-mounted solar power plant**, generating **15.7 GWh/year for self-consumption** as part of a **17-year PPA**, is part of the same dynamic.

ABOUT GREENYELLOW

GreenYellow, a French company founded in 2007, has become in 19 years a major player in the energy transition in France and internationally, and a true partner of corporates and local authorities in their decarbonization journey and quest for energy independence.

As an expert in decentralized solar photovoltaic generation, energy efficiency programs and energy storage, GreenYellow supports its clients across the entire value chain. The group ensures the study, financing, development, and operation of assets that allow them to generate green, local, and competitive energy, reduce their energy consumption, while strengthening their competitiveness.

In 2024, the projects carried out by GreenYellow helped avoid the emission of almost 546,000 tons of CO₂ equivalent. The group also aims to achieve carbon neutrality (“Net Zero”) for scopes 1 and 2 by 2040.

Operating in some 15 countries across 4 continents, GreenYellow innovates by constantly enriching its unique and global platform of offers to support its 1,400 clients in their transition to a more sustainable energy model and meet the challenges of climate change. [🔗 www.greenyellow.com/en](https://www.greenyellow.com/en)

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