

PRESS RELEASE

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MOBILIZE AND MORBIHAN ENERGIES JOIN FORCES TO INCREASE THE USE OF SOLAR ENERGY ON BELLE-ILE-EN-MER



- **Mobilize and Morbihan Energies set up a microgrid at Belle-Ile-en-Mer with four main pillars:**
 - **Solar energy production,**
 - **Stationary energy storage using EV batteries,**
 - **Smart management system to maximise solar energy use**
 - **Vehicle with bidirectional charging (V2G) to reinject power back into the grid**
- **The microgrid aims to increase self-consumption at the Belle-Ile “VVF Club Intense” holiday resort.**

The microgrid set up at the entrance to the “VVF Club Intense” holiday resort in Belle-Ile-en-Mer consists of a 200kWh stationary energy storage unit connected to 76kWp solar panels and run by an intelligent energy management system. The system helps increase on-site use of solar power while also reducing the VVF’s energy bill. Solar panels capture energy from the sun’s rays through modules that it then converts into electricity. The energy produced by the system must be used in real time or stored for later use when energy demand is high.

10 Renault ZOE second-life batteries to better use solar energy

Installed in May 2022, the stationary storage system incorporates 10 Renault ZOE second-life batteries and boasts a storage capacity of 200kWh. The storage charges up when solar energy supply exceeds demand or during off-peak hours. VVF residents can charge their electric vehicles with low-carbon energy, while over-production helps optimize the resort's overall energy consumption.

For a period of six months, the system will feature a Renault ZOE bidirectional (V2G) prototype. The vehicle will be steered by the smart microgrid management system and will be used to store solar energy and reinject into the local grid when needed. The aim of the pilot test is to study what impact reversible charging can have on a local electricity grid when paired with an energy storage system, to foster on-site solar energy use and reduce the amount of electricity taken from the primary grid.

An initiative recognised by the "Innovation Territories" and "Smartgrids" calls for projects

The microgrid falls within a much broader project led by Morbihan Énergies in its efforts to make the Morbihan region less energy dependant and more adaptable to the impact of seasonal tourism. For island related matters, an agreement has been signed with the Association des Îles du Ponant to develop projects in favour of energy transition. It is within this framework and following the discussions carried out with the town hall of Le Palais, that the site operated by VVF was chosen to host this experiment. Winner of the 'Territoires d'Innovation' program, the project benefits from government backing and support from the Banque des Territoires, in particular through the Future Investments Program. In addition, the project is supported by the ERDF (European Regional Development Fund), and has won the 'Smartgrids' request for proposals, which aims to optimize the use of renewable energies in Brittany (western France).

About Mobilize

Mobilize, the brand of Renault Group dedicated to new mobility, offers a wide range of services around the vehicle thanks to an integrated technological platform: financing, insurance, payments, energy, maintenance and refurbishing. Built around open ecosystems, Mobilize encourages a sustainable energy transition, in line with Renault Group's goal of achieving carbon neutrality in Europe and its ambition to develop value from the circular economy.

For more information visit mobilize.com or follow Mobilize on sur [Twitter](https://twitter.com/mobilize), [Instagram](https://www.instagram.com/mobilize) and [LinkedIn](https://www.linkedin.com/company/mobilize)

About Morbihan Énergies

Owner of more than 22,000km of electrical grid, Morbihan Énergies is the only electricity distributor in the Morbihan region. Officially recognised as an *établissement public de coopération intercommunale* (public agency for local cooperation), it invests more than €40 million every year in the local grid. Over the years, it has become a key public player, supporting local authorities attain energy and digital transition objectives throughout the Morbihan region. Over the past few years, Morbihan Énergies and the semi-public enterprise '56 Énergies', have championed a number of flagship programmes in fields such as hydrogen mobility with the June 2017 opening of a green hydrogen station, 1st demonstrator model in Brittany, electric mobility (200 charging stations deployed and actively operated, three fully-operational CNG stations, a vehicle-based solar-powered hydrogen production demonstrator), renewables (solar generator, on-site production/use with Partagélec, flexibility, storage, aggregating platforms), and digital solutions (GIE pooling, and local authority support with PCRS, OpenData, GDPR, sovereign cloud).

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