Data center energy storage france

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We are aiming to develop 5 to 7 gigawatts (GW) of gross electricity storage capacity worldwide by 2030, thanks in particular to battery-based energy storage systems. To achieve this ambition, we are harnessing the technological expertise of our affiliate Saft. Learn more about our achievements and projects in this field.

Battery-based ESS systems are a major challenge for the future of power grids and an essential complement to renewable energies, which are intermittent by nature. Large-scale ESS systems are vital for promoting the growth of renewables and enabling them to represent a major proportion of the electricity mix. TotalEnergies is developing several projects in this area with the objective of:

In February 2020, TotalEnergies was awarded 129 megawatts (MW) of battery-based storage capacity in France as part of a call for tenders issued by the French Electricity Transmission System Operator (RTE).

By commissioning these facilities, TotalEnergies is one of the first companies to bring its ESS systems into service while addressing the requirements of RTE"s long-term calls for tenders. These calls for tenders are focused on developing new ESS solutions that are more virtuous, flexible and effective at ensuring security of supply and meeting the expectations of the European Commission.

Our ESS solutions are spread across several facilities housed at three sites within the Company, namely Dunkirk, Carling and Grandpuits. Our sites comprise containers of lithium-on batteries designed and assembled by Saft, which deliver some of the highest energy performance levels in the market, both in terms of density and longevity (lifecycle up to 20 years).

In December 2021, we commissioned the first of these facilities at the Flanders center in Dunkirk. Featuring 27 containers, each with a storage capacity of 2.5 MWh, it can maintain power for over 200,000 homes for one hour. With a total storage capacity of 61 MWh, this is the largest battery-based energy storage site in France.

The battery-based ESS facility at the Carling platform came on stream in May 2022 and comprises 11 battery containers. The facility has a storage capacity of 25 MWh, thereby reinforcing our multi-energy strategy at the platform, which is diversifying its activities through electricity production and storage, in addition to its hydrocarbon resin and polymer production units.

The battery-based ESS facility at the Grandpuits platform was commissioned in March 2023 with a capacity of 43 MWh and builds on the platform"s electricity generation system, which includes two solar power plants of 28 and 24 MWp respectively.

In May 2023, we launched our largest European battery-based energy storage project at the Antwerp platform in Belgium. With its 40 containers, the site will develop a capacity of 75 MWh, which is equivalent to the

daily consumption of almost 10,000 homes. It will be operational by the end of 2024 and will contribute 24/7 to the needs of the European and Belgian high-voltage transmission network.

In April 2024, we announced the launch of a new battery-based project in the country, at our depot in Feluy, with a start-up expected at the end of 2025. It will have a power rating of 25 MW and capacity of 75 MWh, thanks to the forty "Intensium Max High Energy" lithium-ion containers supplied by Saft.

In July 2024, we signed the final investment decision for a 100MW/200MWh battery electricity storage project in Germany, in Dahlem (North Rhine-Westphalia). This project, piloted by Kyon Energy- acquired by TotalEnergies in February2024- will benefit from Saft"s latest-generation electricity storage technology (iShift LFP / lithium-iron-phosphate containers).

Commercial operation of the project is scheduled for2026. Quadra Energy, one of Germany"s leading aggregators of renewable electricity production, acquired by TotalEnergies in2023, will be responsible for valuing the flexibility provided by these batteries on the electricity markets.

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