

# French Guiana all in one energy storage

French renewable energy company Voltalia has completed the expansion of a renewable energy plant in French Guiana, adding a battery energy storage system (BESS) of 10.6MWh. The Paris-listed company announced the commissioning of the Sable Blanc solar-plus-storage project yesterday (10 May).

Renewable power plants operator Voltalia SA on Thursday announced the commissioning of its 5-MW Parc Sable Blanc solar farm with an integrated storage system in French Guiana. The Paris-based company secured the project in a government tender for solar projects in non-interconnected zones (ZNIs) in May 2021 .

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CEOG will provide cheaper and firm power all year long, day and night, to 10 000 homes in Western Guiana. Combining a photovoltaic plant and mass storage of energy in the form of hydrogen, CEOG is the alternative to a classic diesel power plant.

Meridiam is partnering with Hydrogène de France (HDF) - a French company specialized in the development of hydrogen storage solutions - and the SARA - a French company specialized in the distribution of petroleum in French Guiana and the French Caribbean, to develop this innovative and flagship hydrogen-based project.

The complex will be capable of storing 128 MWh of power using long-term hydrogen storage and batteries for short-term storage. HDF is the developer of the project, while Meridiam and SARA are equity shareholders alongside the French company. The partners will pour some USD 200 million (EUR 170.9m) to implement the scheme.

CEOG is touted to be the world's first multi-megawatt hydrogen power plant, and the largest green hydrogen storage of intermittent electricity sources (128MWh). Damien HAVARD, CEO of HDF Energy said: "By supplying non-intermittent renewable energy... CEOG opens a new era for renewable energies."

The Centrale Electrique de l'Ouest Guyanais (CEOG) project under construction in French Guiana, will be the world's biggest hydrogen-based renewable energy storage facility, upon completion. Also called the Western French Guiana power plant, the project includes a 55MW photovoltaic (PV) solar park and a 128MWh hydrogen-based energy storage ...

At present, Voltalia has 29 MW of capacity in operation and under construction in French Guiana. This total



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includes biomass, hydropower, battery storage and solar photovoltaic (PV) projects.

HDF Energy's Renewable solution combines a 55 MW solar farm with what the company says is the world's largest renewable energy storage solution, to provide a ground-breaking 140 MWh capacity, based on hydrogen for use in a fuel cell system.



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