

Electricity generation dakar

The project's development is headed by West African Energy, which holds an 85% stake, and Société Nationale d'Électricité du Sénégal (Senelec), the national electricity utility company, with a 15% share.

The plant is being developed as an independent power producer, with Senelec as the sole purchaser of the electricity generated. It is projected to produce up to 25% of Senegal's power demand, thereby meeting the electricity requirements of half a million households in the country.

Aligned with the Senegalese Government's gas-to-power strategy and the Emerging Senegal Plan, the project aims to reduce the cost of electricity by 2035. The project will utilise domestic gas to generate electricity at a reduced cost.

The transformers for the project, weighing a collective 542t, arrived at the port of Dakar in May 2022, signalling the project had reached 35% completion. The gas turbines and generators were subsequently received in August 2023.

Powered by natural gas, the Cap des Biches CCPP will consist of two GE.03 gas turbines, each with 120MW of capacity, an STF-A200 steam turbine and three A39 generators. Additionally, it will be outfitted with two heat recovery steam generators (HRSG) and associated balance of plant equipment.

The will involve the installation of a turbine capable of generating 120MW in a simple cycle process. The second phase will transition the plant to combined-cycle operation with the installation of the steam turbine and the recovery boiler.

The turbine employs materials from proven E and F-classes and is fired at lower E-class temperatures for the hot gas path. It also features cooling, and sealing improvements, improved clearances and improved work distribution. The turbine can use more than 52 types of fuel.

The African Development Bank is serving as the mandated lead arranger for the banks and lenders providing the financing. Fasken has been the principal advisor to West African Energy in securing the financing facility.

GE Vernova, a division of General Electric (GE) specialising in gas power, was granted a 25-year service agreement for the project in October 2023. The contract encompasses the provision of asset performance management software to enhance predictive analytics across the power project.



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