

# The Gambia system on grid

What is the electricity system in the Gambia?

The existing electricity network in The Gambia consists of a number of separate 33 kV and 30 kV systems fed from local power plants throughout the country. On-going projects are developing the transmission grid to interconnect these systems and establish interconnections with neighbouring systems.

Will the Gambia be able to provide universal access to electricity?

The Gambia is poised to provide access to electricity for all its people. His Excellency, President Adama Barrow has stipulated that there is to be Universal Access by 2025. Given its unique geography, the country is fortunate in being able to achieve universal access almost exclusively through connections to the NAWEC grid.

Can the Gambia transform the energy sector?

An unprecedented level of support from the international community provides The Gambia with the opportunity to transform the energy sector and emerge as one of the leading energy sectors in the sub-region and the African continent. In this context, the Electricity Roadmap has undergone its third update since 2015.

Should MV grid be strengthened in the Gambia?

Reinforcement of the MV grid from Farafenni or via a cable across the river from Banjul are alternatives that may be considered if the western corridor does not present a viable solution. Transmission developments in The Gambia should be considered in relation to regional options.

Why is electricity so expensive in The Gambia?

The average tariff for electricity in The Gambia is one of the highest in the world at \$0.23/kilowatt hour (kWh). This high cost is due to expensive imports of HFO for NAWEC's generators, leading to increased production and supply expenses.

How much power does the Gambia have?

As described in the previous section, transmission linkages will create a unified national network by 2022-23. As of mid 2021, the total net installed capacity in The Gambia is 154.5 MW of reciprocating engines, but only 97.0 MW are currently available for power generation.

The current grid system is not integrated and works are in progress to implement a single national grid. Like generation, the transmission and distribution (T& D) system is dramatically underperforming as the loss encountered recently stood at 25% (comprising both technical and non-technical losses 2 ) [7].

Mini-Grid and Off-Grid Systems. There is a high level of development of the regulatory framework for mini-grid and off grid systems in The Gambia. The country has a national integrated electrification plan that sets out a least-cost electrification pathway, including grid, mini-grid, and off-grid systems and clearly

demarcating areas for each ...

The Gambia's power system, with a total installed generation capacity of 88 MW, consists of a ... NAWEC grid and a 450kW wind turbine generator for a mini- -grid to supply a fisheries community at Tanji, near Batakunku,, and an 84-kW solar-wind hybrid system to supply the .

renewable systems can be fed into the grid in The Gambia, providing clean and reliable power supply. Already, the country has some experience in this area. The government is working to set a feed-in-tariff and finalize a Power Purchase Agreement (PPA) that would facilitate the entry of the private sector in The Gambia's power sector.

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Grid-connected Solar PV in The Gambia The Solar Power Project in The Gambia is planning to install 10.5 MW capacity across two regional grids, supplying 145,000 people ... on the different strengths and skills within the UN system, to support developing and Least Developed Countries such as The Gambia accelerate their development in a

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Overall, The Gambia government should focus on developing three main electricity generation sources beyond oil based systems (including mainly new and existing HFO power plants). These sources include solar PV (grid and off-grid systems), wind onshore, and more importantly hydroelectricity imports.

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(Friday 18 October 2019 Issue) The Ministry of Petroleum and Energy (MoPE) on Tuesday validated the off-grid solar market assessment report for The Gambia organised as part of the preparatory phase of the Regional Off-grid Electrification Project (ROGEP) funded by the World Bank and Clean Technology Fund and implemented by the ECOWAS Center for Renewable ...

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Figure 9 Levelised cost of generation of different scale systems in The Gambia 34 Figure 10 Life cycle cost comparison between PV and diesel

The Gambia is confronted with both infrastructural and financial constraints in providing grid connectivity to rural and remote areas. Electricity in the country is quite expensive, regional ...

The Gambia Electricity System Reinforcement and Expansion (GESREP) project aims to increase grid electricity access within The Gambia to provide its population with reliable and affordable electricity. Location Banjul Area. Country Republic of the Gambia.

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The Gambia Electricity System Reinforcement and Expansion (GESREP) project aims at increasing grid electricity access of The Gambia. Provide people with reliable electricity, increase NAWEC's billing and revenue collection capacity and institutional strengthening. The activities related to the construction of two (2)

Conclusion of Solar-Powered Borehole and Water System Project - The Gambia. This project has been completed under the direction of Peace Corps Volunteer Rehan Khan. To read ... The village water source is powered by a Government electrical grid system, which is extremely inconsistent. In theory, this tap-system is supposed to provide water to ...

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