

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.

Does the Gambia need more power generation capacity?

The Gambia's power sector will soon need additional generation capacity to be able to cover the forecast demand. A gap between available capacity and peak demand is identified from 2022 with the expiration of the Karpower contract and by 2025 nearly 140 MW of new capacity will be needed.

Are biomass power plants suitable for the Gambia?

However, biomass candidate power plants were excluded from the analysis as they were considered by NAWEC inadequate technologies for The Gambia. The potential of wind capacity in The Gambia is estimated to be approximately 197 MW with a capacity factor below 20% and 5 MW with a capacity factor higher than 30%¹⁰.

Should the Gambia import electricity from Senegal or Cote d'Ivoire?

The most important conclusion from the generation planning is that the least cost option for The Gambia is to import electricity from Senegal and/or Cote d'Ivoire. This conclusion is robust in all scenarios considered.

What is the potential of wind capacity in the Gambia?

The potential of wind capacity in The Gambia is estimated to be approximately 197 MW with a capacity factor below 20% and 5 MW with a capacity factor higher than 30%¹⁰. Generic wind farms were included in the least cost planning analysis and were modelled in blocks of 3.6 MW.

Is Gambia ready for a new era of renewables?

Gambia: strong international support for a new era of renewables with inauguration of historic 23 MWp solar plant A significant strategic project with strong substantial economic and social impacts, the recently inaugurated solar photovoltaic plant in Jambur is poised to supply electricity to approximately 18,500

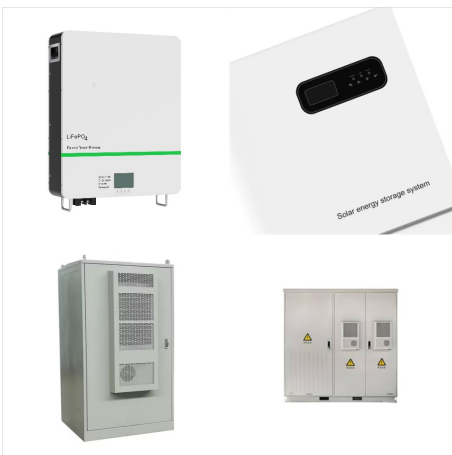
THE GAMBIA MECHANICAL POWER STORAGE



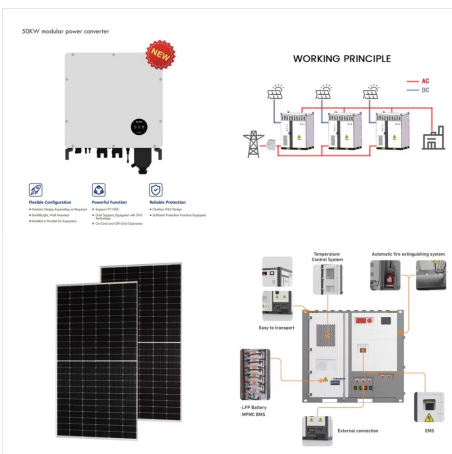
households.



To this effect, this research aims to explore the perspectives of retail petroleum marketing as well as challenges of petroleum import, storage and sales in the Gambia's downstream petroleum



ABSTRACT:- The Gambia government recognizes the critical need to provide sustainable, affordable and environmentally sound energy services to all Gambians. The current electricity power generation, transmission and distribution is facing serious challenges which are hampering the entire socio-economic development of the country.



This project component consists in the construction of a new 23 MWp solar park tied with 8MWh battery storage and aims to revolutionize power generation in the Gambia by serving as a direct complement to current generation ???

THE GAMBIA MECHANICAL POWER STORAGE



The Gambia's Electricity Sector Roadmap (2019-2025) aims to scale up electricity generation to 200 MW of available capacity at peak in 2025, with 14MW expected from the OMVG project with Guinea and Senegal, and 50MW from the Souapiti project and the remainder through Independent Power Producers (IPP).



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.



The regional and global energy landscape is ever-evolving, necessitating the need to update the Gambia's high-level energy sector plans and strategies to account for new market realities and opportunities.