# High voltage energy storage Guinea-Bissau

How sustainable is the electricity sector in Guinea Bissau?
The electricity sector in Guinea Bissau is in the midst of a transformational reform towards a sustainable development characterized by reliable, greener and affordable service delivery.

How much money is needed to achieve universal electricity access in Guinea Bissau?
8. Around US$263 millionof public and private funding will be needed to achieve universal electricity access in Guinea Bissau by 2030. To achieve this goal,a combination of grid (70%) and off-grid (30%) solutions will be required to bring 400,000 additional new connections18.

Will EAGB increase access to electricity in Bissau?
The Electricity Access Expansion Project (EAGB),under the supervision of the Ministry of Natural Resources and Energy,has had a historical dismal performance,which has constrained the provision of electricity and water services mainly to the capital,Bissau. The Bank's investment in densifying the distribution grid around OMVG substation is expected to increase access to electricity to 39%.

How many PPAS has EAGB signed with IPPs in Guinea Bissau?
In Guinea Bissau,the power purchaser EAGB has signed two PPAsso far: the first with the Karpowership company for a 30 MW HFO power barge,and the second with Electricité de Guinée (EDG),the national public electric utility of Guinea,for importing power through the OMVG transmission line by 2022.

Why is Bissau not able to support modern economic activity?
Modern economic activity in Bissau cannot be supported due to the absence of the transmission infrastructurein the distribution grid concentrated in Bissau. The distribution network is composed of 344 km of 0.4 kV low voltage lines,46 km of 6 kV lines (currently being replaced by 10 kV lines),and 68 km of 10 kV lines.

What is a performance contract between EAGB and Guinea Bissau?
The performance contract between EAGB and the Government of Guinea Bissau clarifies the responsibilities of both parties to improve the quality of EAGB's servicesin order to fulfill the expectations of the population.

The $685m development comprises 4,000 pylons and 15 substations and interconnects the grids of Gambia, Guinea, Guinea-Bissau, Senegal. As its name suggests, the 225kV, double-circuit line forms a circular network spanning the four countries.

The USD 225 million ECOWAS-REAP project (Phase 1) covers the Gambia, Guinea Bissau and Mali. The aim is for 2.5 million persons in the three countries to have access to electricity and the electrification of local communities in the Gambia (298), Guinea Bissau (66) and Mali (214) with 152,000 new interconnection

power lines in the three countries.

Data for medium and high voltage transmission lines in Guinea Bissau. The data were compiled for the AICD study led by the World Bank. A variety of sources were consulted, including regional power pool documents and maps from World Bank project documents.

Utilities in The Gambia, Guinea, Guinea-Bissau and Senegal have signed a transmission service agreement to create a loop high-voltage power transmission line in West Africa. As the name suggests, the 224kV, double-circuit line will form a circular network, spanning the four countries.

This major achievement eventually opens the door for Guinea-Bissau to join the interconnected grid and to benefit from a lower-cost energy supply imported from neighboring countries. The cornerstone for strengthening the energy resilience of the 14 West African countries has, therefore, just been laid.

In Bissau, solar photovoltaic (PV) plants will help reduce the average cost of electricity in the country and diversify the energy mix, while battery storage will help integrate this variable energy source into the grid.

low and medium voltage grid serves around 60 percent of the capital"s population. Guinea-Bissau is part of the OMVG interconnection project which will develop a 225 kV high-voltage transmission interconnection3. The country is also part of the ECOWAS-Regional Electricity

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Existing and planned transmission grid network (medium and high voltage lines) in the ECOWAS Region. Also covers other regions of West Africa. The source of the dataset is the West African Power Pool (WAPP) GIS database January 2017.

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