

Green electricity ghana

The Swiss renewable energy company NEK Umwelttechnik AG (NEK) has been developing in the past years six large-scale onshore wind farms in the Greater Accra Region of Ghana, which are ready for implementation.

The total capacity to be installed is approximately 1,300 MW through the six projects. These wind farms could produce about 3,400 GWh of green and cheap electricity each year for the Ghanaian population and the industrial sector.

To supply energy to as many customers as possible, NEK has established recently in Accra a new renewable energy platform, which will provide to its customers cheap, sustainable, never ending, and clean electricity to cover the increasing electricity demand in Ghana and to overcome dumsor.

The platform is called Anansi Green Energy Ltd. (Anansi). Anansi will assume, over time, all of NEK's wind farms and in addition will also undertake the development and operation of solar and biomass plants.

This new platform will have several equity partners, lenders, and investors, including large and well-known international power companies and green funds. Ghanaian investors, lenders and key stakeholders and institutions will also be involved in the implementation and financing of Anansi.

It is hoped, in the future, Anansi will be the vehicle through which Ghana can become a renewable hub for West Africa as a whole by also exporting renewable energy through the existing WAPP network to surrounding countries.

Although there will always be a need for baseload energy capacity in the planning of any energy sector, both for environmental and indeed affordability reasons it will be essential to create a structure through which renewable energy can be developed, without such relying on the public sector.

Mining companies, the concrete sector, steel manufacturers, but also other industries and the mobility sector will demand cheap and green electricity, which can be delivered by Anansi in the very near future.

Anansi will not become a competitor to ECG, VRA or NEDCo; nor will it be necessary for Anansi to have the traditional "take or pay" PPA with ECG or any support from the Government of Ghana.

Figure 3: Visualisation of another one of NEK's wind energy projects in Ghana. The onshore projects alone could amount up to 1,300 MW installed capacity and are located predominantly in rural areas.

Energy security and sustainability nowadays go hand in hand and are top of the agenda for many governments



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worldwide. Africa is no exception, with the continent facing rapidly growing energy demand, critical energy access gaps, and an imperative for development.

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