

INDEPENDENT POWER SUPPLY IN FIELD OFFICE

NEK has equipped its Ayitepa field office with independent power supply to ensure the workplace can be used without interruptions due to power outages, which occur during these times frequently in Ghana. NEK engineers designed and installed a system combining an 800 W wind turbine, 600 W of solar panels and a battery backup system.



Bird View of the Ayitepa Field Office.

With this installation, NEK can power its office 100% environmentally friendly by harvesting the great wind power potential that is currently unused in the entire Ningo-Prampram area.

The system that is providing regular 230V is able to supply power for lights, the computers, printers, a fridge and the air condition systems. In times when the power consumption in the office is lower than the production, the backup batteries are charged. When the power consumption is higher than the production from the turbine and PV panel, electricity from the battery is used as support. The office is still connected to the main ECG connection for environmental unfriendly days and maintenance on the system.

Apart from being independent from the frequent power outages, money can be saved with this installation, which NEK intends to install also in other houses for people in the area.



Wind Turbine at the Field Office in Ayitepa with supporting PV Panel

CONNECTED WITH EACH OTHER

The travel situation challenges our project. Accra's Kotoka International Airport was closed for more than five months and inter-continental traveling is still a complicated and exhausting thing. Therefore, we use video conferences whenever possible as well as other international companies and projects in these days. We are glad that we already gained a lot of experience before the pandemic. It is nothing unusual in our project when persons on 3 different continents are connected with each other.



KONIKABLO WIND FARM WHATSAPP GROUP

We would like to introduce the new Whatsapp Group of the Konikablo Wind Farm. The group is intended to share information about the development of the wind farm, answer general questions, let you know about upcoming community events and share pictures and videos from the field. Everyone welcome.



We inform in a sporadic manner and it is not our intention to overflow the participants with daily messages. How to join:

WhatsApp > Settings > QR (next to your name) > Scan Code

Or use the link below:

<https://chat.whatsapp.com/BRTtebMuu4uGillleDnxvy>

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200 MW KONIKABLO WIND FARM GREAT NINGO PROJECT NEWSLETTER

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THE NEW NORMAL



It is a pleasure to mention that our field office in Ayitepa has received one of the first wind turbines in Ghana. This is complemented by PV panels and ensures the power supply in the office. Furthermore, a battery backup system takes over in moments where the power consumption exceeds the power production. Although it is a small scale turbine and not comparable with a wind turbine of the planned Konikablo Wind Farm, it is a small but important showcase step towards renewable energy supply in Ghana.

The situation in the world is tensed and a lot of things which used to be normal some time ago are only possible with a lot of efforts. In case it is possible at all. This has a high impact on an international project as the Konikablo Wind Farm. Nevertheless, we are glad that our structure was already consolidated before the pandemic, that we are used to work in an international connected environment and that we have employees at all positions we can rely on. Video conference was already an important part of our daily work before Covid-19. We are looking forward to an era where accustomed things are possible again and our gained experience complement our habits: **the new normal**.

IN CONTACT WITH OFFTAKERS

The private sector is very interested in using our renewable energy for their production facilities. We are in close contact with multiple large companies which have a high energy demand and are aware of their responsibility towards the environment and the young generation as climate change becomes a more pressing issue.



CHRISTMAS PRESENTS

We aim to develop our project through a warm cooperation and good relationship between the local stakeholders and ourselves. Every year, we therefore celebrate Christmas with the local stakeholders by presenting to them a Christmas hamper with various goods for the daily use. The hamper contains beverages as well as ingredients to prepare several different meals.

The hampers are an important symbol to show our commitment to the local people at the project site.



Various Stakeholders receiving the Konikablo Christmas Presents

IES ENERGY MANIFESTO

NEK was invited at the IES Energy Manifesto in November 2020 at the Labadi Beach Hotel in Accra. The manifesto was organized in two parts, the first half was filled with presentations about the latest technology, current situation in Ghana and outlook how to fulfil the Paris climate agreements signed by the Ghanaian Government. The second part was a panel discussion between all parties participating in the election campaign.

NEK had the opportunity to present the current and future technology as well as suggestions



for the Government of Ghana to deal with the energy sector debt. Jasmine Kappiah presented the current renewable energy technology consisting of solar, biomass and wind energy. She also presented an outlook into the near future with 'Green Hydrogen' which solves the challenge of the energy storage and which will be the drive technology of the future.

Dr. Christoph Kapp was present via Zoom at the IES Energy Manifesto. He talked about the current power situation in Ghana and the Power Purchase Agreements (PPA) in the context of the over-capacity. For him, it is clear that Renewable Energy has a distinct advantage of a reduced price compared to traditional energy. This in turn supports the debt in the treasury and should be the key in the negotiations concerning PPA renewals.



Jasmine Kappiah at the IES Energy Manifesto in Accra. (Image: B&FT Online)

GNFS FIRE PERMIT FIELD INSPECTION

Officers of the Ghana National Fire Service (GNFS) from Tema made in September 2020 a field inspection at the project site. After the field inspection and review of the fire precautions, they issued the approval in principle for the Konikablo Wind Farm.

The operator of the wind farm assures with several provisions that there will be no fire or that a fire outbreak is as soon as possible under control. These provisions comprise smoke detector and sprinkler systems in the control room as well as water supply, fire extinguishers and access roads close to the turbines.

Furthermore, training and education is an important part of the job at the Konikablo Wind Farm. The employees should act fast and intuitive in case of an emergency. It is important to save live and environment.

As soon as the construction of the Konikablo Wind Farm is finished, the officers of the Ghana National Fire Service will check all precautions and functioning of the facilities before they issue the final fire certificate.



Fire Officers of GNFS at the Konikablo field inspection.

VIDEO OF THE IES ENERGY MANIFESTO

The full video of the IES Energy Manifesto at the Labadi Beach Hotel in November 2020 can be found on Facebook: <https://www.facebook.com/iesafrika/videos/838429980293806/>

