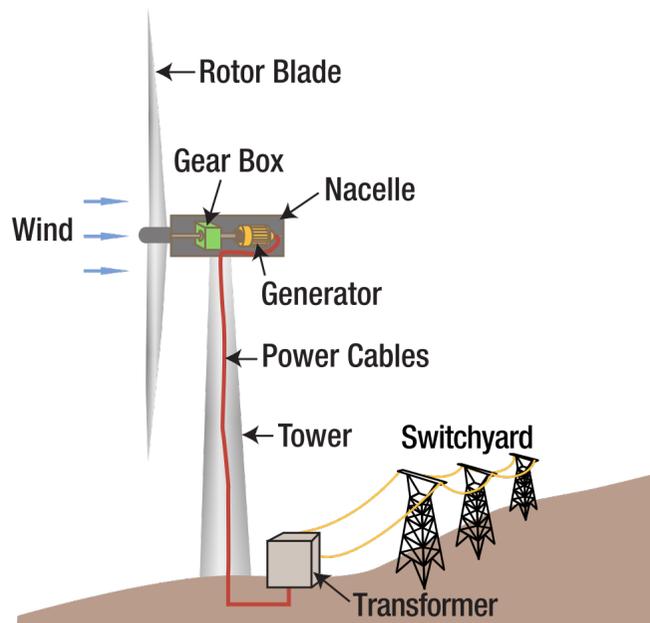


HOW DOES A WIND TURBINE WORK

Wind turbines follow a simple principle: The energy of the wind turns the blades around the rotor and generates electricity. We can compare it to the opposite of a fan. While the fan needs electricity to produce wind, the wind turbine uses the wind to produce electricity.

In a more detailed view, the rotor blades are connected to a main shaft and spin a generator, which then produces electricity. All this is installed at the nacelle on top of the tower of the wind turbine. Several wind turbines are connected to a transformer. There, the electrical energy gets transferred into the national electricity grid. From there, the electricity gets distributed to the consumers, for example your home.

Wind turbines have several advantages compared to traditional fossil fuel power plants. Wind is free and will not become exhausted over the time. This means energy production costs are not dependent on oil/gas prices and resource imports are not necessary. Furthermore, a wind turbine does not pollute the environment during operation. And not to forget, a wind farm does not need water and the land use is small, so farming beside the turbine is still possible.



Wind turbine diagram (Source: common.wikimedia.org)

BOUNDARY PILLARING KONIKABLO

Some weeks ago, the boundary demarcation work for the Konikablo Wind Farm has started with the aim of setting out the project perimeter in the field, so that it is clearly marked and visible.

As first step, the outer corners are marked with concrete pillars installed by local workers and issued with the corresponding project markings. This work started at the northern project site and is completed.

Before the work started, the Chief and Elders of the clans were consulted in order to ensure that the pillars are in line with the mutually agreed land boundaries. With this approach, it is ensured that the extent of the project area is well understood by all involved parties and stakeholders and that there is no disruption of activities once the Konikablo Wind Farm is being constructed. During this exercise, also local livelihood data is gathered on site, which will contribute to the Livelihood Restoration Plan.



Concrete pillars with project markings installed by local workers

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IN CLOSE CONTACT WITH THE COMMUNITIES



In the last months, several community engagement events around the Konikablo Wind Farm project area took place and even more will follow. As project developers, we are delighted about the participation and positive reactions. It is important for us to develop our projects in a social sustainable manner with all stakeholders engaged and involved. Therefore, the community events are an important part of our wind farm development.

Furthermore, the commissioning of the 3-unit classroom block of the Hearts of the Father Outreach Orphanage was an important part of our community and social benefit program and demonstrates that we are serious about our community investments. And much more to come in the future.

UPCOMING EVENTS

- > Preliminary geological survey at site
- > Detailed land survey
- > Community visits to present the project
- > Continuation of social benefit program

ORPHANAGE 3-UNIT CLASSROOM COMMISSIONED



On 7th of June 2019, a 3-unit classroom block of the Hearts of the Father Outreach Orphanage was commissioned by the District Chief Executive (DCE) of Ningo-Prampram, Hon. Jonathan Teye Doku. The construction of the building was initiated by the DCE in the year 2018 and sponsored by ENERCON GmbH and NEK Umwelttechnik AG, the developers of the Konikablo Wind Farm.

At an interaction with the management of the Hearts of the Father Outreach, the District Chief Executive, Honourable Jonathan Teye Doku, saw the need for a classroom block and initiated the construction of it. The 3-unit classroom block of the orphanage is intended for the youngest of the inmates. Lessons in the nursery and kindergarten levels will take place in this building. Up to now, these lessons took place in a multipurpose assembly hall. Sod-cutting for the new building was a year ago at the birthday of the DCE. This year's birthday was in the sign of the inauguration. This occasion brought Assembly Members, staff and management of the Assembly, businessmen, friends from the media and the general public together.



Orphanage commissioning on 07/06/2019

KONIKABLO COMMUNITY ENGAGEMENT EVENTS

On Monday, 24th June 2019, two community engagement events took place in relation to the development of our 200 MW Konikablo Wind Farm, one in Koni and a second one at Kablo.

More than 80 persons showed up in total to be informed on the progress of the project. The project developers, NEK Umwelttechnik AG and NEK (Ghana) Ltd., presented the current state, the benefits of the planned wind farm for the involved communities and local population and answered also questions coming from the attendees. A presentation of the project and a video about wind farms completed the event.



The involved communities are highly interested that this project will create local labour opportunities for skilled and less educated persons. Furthermore, the attendees of the event were asked for possible projects for our Community Engagement Plan, similar to the 3-unit classroom block of the Hearts of the Father Outreach (see article on the left), which was already financially supported by the project developers. It turned out that support for education and farming are the most prominent needs of the population.



NEK employees at community event in Kablo on 24/06/2019

GRID CONNECTION WORKSHOP

On 7th of May 2019, a workshop under the leadership of Upwind Konikablo Ltd. between GRIDCo, ENERCON and NEK took place in Accra. Technical aspects of how to integrate the planned 200 MW Konikablo Wind Farm into the existing grid of GRIDCo were discussed, among others.



Participants of the GRIDCo workshop on 07/05/2019

Constructive discussions between the participants about their outstanding experiences on the topic fell on fertile ground. This date marks an important milestone between the cooperation of GRIDCo, ENERCON and NEK.

On Wednesday, 8th May 2019, further details about the grid connection were clarified at GRIDCo's offices in Tema. The ENERCON delegation visited afterwards a nearby substation. Important insights were gained for the planned Konikablo Wind Farm.



DRONE SURVEY VIDEO

A video team accompanied our engineers at a drone survey for wind farms in the Greater Accra region.

The video can be found here:
<https://youtu.be/jEO-jGRGGNY>

Drone Survey Campaign for Wind Farms in Ghana

