

Project handling:

technical concept, materials selection, calculation of costs, acquisition of funds, search for project partners, procurement of appropriate technology; preferably purchased from partners in Germany, logistics and transport, installation, operation and maintenance.

Transport, logistics and installation:

For the materials shipping from Berlin –being the site of planning and procurement- to Oheze-Naka a framework was examined and a basic concept was developed.

Costs of the project:

First of all the supply of electric power via solar systems should be reduced to essentials such as light, ventilation and cooling systems. In terms of costs, the on site installation was taken to account as well as material costs (solar panels, modulators, accumulators).

Currently, we're expecting an overall cost of:

School: ca. 12.000€

Hospital: ca. 15.400€

Funding:

Mr. Omo-Omoruyi, participant of a course of further education -and UBB and VTP as well- have developed this project with great personal commitment. Unfortunately, we are unable to cover the entire cost. We are extremely happy about everybody who's willing to promote our enterprise, being a pilot scheme for the area of rural Nigeria. We invite companies, organizations, associations, groups and individuals to support our project.



If you require any further information, feel free to contact us, we would appreciate your immediate attention to this matter.

Umweltbüro für Berlin-Brandenburg e.V.

(ubb e.V.)

Ueckermünder Str.3

10439 Berlin

Tel. 030 4213700

winter@ubb.de, www.ubb.de

Project: small Roofs large effects



solare energy for Oheze-Naka (Nigeria)

„KleidGrow“

Site characterization:

Oheze-Naka is a small village and rural commune in the south of Nigeria, it has a population of about 1,000 people. It belongs to Orhionmwon, Local Government Area of Edo State, and is linked to the larger communities Benin City, Abudu and Agbor by roads. Being close to the Equator, the length of a day (sunrise to sunset) is almost constant during the year. Darkness falls almost instantly after sunset at 6 p.m..



Aims:

Installing two photovoltaic systems in Oheze-Naka, a village in the rural area of Nigeria, to provide energy to a school and a hospital.

Initiator:

BUILDING Engineer Mr. Omo-Omoruyi implemented this project to support his hometown. The idea came up when he took part in a course of further education,

dealing with issues of environment, nature and climate protection, funded by European Social Funds (ESF).

Supporters:

Umweltbüro Berlin-Brandenburg, registered organisation of public utility. Being the organizers of the course of further education in cooperation with VTP (registered organisation for technology and efficiency) these two facilities will support Mr. Omo-Omoruyi. Besides those Berlin-based partners, he is in need of the support of further organisations, who will help him REALIZE his humanitarian aims by providing know-how and donations of material and money.

Background:

There is no electrical power supply in the village of Oheze-Naka so far.

Schools:

Lessons have to be held during the day daytime, i.e. up to 6 p.m., most of the students are involved in harvesting during that time. Kerosene lamps are used in the evening hours. In such dire circumstances, 90 percent of the villagers are illiterates.

Hospitals:

Examinations and therapies have to be done during a lack of daylight or in the gloomy light of harmful kerosene lamps.

Children are born under precarious conditions of hygiene. The lack of electric energy makes the proper storage of pharmaceuticals, medical samples and laboratory equipment more difficult. Two decentral solar plants and storage batteries would ensure a continuous energy supply around the clock. This would open up new perspectives in the way both facilities could provide better access to basic medical care and education on a constant level. The staff would benefit from improved working conditions.

Character of the project:

These efforts pursue a humanitarian goal: construction and operation of the solar plants should serve the welfare of the villagers of Oheze-Naka. The plants are not for commercial use. The solar systems will be built with the participation of the local population, offering every conceivable form of further education and training to enable the villagers MAINTAIN the systems when they are installed.

The project's success could give an impetus for further development of the village based on renewable energy sources.