# **ENERGIZING EDUCATION PROGRAMME**

## Bayero University Kano

JULY 2019



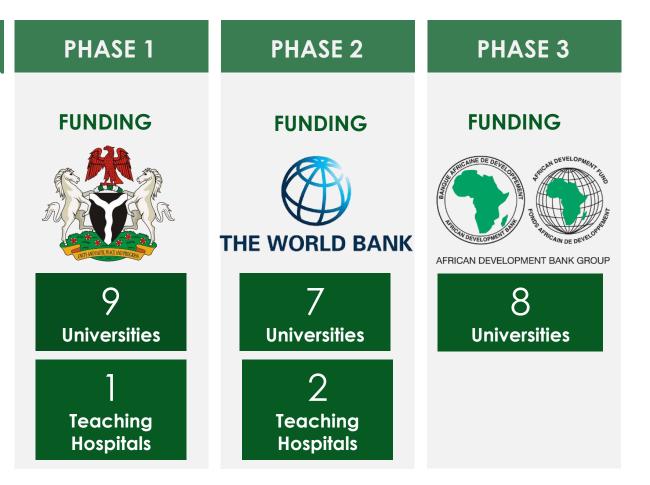
ENERGY # EMPOWERMENT # EFFICIENCY

#### **ENERGIZING EDUCATION PROGRAMME (EEP)**

This Federal Government of Nigeria initiative is developing off-grid, dedicated and independent power plants, as well as rehabilitating existing distribution infrastructure, to supply clean and reliable power to 37 federal universities and 7 affiliated university teaching hospitals. In addition, it will provide street lighting for illumination and safety, as well as a world class renewables training centre at each of the EEP beneficiary institutions. The programme is being implemented by the Rural Electrification Agency.

The project is being developed in phases – the first phase is currently under construction, which covers 9 universities and 1 affiliated teaching hospital. Under Phase 1, seven of nine universities will be powered with electricity from solar hybrid technologies, the other two universities will receive electricity from gas fired power plants. The first 180 female STEM students in Phase 1 have commenced their EEP internship.

This report focuses on the completed solar hybrid project at Bayero University Kano (BUK),



The second phase of EEP will be funded by the World Bank and covers 7 universities and 2 affiliated teaching hospital. The third phase will be funded by the African Development Bank (AFDB) and covers 8 universities.

#### **EEP IMPACT**



**589,444** students will have access to uninterrupted power supply



## 80,401

teaching and administration staff will have access to uninterrupted power supply



860 diesel fired generators will be decommissioned



## 1,435

doctors and **5,565** other medical professionals will have access to uninterrupted electricity supply at work



**10,451** street lights will be installed across all the campuses



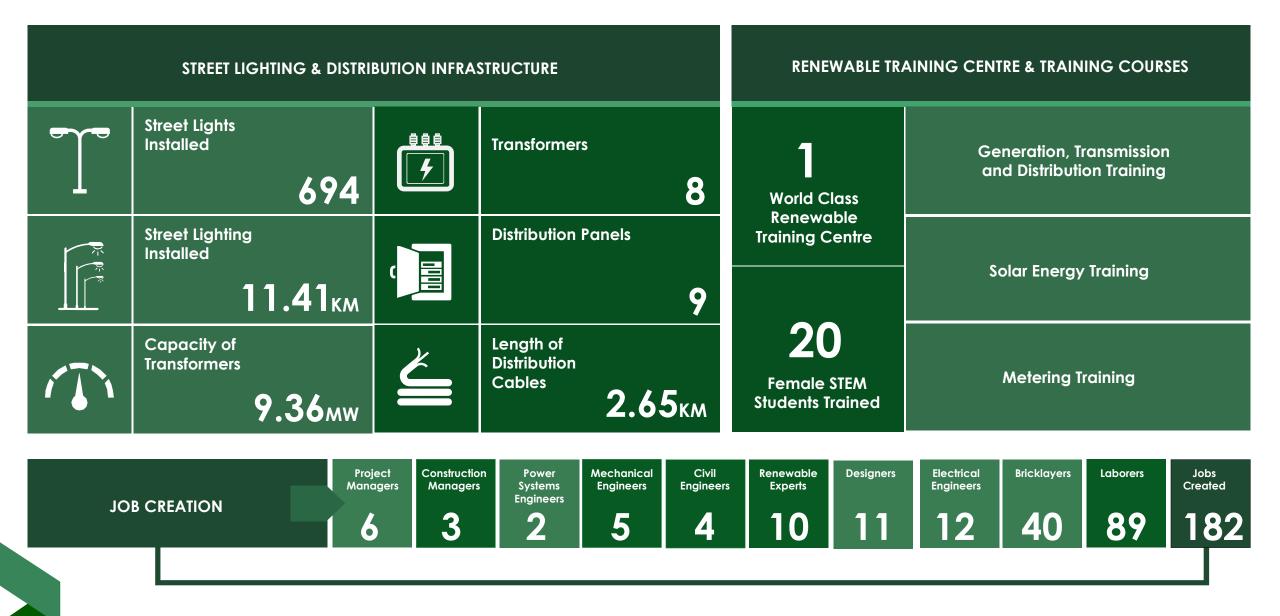
## 700+

female students will be trained through on-the-job training

Bayero University Kano (BUK), Kano State | **The largest off grid solar hybrid power project in Africa CONTRACTOR:** METKA

POPULATION & BUILDINGS			EXISTING GENERATORS & CARBON DIOXIDE CO <sup>2</sup> SAVINGS	SOLAR INFRASTRUCTURE	
	Students <b>55,815</b>			Total Capacity of Battery Storage <b>8.1</b> MWh	Total Capacity of Backup Generators <b>2.4</b> MW
P	Staff	3,077	Capacity of Petrol and Diesel Generators (to be removed when EEP is fully operational) <b>16.5</b> MW	Solar Panels Installed	Total Capacity of Solar Panels <b>3.5</b> MWp
Academic Buildings <b>277</b>		Hostels <b>29</b>		Total Installed Capacity of Solar Hybrid Power Plant	
Staff Accommodation <b>478</b>		Commercial Buildings <b>120</b>	Annual Carbon Dioxide CO <sup>2</sup> Savings <b>108,875,120</b> Ibs	<b>7.1MW</b>	

Bayero University Kano (BUK), Kano State | **The largest off grid solar hybrid power project in Africa CONTRACTOR:** METKA



# Bayero University Kano (BUK), Kano State **CONTRACTOR:** METKA

### **SOLAR HYBRID PLANT**





### Bayero University Kano (BUK) Kano State CONTRACTOR: METKA















### Bayero University Kano (BUK) Kano State CONTRACTOR: METKA















## **RURAL ELECTRIFICATION AGENCY**

 $\mathsf{ENERGY} = \mathsf{EMPOWERMENT} = \mathsf{EFFICIENCY}$ 

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