

ENERGIZING EDUCATION PROGRAMME

Alex Ekwueme Federal University, Ndufu Alike-Ikwo (FUNAI)

JULY 2019

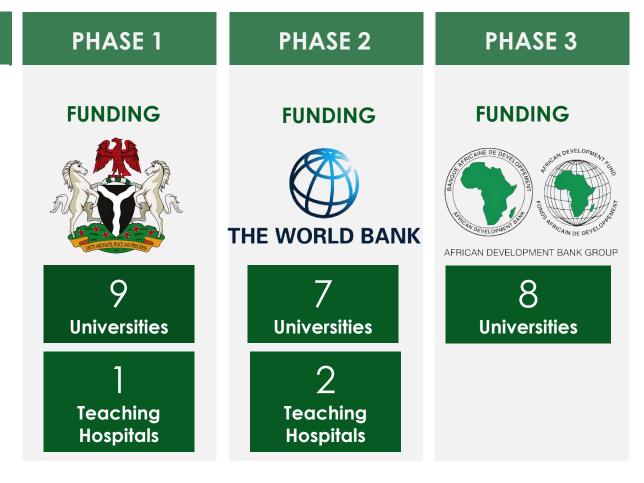


ENERGIZING EDUCATION PROGRAMME (EEP)

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 Alex Ekwueme Federal University, Ndufu Alike-Ikwo (FUNAI).



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.

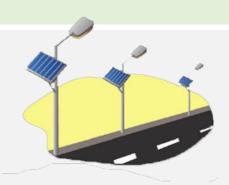
EEP IMPACT



589,444 students will have access to uninterrupted power supply



860diesel fired generators will be decommissioned



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



80,401teaching and administration staff will have access to uninterrupted power supply



1,435
doctors and 5,565 other medical professionals will have access to uninterrupted electricity supply at work

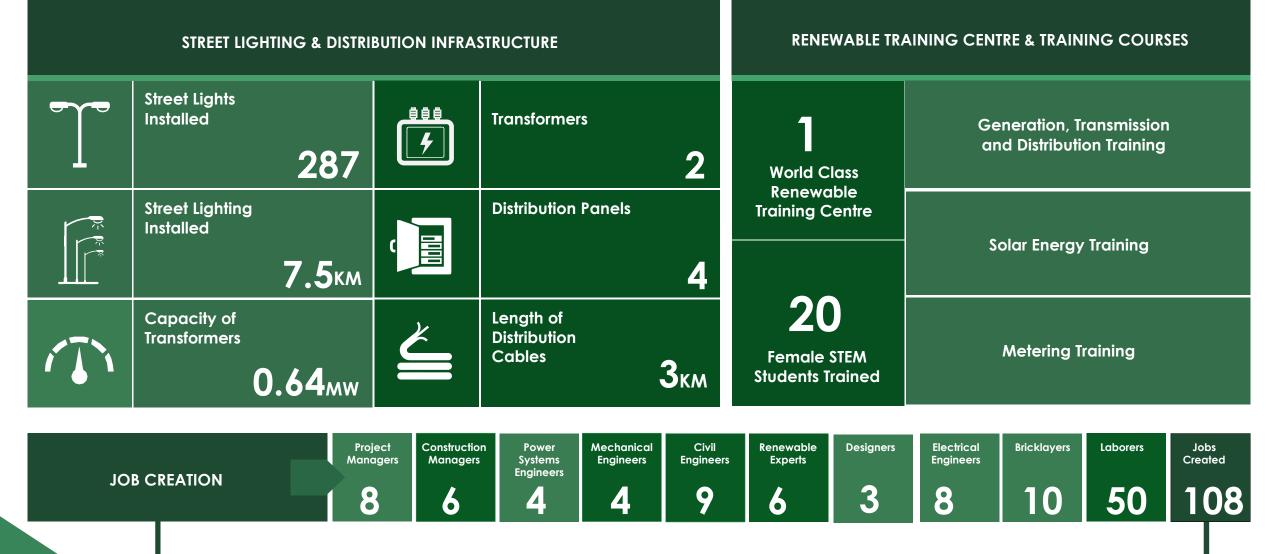


700+female students will be trained through on-the-job training

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POPULATION & BUILDINGS		EXISTING GENERATORS & CARBON DIOXIDE CO ² SAVINGS	SOLAR INFRASTRUCTURE	
	Students 7,700		Total Capacity of Battery Storage 8.4 MWh	Total Capacity of Backup Generators 1.0 MW
	Staff 1,819	Capacity of Petrol and Diesel Generators (to be removed when EEP is fully operational) 1.54 MW	Solar Panels Installed 3,500	Total Capacity of Solar Panels 1.155 MWp
Hostels 2 Academic Buildings 68		CO2 Annual Carbon Dioxide CO ² Savings 8,139,208lbs	Total Installed Capacity of Solar Hybrid Power Plant	
			2.8MW	

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SOLAR HYBRID PLANT













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STREET LIGHTING













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STEM STUDENTS

















RURAL ELECTRIFICATION AGENCY

ENERGY = EMPOWERMENT = EFFICIENCY

Website: www.rea.gov.ng Email: info@rea.gov.ng







