



Sustainable Energy for the Health Sector across Kaduna State

Schneider Electric and EM-ONE collaborated to provide clean energy solutions for 34 Primary Health Clinics across 19 Local Government Areas in Kaduna State.

Kaduna state, Northern Nigeria
A partnership with EM-ONE Energy Solutions

schneider-electric.com.ng

Life Is On

Schneider
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Kaduna is a state in northern Nigeria and home to over 6 million people. It also has a booming economy offering a vibrant lifestyle. With all these activities happening, EM-ONE saw the need to improve the health centre conditions for its rural residents to enable the state to continue to grow. The project was funded by UK's Department for International Development (DFID) through the Solar Nigeria Programme, with the objective to improve access to clean, affordable energy to poor communities through electrification of public health and education facilities.

Energizing Primary Health Care Centres

EM-ONE undertook the site survey, engineering and design for 40 off-grid sites, as well as the project management for the construction and installation of the 34 sites from August 2016 to May 2017. The systems were deployed in 19 Local Government Areas (LGAs) including Chikun, Giwa, Igabi, Ikara, Jaba, Jemaa, Kachia, Kaduna North, Kaduna South, Kagarko, Kajuru, Kaura, Kauru, Kubau, Kudan, Lere, Makarfi, Sabon Garo, Soba, Zangon Kataf and Zaria.

Customer Overview

EM-ONE has been providing innovative and sustainable power solutions to the energy sector in Africa for over 20 years.

Utilizing its years of design expertise, industry knowledge and partnerships with leading technology providers, EM-ONE makes lasting social impacts on underserved communities and emerging markets through the energy sector.

Website: www.emone.ca

EM-ONE
ENERGY SOLUTIONS





“ The Kaduna Clinics project was an impactful health intervention for communities across the state. We chose Schneider Electric’s storage solution based on its modularity, scalability and the strong support from Schneider Electric Nigeria in maintaining the equipment. ”

- Mir Islam, CEO, EM-ONE

Solution: a DC-Coupled system

The solution was a DC-Coupled system that was composed of the following equipment:

- Schneider Electric Conext XW+ Inverters
- Schneider Electric Conext MPPT 80 600 Charge Controllers
- Solar Modules rated at 260Wp each
- Hoppecke 2V Deep Cycled Batteries
- Schneider Electric Conext System Control Panel and
- Schneider Electric Conext Battery Monitor

Improving care & lives

The off-grid solar systems in rural Kaduna improved the living standards of its residents. It has impacted the state of Kaduna by

- Providing a total of 1.6 megawatts of off-grid power across the 34 systems built
- Benefiting over 250,000 people who have received direct services from the clinics
- Reducing over 25 tonnes of CO₂ emissions

These testimonials shed light on the positive impact this project made on the multiple communities:

“Having access to a renewable energy source allowed the Primary Health Centres (PHCs) to increase their hours of operations into the nighttime and improve service delivery. This was especially important for remote areas that previously had no electricity”.

Adamu Abdulahi, Project Manager, EM-ONE

“The Kaduna PV systems are working well on ground and have met both design and manufacturing expectations. The PHCs now have electricity to carry out the work with properly sterilized equipment”.

Usman Isa, Project Engineer, EM-ONE

