

Co-creating business with partners to achieve SDGs in Africa

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UNIDO and NEC signed MOU on ICT solution for inclusive and sustainable industrial development (August 2019, TICAD7)



- ✓ Co-creation and global development of projects utilizing advanced ICT to further promote inclusive and sustainable industrial development—the mission of UNIDO—in developing countries and economies in transition.



- Mr. LI Yong /Director General of UNIDO, Mr. Kuniyoshi /Deputy Director General,
- Norihiko Ishiguro/Senior Executive Vice President of NEC, Toshiya Matsuki /Vice President of NEC

NEC Hybrid Storage Solution is UNIDO ITPO Tokyo's STePP registered.

UNIDO ITPO Tokyo's

STePP

Sustainable Technology Promotion Platform

http://www.unido.or.jp/en/technology_db/8602/

Aviation

Satellite

Submarine cable system

Manufacturing

Firefighting

Healthcare

Broadcasting

Energy

Financial

Education

Logistics

Transportation

Retail

Telecom

Government

From the ocean floor to outer space

Providing extensive value to customers in a wide range of fields, all across the world

NEC Corporation

Around **117,000** employees worldwide

About **USD 27.4 Billion** net sales

289 consolidated subsidiaries

Headquarters: **Tokyo, Japan**

123 years of brand success

World's Top 100 **Most Innovative Organizations**

Fortune Global 500 company



Chairman of the Board
Takashi Niino



President & CEO
Takayuki Morita

日本電気株式会社

* Data as of March 31, 2022

NEC in Africa

1st Business 1963
in Ethiopia

Supplied in 53 Countries



- South Africa
- Nigeria
- Kenya

NEC XON Pty Ltd;
Main hub for Sub-Saharan countries
(Johannesburg, SA)

■ Past



Landline Exchange



Satellite
Communication



Radio-TV Transmitter

■ Currently

Telecom



Infra for Mobile

Public Safety



Face Recognition

Smart Energy



Renewable Energy



Submarine
Cable



Finger Recognition

Problem



Resource: Polarium

NEC Hybrid Storage Solution (HSS)

NEC HSS® Hybrid Storage Solution, developed by NEC Corporation and NEC XON, is a flexible, configurable and fully integrated turnkey solution with modular and scalable design that can be rapidly deployed to enable Telecommunications Operators and Tower Companies to reduce costs and increase plant efficiency.

Optimizing energy supply by saving more than **50%** of diesel generator fuel with NEC HSS



NEC Hybrid Energy Battery Storage





Environment

Environmentally friendly energy supply

Hybrid Storage Solution | Enhanced off grid reliability with IOT intelligence

HSS system with Solar PV, Li-ion Battery and remote monitoring service enables stable, cost effective and green operation



- ✓ IOT monitoring
- ✓ Remotely configurable
- ✓ UNIDO registered

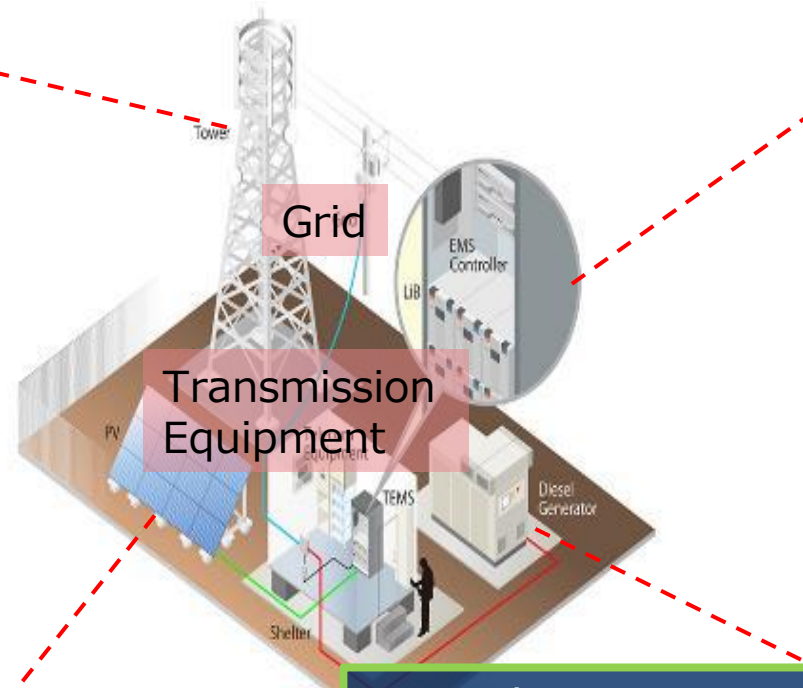


Smart Energy

Renewable Energy Storage System for Base Station of Telecom Operator (30-40% Reduce OPEX)



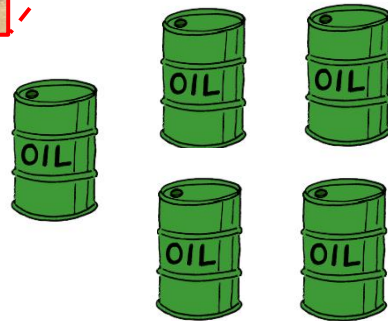
Tower



PV



Fuel Saving



Diesel Generator



Power System



Before

Africa Mobile Network Operator Base Tower Station



40 Liters



Diesel Generator



After

Africa Mobile Network Operator Base Tower Station



40 Liters



5.4 hours

18.4 Liters



Market Opportunities

NEC is looking for Partners for African business activities.

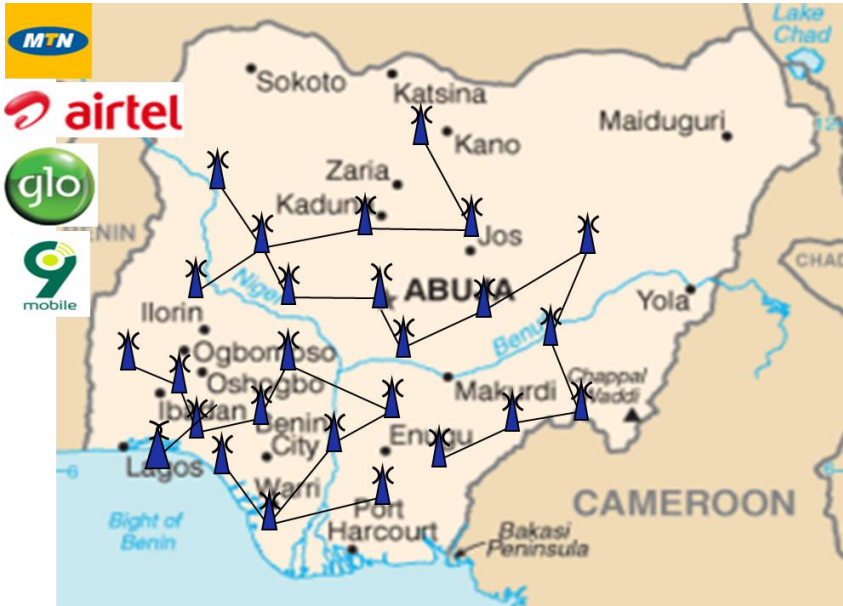
- Partners for sustainable commercial business.
 - Business funding support from EU funds, Government Aid and Grants, export credit agencies, etc.
 - Hedging the credit, country and currency risks of African businesses with EU corporate partners.
- Priority country
- West Africa (Côte d'Ivoire, Senegal, Nigeria)
 - East Africa (Kenya, Rwanda, Uganda)



Nigeria's Digital Infrastructure

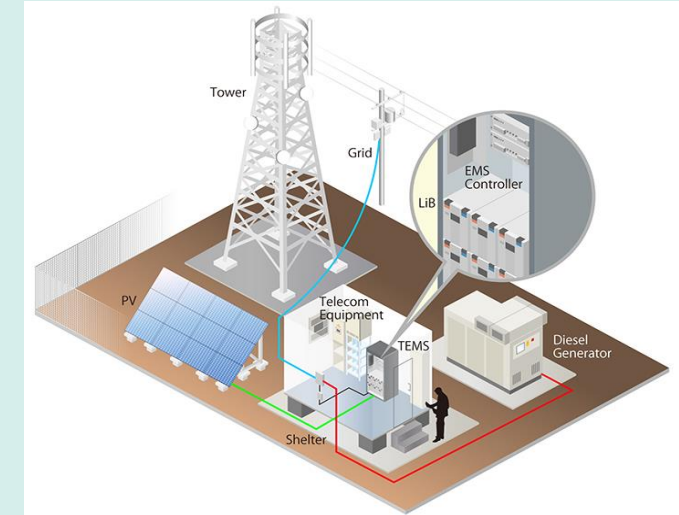


Environment Communication



<Project Outline>

- ✓ Over 1500 tower sites
- ✓ Since 2018
- ✓ Operation & Maintenance
- ✓ Supply hybrid energy system
- ✓ Centralized remote site monitoring
- ✓ Fuel haulage



- ✓ Communication network 24/7 available
- ✓ NEC contributes to **provision of stable voice, data and digital services for Digital Economy**



- ✓ Clean and sustainable energy source
- ✓ Less Diesel consumption, Less CO2 emission

NEC Contact (Tokyo)

Orchestrating a brighter world **NEC**


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