

Wärtsilä in Nigeria

Global company, local presence

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A global team of experts fuelling change since 1834



53%

service sales
of total



6,449

net sales, MEUR



18,300

people



230

locations



128

nationalities



77

countries



Figures from 2024

Wärtsilä Energy

Driving Forward
Africa's Energy Transition



1975

Wärtsilä Energy starts
its operations in
Africa

46

African
countries
delivered to

4

Main hubs in South
Africa, Senegal,
Nigeria, Kenya

7.6GW

Power plant
capacity delivered

650+

Employees across
Africa

450

Employees located
in customers'
premises

110

FS employees – ready to
be wherever and
whenever required

42%

Operational plants
under service
agreements

Decarbonising the energy industry with renewables and balancing power

Curtailment of renewable energy caused by system inflexibility
+
Decrease running hours of inflexible power plants.

1
Add renewables

Continue adding renewables supported by flexibility.

2
Add balancing engine power plants and energy storage

Utilise Power-to-X and flexible balancing engine power plants to provide carbon-neutral long-term storage.

3
Phase out inflexible power plants

4
Convert remaining power plants

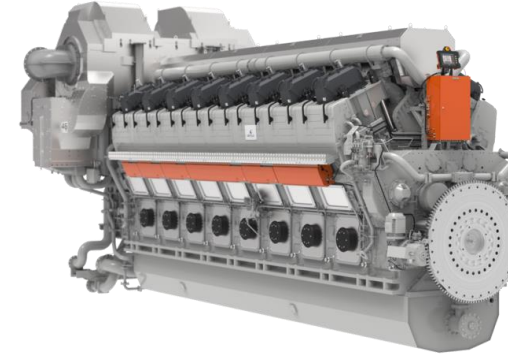
5
A 100% renewable energy future is here

It is based on renewables, energy storage, and balancing engine power plants that run on sustainable fuels

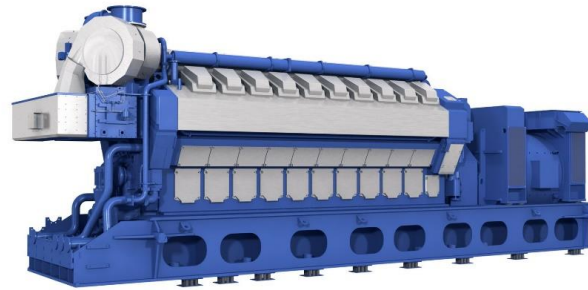
Our engine portfolio for various applications and industries



Wärtsilä 31 portfolio
*Most Efficient medium
speed Gas or DF engine*
9.4 - 11.8 MW platform



Wärtsilä 46TS portfolio
Latest product in portfolio
*Largest & most efficient
medium speed Gas or DF Engine*
20.8 MW platform



Wärtsilä 34 portfolio
historical medium speed
Gas or DF engine
5.8 - 9.8 MW platform



Wärtsilä 32 portfolio
historical medium speed
iquid Fuel engine
5.8 - 9.8 MW platform



Wärtsilä 50 portfolio
historical medium speed
Gas, Dual Fuel or Liquid
Fuel engine
18 MW platform

First power plants delivered to Nigeria in 1970s

Operating in Nigeria since 2008

Serving 800 MW of Power Plants and 500 MW of Marine installations

134 FTEs employees

- **Head Office :** 23 Oba Akinjobi Street GRA, Ikeja, Lagos (>30 employees)
- **O&M site :** Cross River State, Calabar (>35 employees)
- **O&M Site :** Ogun State, Ewekoro (>30 employees)
- **O&M Site:** Kogi State, Mopa (>30 employees)



Our team of FS professionals (+20) carry out all maintenance work in situ or onboard, such as:

- Major overhaul and Maintenance work for Diesel, Gas and Dual fuel Engines.
- Engine component machining
- Troubleshooting
- Technical advisory.
- Performance audits of plant and equipment.
- Field Servicing of Propulsion equipment.
- Electrical & Automation upgrades.

Customers

BUA Cement – Sokoto Plant

Sokoto, Nigeria

120.0 MW - 12xW20V34DF

Lafarge Cement – Ewekoro Plant

Ewekoro, Nigeria

99.7 MW - 6xW18V50DF

Lafarge Cement – Mfamosing Plant

Mfamosing, Nigeria

98.3 MW - 6xW18V50DF

Paras Energy

Ogijo, Nigeria

70.0 MW - 7xW20V34SG

African Foundries

Lagos, Nigeria

64.1 MW - 7xW20V34SG

Wempco

Lagos, Nigeria

51.6 MW - 6xW20V34SG

Oshogbo Steel Co.

Oshogbo, Nigeria

41.6 MW - 4x18TM410 + 12SW280

Customers-contd

BUA Cement – OBU Cement Plant

Edo State, Nigeria

70.0 MW – 7 x W20V34DF

Mangal Cement – Mopa Plant

Kogi State, Nigeria

50.0 MW - 5x20V34DF

VIPL- Victoria Island

Lagos, Nigeria

30.0 MW - 3xW20V34SG

Nestle Plc- Agbara

Ogun Sate, Nigeria

13.1 MW - 3xW9L34DF

NNPC Towers-Abuja

FCT, Nigeria

17.1 MW - 4xW9L34DF

Flour Mills of Nigeria-Apapa

Lagos, Nigeria

14.4 MW - 2xW9L34DF + 1 x W12V34DF

Pulkit Steel-Ikorodu.

Lagos, Nigeria

20.0 MW – 2xW20V34SG

Tempo Foods and Packaging-Ota

Ogun State, Nigeria

5.3MW – 1xW18V32DF

Key references in Nigeria

Lafarge, Ewekoro



- Customer: LafargeHolcim
- Configuration: 6 x W50DF multi-fuel plant
- Total output: ~100 MW
- Fuel: Natural gas / HFO
- Scope: EPC and O&M
- Delivery: 2010

Unicem, Calabar



- Customer: LafargeHolcim
- Configuration: 6 x W50DF multi-fuel plant
- Total output: ~100 MW
- Fuel: Natural gas / HFO
- Scope: EPC and O&M
- Delivery: 2013

Mangal Cement Kogi



- Customer: Mangal Cement
- Configuration: 5 x W34DF dual-fuel plant
- Total output: ~50MW
- Fuel: LPFO (to switch to gas in 2 years)
- Scope: 10-year O&M Agreement
- Delivery: 2024

BUA Cement, Sokoto



- Customer: BUA International Ltd
- Configuration: 5 x W34DF multi-fuel plant
- Total output: ~120 MW
- Fuel: Gas / HFO
- Scope: EEQ
- Delivery: 2021/2023

BUA Obu, Edo State



- Customer: BUA International Ltd
- Configuration: 7 x W34DF multi-fuel plant
- Total output: ~70 MW
- Fuel: Natural gas / HFO
- Scope: EEQ
- Delivery: 2023



Victoria Island Power Limited (“VIPL”) is a project company sponsored by Elektron Energy Development Strategies Limited and ARM Harith Infrastructure Fund.

VIPL owns a 30MW gas-fired independent power plant (IPP) under construction, designed to supply power to leading corporates in the country’s foremost commercial district.

Location

Address: NEPA Close, Off Ahmadu Bello Way, Victoria Island

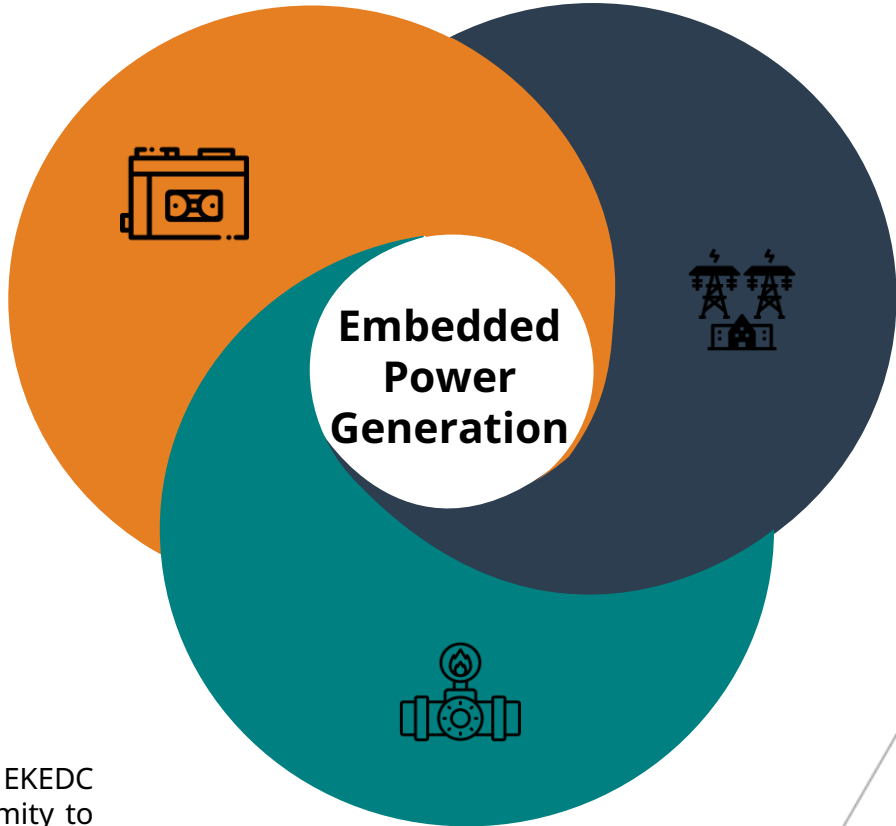
Terms of Ownership: Under a Fifteen (15) year lease from EKEDC with an option to renew for another seven (7) years

Generation

Procurement and Installation of three (3) x 10 MW Wartsila 20V34SG Natural Gas Generators and related auxiliaries, to deliver a gross electrical power output of 29.34 MWe.

Summary

- ✓ All licenses, permits and approvals procured.
- ✓ Power will be generated using natural gas & distributed to EKEDC as a customer on one hand, and other off-takers in proximity to the Project Site on a Willing Buyer, Willing Seller engagement.



Key Operating Assumptions

Name plate capacity (ISO rated)	31.25 MW
Capacity at our ambient condition	29.70 MW
Average load demand	90%
Useful life	25 years

Distribution

Upgrading of EKEDC’s Substation, Procurement and Installation of Transformation Equipment, Feeder Panels, and Distribution of electric power using existing and new distribution cables along the existing Right of Way.

Installation of Ring Main Units (RMU) and meters at each customer location.

FEEDSTOCK

Natural gas will be supplied to the Project via a 12-inch X 2.4 kilometre lateral and 6-inch X 200 metre spur pipeline connected to a Pressure Reduction Metering Station (PRMS) at the Project Site.

Gas molecules will be supplied by Gaslink Nigeria Limited and NNPC Gas Marketing Limited.

The VIPL Project Has Attracted The Most Reputable Partners Operating In Nigeria Today

Capital Providers



Commercial Offtakers & Counterparties



Legal & Professional Advisers



Technical Partners



Regulatory Agencies



2. Catalyst For Local Enterprise And Job Creation

1. Reliable Power For Lagos
Commercial Hub

3. Economic Growth, Enhances
Energy Security And Business
Stability

6. Cleaner Environment: CO2
Reduction

4. Replicable Model: A Scalable
Blueprint Across Nigeria

5. Improved Energy Resilience And
Reduced Grid Pressure





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