



**SDEM
ERECTORS
NIGERIA**



POWER SECTOR

PROFILE





ABOUT US



**SDEM
ERECTORS
NIGERIA**

SDEM Erectors Nigeria Limited (SDEM) is an energy, industrial and infrastructure construction company specializing in electro-mechanical services, civil and structural construction, steel fabrication, steel structures and industrial equipment erection, operations and maintenance of industrial and energy plants.

ABOUT US

SDEM ERECTORS NIGERIA LIMITED



- **1981:** SDEM was founded in Nigeria as the installation arm of the GEC- Alstom Group of France.
- **2004:** 90% of SDEM was acquired by a Nigerian group with the French retaining only 10%.
- **2011:** SDEM became management owned through an MBO supported by investor group.
- **Key sectors:** Power, Oil and Gas, and Industrial & Public Infrastructure.
- **Core competence:** Structural Steel Fabrication & Erection, Power Plant, Mechanical & BOP Erection; Piping Network & Spools Fabrication & Installation

OUR SERVICES

We are an energy, industrial, and infrastructure construction company.



ELECTRO-MECHANICAL SERVICES



ERECTION SERVICES



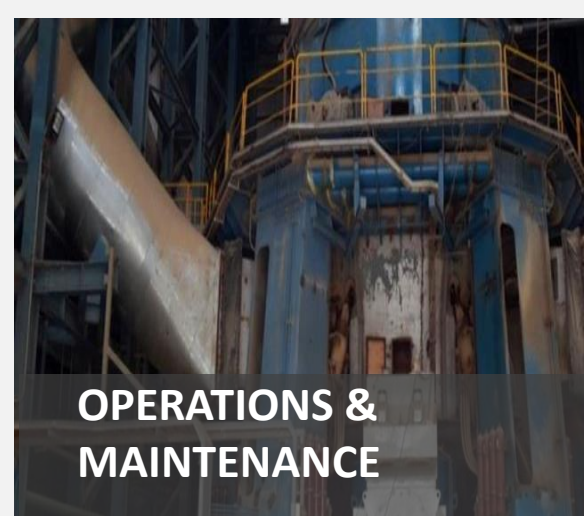
CIVIL & STRUCTURAL SERVICES



PIPING SERVICES



FABRICATION SERVICES



OPERATIONS & MAINTENANCE

Our Achievements & Numbers

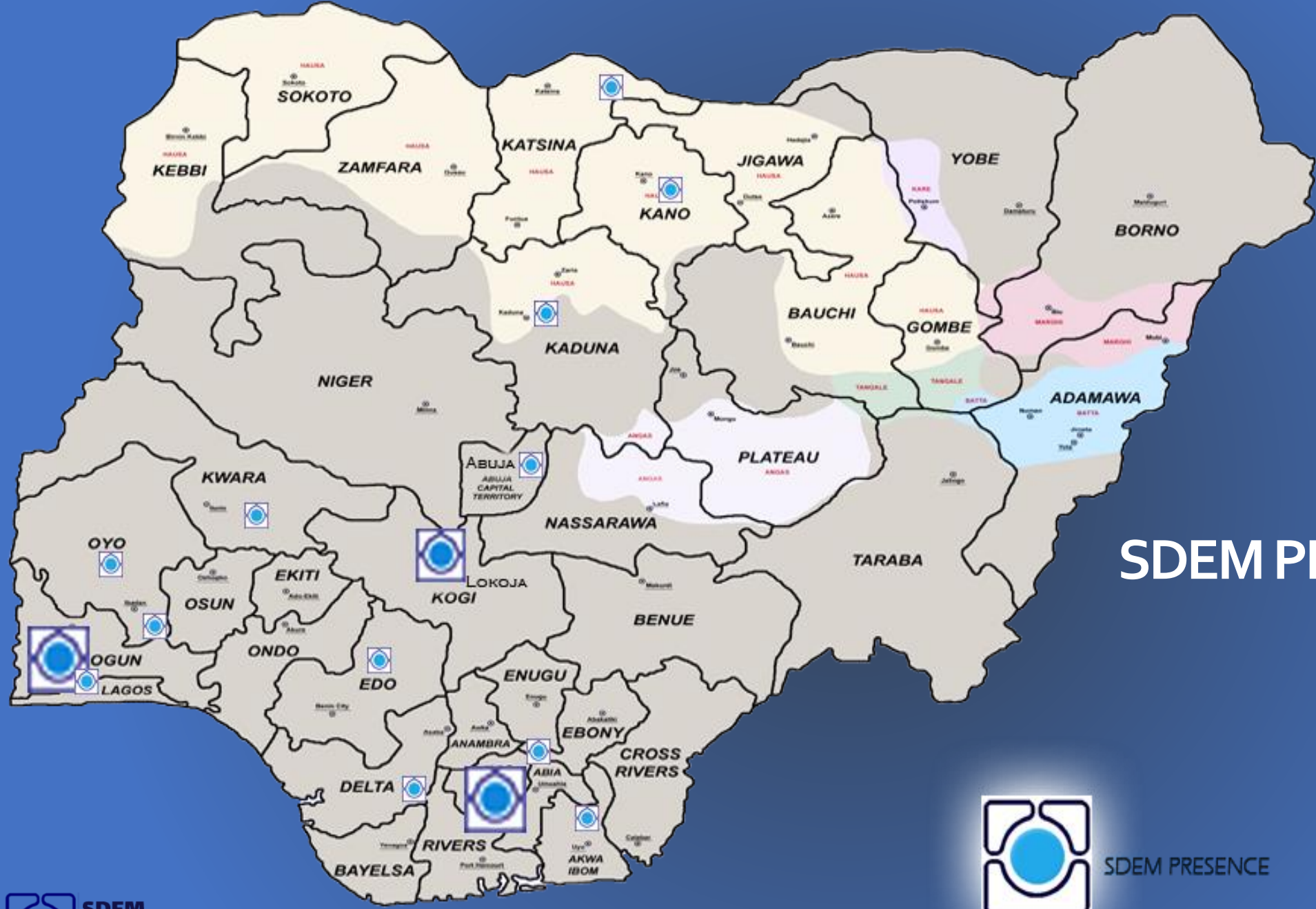


COMPLETED
PROJECTS
500+
DELIVERED

HUMAN
RESOURCES
300+
QUALIFIED
MANPOWER

PROFESSIONALISM
45
YEARS OF
EXPERIENCE

WORK
COVERAGE
36
STATES IN
NIGERIA



SDEM PRESENCE IN NIGERIA



SDEM PRESENCE

OFFICES



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Port Harcourt

Fabrication Yard

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Port Harcourt,
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Nigeria

Tel: +234 84463863, +234 463686

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POWER SECTOR

- SDEM Erectors has over 30 years of construction experience in the fields of hydroelectric and thermal power generation and distribution projects.



- SDEM has worked as main subcontractor to major power OEM's and EPC contractors for delivery of hydro power projects and open cycle thermal power generation plants ranging from 100 – 1,200MW range
- In partnership with OEM's SDEM now offers turnkey EPC of small off grid power plants between 5 – 100MW to industrial clients and public utilities.

SERVICES

POWER SECTOR



- BOP/Piping fabrication and erection.
- Commissioning support services to OEM.
- Structural Steel and cladding erection works.
- Rehabilitation and overhaul of existing plants with OEM support.
- Installation of Mechanical, Electrical, Control & Instrumentation works.

POWER PLANT REFERENCES

HYDROELECTRIC, AND
THERMAL POWER
GENERATION AND
DISTRIBUTION PROJECTS

GEREGU (PHASE I) – 414 MW POWER PLANT (3 X GAS TURBINE) MAINTENANCE

2005 -2008



414MW GEREGU POWER PLANT MAINTENANCE

(COMMENCED JULY, 2023 - ONGOING)

SCOPE

1. SDEM engaged to provide Local Resources & Logistics.
2. SDEM carry out pre-checks and assessment activities (physical examination with Non-destructive test).
3. Offloading, Stacking, Mechanical & Electrical removal and Installation of GTG and BoP.
4. Commissioning Supports.





414MW GEREGU POWER PLANT MAINTENANCE

(COMMENCED JULY, 2023 - ONGOING)

SCOPE

1. Insulation removal).
2. Generator dismantling
3. Intermediate shaft checks
4. Cleaning and seals replacement.



414MW GEREGU POWER PLANT MAINTENANCE

JULY, 2023 - ONGOING

Turbine top cover removal
and assessment.



34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION.

2021 - 2022





34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

(2021 - 2022)

SCOPE

1. BoP Equipment placement.
2. Electrical, Mechanical), Steel Works & BoP Piping.
3. Erection of LM2500 Loose Members, MV/LV & Signal Cables.
4. Fabrication and Installation of steel gantries for BoP routing and Cable Race way.
5. Commissioning Supports.





34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

(2021 - 2022)

SCOPE

1. BoP Equipment placement.
2. Electrical, Mechanical), Steel Works & BoP Piping.
3. Erection of LM2500 Loose Members, MV/LV & Signal Cables.
4. Fabrication and Installation of steel gantries for BoP routing and Cable Race way.
5. Commissioning Supports.



34MW-LM2500 NOTORE CHEMICAL INDUSTRIES POWER PLANT EXTENSION

(2021 - 2022)

Mechanical Erection of
2 Nos LM2500 and BoP
Piping / Equipment.



BUA CEMENT POWER PLANT PROJECT, UKPELLA, EDO STATE.



28MW-SGT700 BUA-OBU POWER PLANT EXTENSION

(2017 - 2019)

SCOPE

1. BoP Equipment Sizing /Design.
2. Electrical, Mechanical, Steel Works & BoP Piping.
3. Erection of SGT700 Loose Members, MV/LV & Signal Cables.
4. Fabrication and Installation of about 240tons of steel gantries for BoP routing and Cable Race way.
5. Commissioning Supports.





BUA CEMENT 3×5 GT500 POWER PLANT PROJECT, UKPELLA, EDO STATE (LINE I)

2014 – 2015

SCOPE

1. Installation, erection and commissioning of 3×5 GT500; Balance of Plant (BOP) for 3×5 GT500.
2. Installation of Mechanical Equipment, Electrical Works & BoP Piping Works.



500MV (NIPP) POWER PLANT FOR NDPHC MARUBENI CALABAR

2017 - 2018





535MW LOT 1 CALABAR POWER PLANT

2017 – 2018

SCOPE

1. Equipment shelter cladding works (2017 - 2019)
 - Total Surface Area: 3752m²
 - Total Weight of Steel Works: 90tons



500MV (NIPP) POWER PLANT FOR NDPHC MARUBENI CALABAR

2017 – 2018

SCOPE

Procurement, fabrication, installation, cladding and erection of 500MV Power plant.



GEREGU (PHASE II) – 434 MW POWER PLANT (3 X GAS TURBINE)

2011 - 2013





GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

SCOPE

1. Turbine/ Generator Positioning.
2. Generator/ Alternator Coupling.





GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

- 3. Diffuser Shell assembly.
- 4. Combustion Chamber Installation.



GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011-2013

- 5. Exhaust Stack Erection.
- 6. Erection of Air Intake .



GEREGU (434MW) GAS TURBINE POWER PLANT contd.

2011 - 2013

SCOPE

- 7. BOP Installation (Gas Skid)
- 8. Piping (32" Gas Pipeline)





GEREGU (434MW) GAS TURBINE POWER PLANT contd.



9. BOP Installation (Cooling Water System).

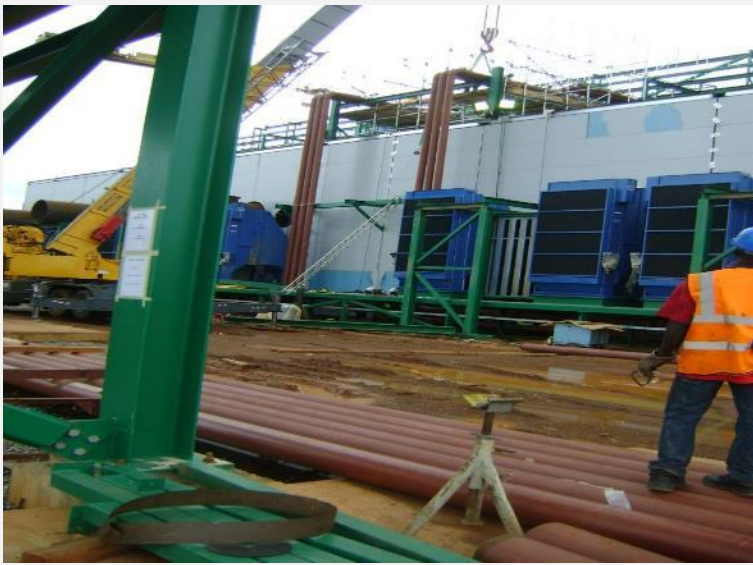
10. Tank Fabrication & Erection.



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE

2010 - 2011



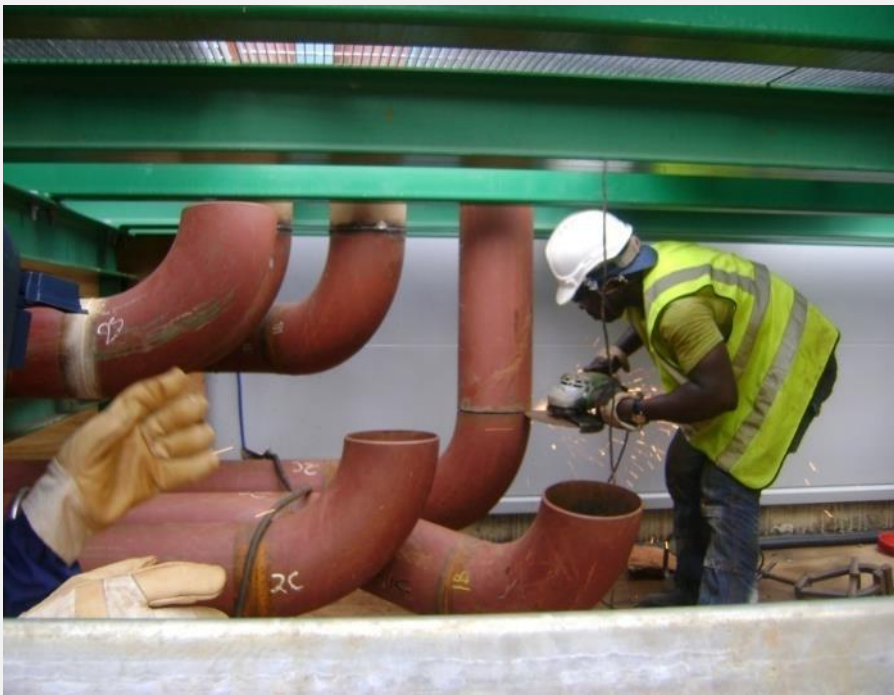


EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE. Contd.

2010 - 2011

SCOPE

1. Lafarge Ewekoro
W18V50DF (100MW)



EWEKORO 110 MW GT POWER PLANT PROJECT AT WAPCO CEMENT, OGUN STATE. Contd.

2010 - 2011

SCOPE

1. W18V50DF Power Plant
Radiator Cooling Water
System



GEREGU (PHASE I) – 414 MW POWER PLANT (3 X GAS TURBINE)

2005 -2008



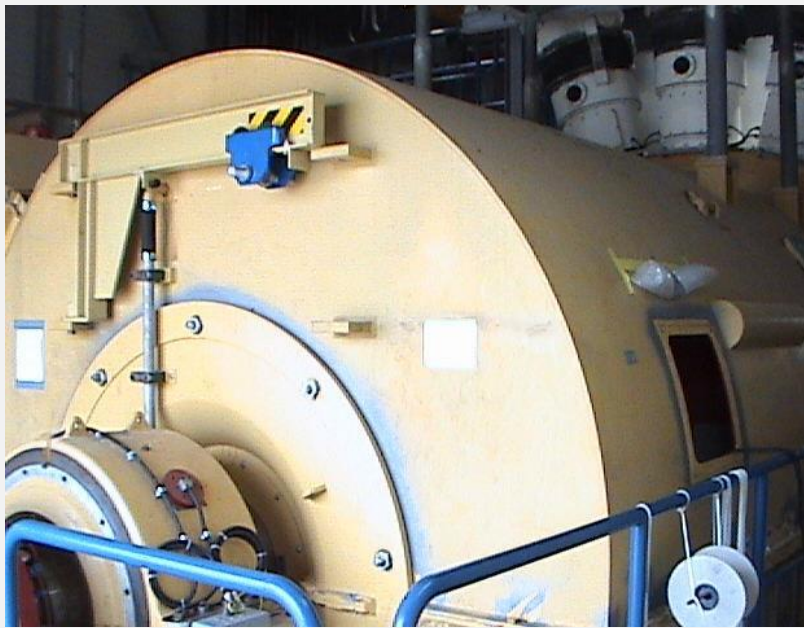


GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

SCOPE

1. Generator & Turbine Base Checks.

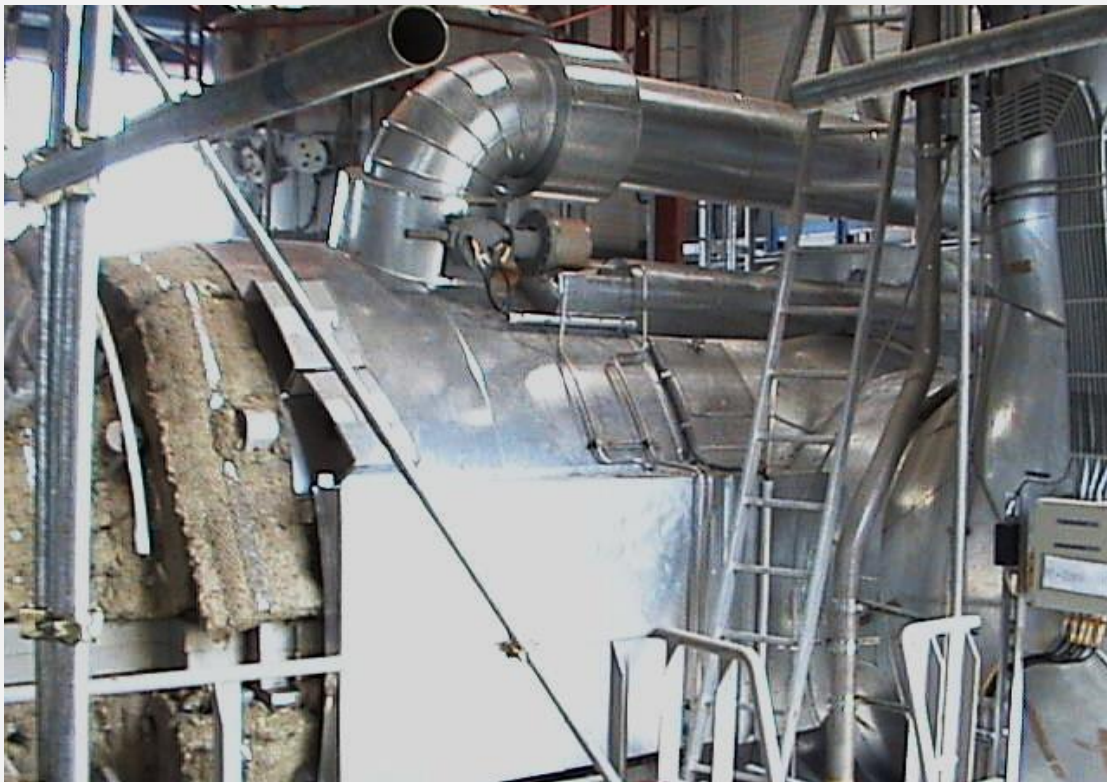


GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

2. Erection of Generator & Turbine

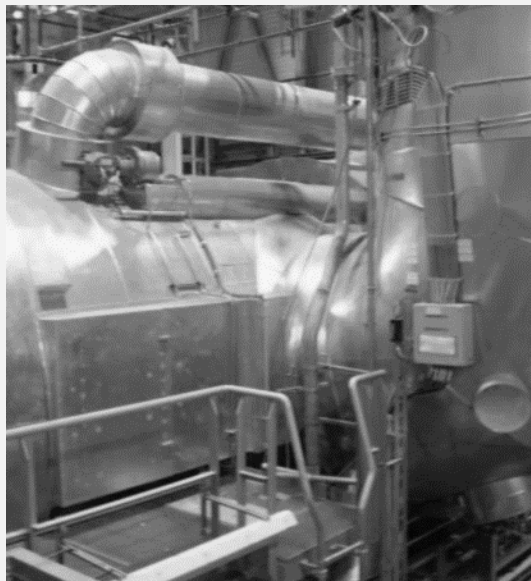


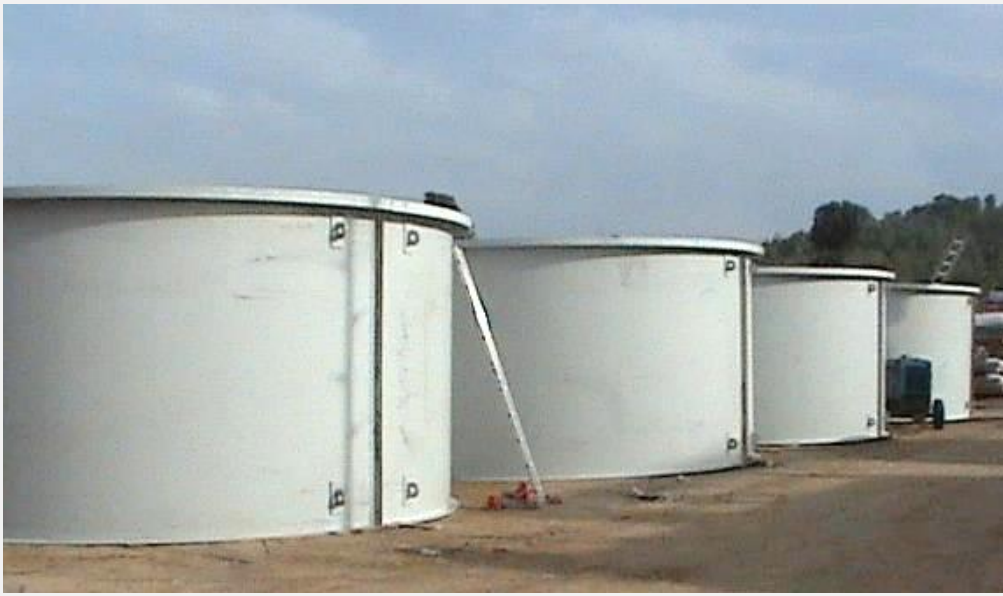


GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

- 3. GT/ Combustion Chamber Insulation.
- 4. Diffuser Shell Positioning





GEREGU (Phase I) – 414
MW Power Plant (3 X GAS
TURBINE). Contd.

5. Exhaust Stack Assembly.

6. Raw Water Tank -
fabrication





GEREGU (Phase I) – 414 MW Power Plant (3 X GAS TURBINE). Contd.

2005 -2008

7. Air Intakes System Erection



SDEM Equipment, Plant & Machineries and Logistics Vehicles

Lifting Equipment

- Mobile cranes 10 Nos : (25 to 220 ton capacity)
- Workshop overhead cranes
- Generators of 6.6KVA – 275 KVA
- Personnel lifting basket (26m reach)
- Forklifts
- Mobile scaffold Tower (12m platform)
- Payloader
- Backhoe excavator
- Diesel compressors

Machineries & Plants

- Welding machines : Argon TIG, Arc, Diesel, Electric
- Atlas Copco Compressors
- Lathe machine
- Milling machine
- Threading machine
- Oxy and plasma cutting table
- Shearing machine
- Plate rolling machine
- Hydraulic press
- Blasting and painting unit
- Large stock of scaffold tubes, clips etc

Project Supports

- Site tractors with trailers
- Self loader trucks
- Trucks head with flat bed trailers (20t-30t)
- Trucks head with 60t low bed
- Light motor vehicles

Equipment for erection



THANKYOU

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