

LESEDI'S MAJOR PROJECT REFERENCES



Nuclear



Operations &
Maintenance



Emission Control



Biomass,
Waste to Energy,
Solar & Storage



HVAC



Fire Detection
& Protection



Bespoke
Engineering
Solutions



Oil & Gas



CONTENTS

- 01 Nuclear Project References
- 15 Oil, Gas & Power (OGP) Project References
- 23 Industrial Project References
- 39 Renewables Project References
- 43 Services Project References
- 71 Additional Projects
- 82 Our Clients

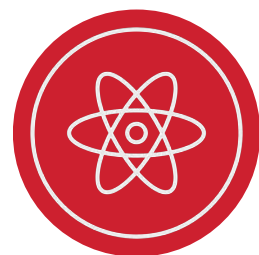


Lesedi is a leading African engineering, procurement and construction (EPC and EPCM) company that has established a highly competent project development team, capable of taking any feasible project from concept to financial close in a professional and efficient manner. Lesedi is involved in all sectors of power generation, namely nuclear, thermal and renewable energy.



LESEDI
ENERGY ENGINEERING

NUCLEAR DIVISION





Project: Safety Aspects for Long Term Operation Assessment Project for the Koeberg Operating Unit (SALTO)

Client: Eskom; Koeberg Nuclear Power Station

Contact: Bravance Matshele MashelBr@eskom.co.za

Value: R94,000,000

Start Date: 3 April 2018

Completion: 2 March 2020

Description: The service is the Koeberg SALTO Scoping and Ageing Management Evaluation



Project: The Replacement of the Steam Generators (SGR) at Koeberg Nuclear Power Station, Unit 1 and 2

Client: AREVA

Contact: Chloe Perbet (chloe.perbet@areva.com)

Value: Confidential

Start Date: September 2014

Completion: June 2019

Description: Eskom appointed Areva, the OEM, as the EPC Contractor for the Steam Generator Replacement (SGR) project. Areva in turn subcontracted a Lesedi and Group 5 JV, to perform the tasks associated with the removal of the six old steam generators and the installation of their replacements. The JV EPC scope includes heavy lifting of the SG's, secondary and auxiliary piping removal and re-installation, platform removal and re-installation, scaffolding, removal of electrical and mechanical interferences, supply and installation of an auxiliary crane and reactor cavity deck, concrete drilling.



Project: Public Notification Sirens

Client: Eskom; Koeberg Nuclear Power Station

Contact: David Stuurman (david.stuurman@eskom.co.za)

Value: R7,000,000

Start Date: August 2017

Completion: August 2018

Description: Design, Manufacture, Supply, Install, and Commission of Four Additional Sirens for the DTW System, in Sunningdale and Parklands areas.



Project: Upgrade of the Fire Detection System (JDT) in the Reactor Buildings at Koeberg Nuclear Power Station.

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (pembas@eskom.co.za)

Value: R22,000,000

Start Date: June 2016

Completion: June 2020

Description: The Project involves the replacement of the fire detection system in Units 1 and 2 Reactor Buildings with a modernised system combining intelligent detection with Aspirating Smoke Detection (ASD) to solve the obsolescence issues and associated risks of equipment failure. The scope of work includes the design, manufacture, supply, installation, testing and commissioning of the replacement fire detection system.



Project: Improving the Leak Tightness of the Fuel Building at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R20,000,000

Start Date: September 2004

Completion: 2010

Description: The design, supply, installation, testing and commissioning of a system that seals off and isolates various parts of the nuclear auxiliary building to prevent the release of radio-active gases during an incident or accident. The design included Mechanical, HVAC, Electrical and I&C Components.



Project: Supply of EPDs & Installation of a Radiological Dose Management System at Koeberg Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R8,000,000

Start Date: May 2006

Completion: 2010

Description: The supply of new MIRION EPDs, & the design, manufacture, supply, installation, testing & commissioning of a new dose management system. It included the installation of new EPD readers, radiological zone entrance and exit controls, interfaces with the existing Canberra portal monitors, a RADPRO software system from MIRION and a complete network of servers, PCs & associated infrastructure.



Project: Rod Control System Replacement at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R30,000,000

Start Date: January 2007

Completion: 2010

Description: The Design, Manufacture, Supply, Installation, Testing and commissioning of a Replacement Rod Control System RGL, with AREVA GmbH as a technology partner.



Project: Upgrade of the Control System for Emergency Diesel Generator Sets at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R8,000,000

Start Date: June 2007

Completion: 2010

Description: The design, supply, installation, testing & commissioning of a large modification to the controls of the 5 Emergency Diesel Generator sets to ensure that the auxiliaries are started & stopped when there is reduction in the grid frequency that in the past tripped the power supplies to important diesel auxiliaries.



Project: Upgrade of Instrumentation required for Accident Mitigation at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R30,000,000

Start Date: TBC

Completion: 2010

Description: The design, supply, installation, testing and commissioning of new replacement instrumentation for mitigating specific accidents in the nuclear auxiliary and reactor buildings. The modification involved mechanical and I&C.



Project: Priority Extraction of Fuel Building Ventilation at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

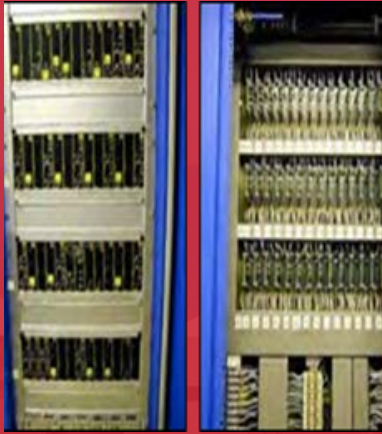
Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R15,000,000

Start Date: TBC

Completion: 2009

Description: The design, supply, manufacture, installation, testing and commissioning of a modification to the Fuel Building Ventilation System to ensure that the evacuation of the areas where there could be a release of radiological gases takes priority over the normal ventilation.



Project: Modification of the Reactor Protection System at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R25,000,000

Start Date: TBC

Completion: 2010

Description: The design, supply, installation, testing and commissioning of an extensive modification of the Reactor Protection System based on the lessons learnt at Three Mile Island.



Project: Upgrade of the Containment Electrical Penetrations at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R10,000,000

Start Date: TBC

Completion: 2009

Description: The design, supply, installation, testing and commissioning of replacement electrical penetrations that can withstand accident conditions in the reactor building for critical signals



Project: Replacement of the PORVs at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R55,000,000

Start Date: TBC

Completion: 2009

Description: The design, supply, manufacture, installation, testing and commissioning of a modification to replace the Pressure Operated Relief Valves with Pilot Operated Relief Valves capable of releasing water during a Loss of Coolant Accident.



Project: Additional Radiation Monitors for the Nuclear Auxiliary Building Ventilation System at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

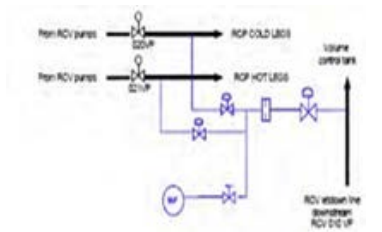
Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R10,000,000

Start Date: TBC

Completion: 2008

Description: The design, supply, manufacture, installation, testing and commissioning of a new radiation monitoring system from MIRION for the Nuclear Auxiliary Building ventilation system (DVN).



Project: Prevention of Farley-Tihange Modification at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R50,000,000

Start Date: TBC

Completion: 2008

Description: The design, supply, installation, testing and commissioning of a system that will prevent the occurrence of the Farley-Tihange effect, high differential pressures causing leakage and thermal cycles, on critical components in the primary reactor circuit. The modification involved mechanical, electrical and I&C.



Project: RRI Isolation in case of a Break on DEG at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R15,000,000

Start Date: TBC

Completion: 2008

Description: The design, supply, installation, testing and commissioning of a system for isolation of the Component Cooling Water supply in case of a break of a line on the Chilled Water System (DEG). This modification included mechanical and I&C.



Project: EAS / RIS Venting at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R10,000,000

Start Date: TBC

Completion: 2007

Description: The design, supply, installation, testing and commissioning of a modification to add vent lines to Containment Spray and Safety Injection systems, and to drill holes in the top of the Containment Spray and the Reactor Cavity and Spent Fuel Pool Cooling System tank suction elbows (inside the tanks).



Project: Installation of a Hydrogen Detection System for the Nuclear Auxiliary Building at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R10,000,000

Start Date: TBC

Completion: 2006

Description: The design, supply, installation, testing and commissioning of a new hydrogen monitoring system in the Koeberg Nuclear Auxiliary Building to monitor areas where there is a likelihood of hydrogen release.



Project: Auto isolation of RCV Letdown on High Temperature at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R8,000,000

Start Date: TBC

Completion: 2007

Description: The design, supply, manufacture, installation, testing and commissioning of a modification to isolate the Chemical Volume and Control System (RCV) when the letdown temperatures are too high.



Project: Hydrogen Management System for Containment at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R20,000,000

Start Date: TBC

Completion: 2006

Description: The design, supply, installation, testing and commissioning of a static hydrogen management system consisting of hydrogen recombiners in the reactor building.



Project: Improvement of the SAR Instrument Air Quality at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R20,000,000

Start Date: TBC

Completion: 2005

Description: The design, manufacture, supply, manufacture, installation, testing and commissioning of a new air compressor and dryer for the Process Air System (SAR).



Project: Additional SAR Tank for ASG at Koeberg Power Station

Client: Eskom; Koeberg Nuclear Power Station

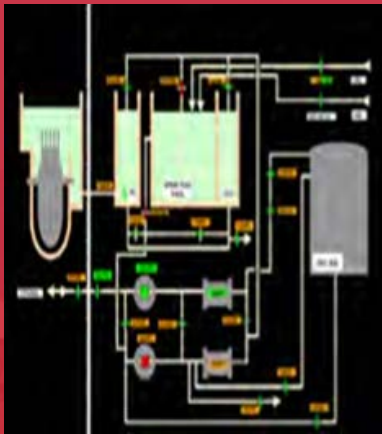
Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R12,000,000

Start Date: TBC

Completion: 2004

Description: The design, supply, manufacture, installation, testing and commissioning of an additional nitrogen supply tank (SAR) for the auxiliary feedwater system, in case of a loss of the compressed air supply to the Woodward governor of the turbine-driven feedwater pump (ASG).



Project: Upgrade of the Spent Fuel Pool Cooling System at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R6,000,000

Start Date: TBC

Completion: 2004

Description: The design, supply, installation, testing and commissioning of a modification to upgrade the spent fuel pool cooling system from a non-safety system to a 1E-qualified system (to match the requirements of ANSI 57.2 following the Spent Fuel Pool Re-Racking project). The project required extensive replacement of components, like motors, instrumentation, power supplies and the provision of new and extended operator interfaces.



Project: Anti-Dilution Modification at Koeberg Nuclear Power Station

Client: Eskom; Koeberg Nuclear Power Station

Contact: Siphokazi Pemba (PembaS@eskom.co.za)

Value: R30,000,000

Start Date: TBC

Completion: 2004

Description: The design, supply, installation, testing & commissioning of a system that prevents dilution of the primary water from various water sources thus preventing the risk of localised criticality in the reactor.



LESEDI
ENERGY ENGINEERING

OGP
DIVISION





Project: Ankerlig Transmission Koeberg Second Supply Project (ATKSS) at Ankerlig Power Station

Client: Eskom Holdings SOC Ltd

Contact: Stephen Moletsane (smoletsane@groupfive.co.za)

Value: R337,000,000

Start Date: July 2017

Completion: TBC

Description: Turnkey design, manufacture, supply, install, commission and testing the gas turbine power station for the Ankerlig Transmission Koeberg Second Supply project at Ankerlig Power Station.



Project: OCGT Balance of Plant

Client: Eskom; Koeberg Nuclear Power Station

Contact: Roderick Beckmann (Roderick.Beckmann@eskom.co.za)

Value: R52,600,000

Start Date: May 2006

Completion: 2007

Description: Engineering, procurement, and construction of the Balance of Plant for Eskom's Ankerlig Power Station. The site has a generating capacity of 600MWe made up of 4 x 150MW Siemens OCGT's. The BOP systems included potable water, demineralised water, fire water, compressed air, fuel unloading, fuel forwarding, fuel treatment, fuel storage, fire detection, fire protection, including process, mechanical, electrical and C&I.



Project: Mkuze Biomass Power Plant

Client: Group Five

Contact: TBC

Value: TBC

Start Date: TBC

Completion: TBC

Description: Design of the Balance of Plant for the Power Station



Project: OCGT Mechanical Erection

Client: Eskom; Koeberg Nuclear Power Station

Contact: Roderick Beckmann (Roderick.Beckmann@eskom.co.za)

Value: R25,100,000

Start Date: 2005

Completion: 2007

Description: The Mechanical Erection of 4 x 150MW Siemens OCGT generators and associated equipment.



Project: OCGT Balance of Plant
Client: Eskom Gourikwa Power Station
Contact: Roderick Beckmann (Roderick.Beckmann@eskom.co.za)
Value: R39,400,000
Start Date: 2005
Completion: 2007
Description: Engineering, procurement, and construction of the Balance of Plant for Eskom's Ankerlig Power Station. The site has a generating capacity of 450MWe made up of 3 x 150MW Siemens OCGT's. The BOP systems included potable water, demineralised water, fire water, compressed air, fuel unloading, fuel forwarding, fuel treatment, fuel storage, fire detection, fire protection, including process, mechanical, electrical and C&I.



Project: Gas1 Balance of Plant
Client: Eskom Ankerlig Power Station Expansion
Contact: Roderick Beckmann (Roderick.Beckmann@eskom.co.za)
Value: R85,700,000
Start Date: 2006
Completion: 2008
Description: Engineering, procurement, and construction of the Balance of Plant for Eskom's Ankerlig Power Station. The site has a generating capacity of 750MWe made up of 5 x 150MW Siemens OCGT's. The BOP systems included potable water, demineralised water, fire water, compressed air, fuel unloading, fuel forwarding, fuel treatment, fuel storage, fire detection, fire protection, including process, mechanical, electrical and C&I.



Project: Gas1 Balance of Plant
Client: Eskom Gourikwa Power Station Expansion
Contact: Roderick Beckmann (Roderick.Beckmann@eskom.co.za)
Value: R34,300,000
Start Date: 2006
Completion: 2008
Description: Engineering, procurement, and construction of the Balance of Plant for Eskom's Gourikwa Power Station. The site has a generating capacity of 300MWe made up of 2 x 150MW Siemens OCGT's. The BOP systems included potable water, demineralised water, fire water, compressed air, fuel unloading, fuel forwarding, fuel treatment, fuel storage, fire detection, fire protection, including process, mechanical, electrical and C&I



Project: Tank Refurbishment Kurasini Depot Dar Es Salaam Tanzania
Client: Engen Tanzania
Contact: TBC
Value: R13,520,000
Start Date: 2011
Completion: 2014
Description: The Design, Engineering, Prepare Tender Documentation, Construction & Management of the Civil / Mechanical / Painting refurbishment on fuel tanks 401, 402 & 601.



Project: Transfer Line – Lusaka, Zambia
Client: Engen Zambia
Contact: TBC
Value: R6,000,000
Start Date: April 2015
Completion: December 2015
Description: The Design, Engineering, Prepare Tender documents, Construction and Management of the installation of two custody transfer pipelines (Diesel and ULP) between Engen depot and the government tank farm.



Project: Blantyre Tank Project
Client: Engen Malawi
Contact: TBC
Value: R1,500,430
Start Date: November 2015
Completion: April 2016
Description: The design Engineering, Prepare Tender Documentation, Management of the civil foundations & fuel pipelines installation of 4 self-bunded fuel tank at Engen Blantyre Depot



Project: HUSAB Uranium Mine – Tank Farm
Client: Engen Namibia
Contact: TBC
Value: R7,300,000
Start Date: June 2015
Completion: September 2016
Description: The Design, Engineering, prepare Tender documents, Construction & Management of pump stations & overland pipeline between self-bunded diesel storage tanks facilities at HUSAB Uranium Mine.



Project: Tank Refurbishment Botswana - Tank 1545
Client: Engen Botswana
Contact: TBC
Value: R2,540,400
Start Date: August 2016
Completion: November 2016
Description: The Design, Engineering, Prepare Tender Documentation, Construction and Management of the Civil/Mechanical/Painting refurbishment on the diesel Tank 1545 refurbishment at Engen Francistown, Botswana Depot.



Project: Tank refurbishment Walvis Bay – Tank 383

Client: Engen Namibia

Contact: TBC

Value: R4,100,000

Start Date: September 2016

Completion: January 2017

Description: The Design, Engineering, Prepare Tender Documentation, Construction and Management of the Civil/Mechanical/Painting refurbishment on the Jet A 1 Tank 383 at the Engen Walvis Bay Namibia Depot.



Project: Construction of Three Fuel Tanks

Client: Engen Namibia

Contact: TBC

Value: R29,445,340

Start Date: March 2014

Completion: April 2015

Description: The Design, Engineering, Prepare Tender Documentation and project management of the tank construction including all mechanical and blasting and painting for three new build tanks at the Engen Walvis Bay Namibia Depot. The tanks were 1 x 8,000m3 Diesel, 1 x 8,000m3 ULP and 1 x 2,900 m3 Jet A1



LESEDI
ENERGY ENGINEERING

INDUSTRIAL
DIVISION





Project: Palmiet Blowdown Air Compressors
Client: Eskom
Contact: Olga Tshabalala (MkansiO@eskom.co.za)
Value: R18,000,000
Start Date: August 2017
Completion: 31 March 2018
Description: Replacement of four Blowdown Air Compressors at Palmiet. The scope includes the design, manufacture, factory acceptance testing, supply, delivery, installation and commissioning of four air compressors and associated equipment such as controls, piping, valves, fittings and other accessories to enable satisfactory operation of the blowdown air system for Palmiet Pumped Storage Scheme.



Project: Technical Services for the Installation of Guide Vane Bushes on Unit 1 Turbine Refurbishment Outage at Palmiet Pumped Storage Scheme
Client: Eskom; Palmiet Hydro Power Station
Contact: Philemon Maimela (MaimelK@eskom.co.za)
Value: R7,500,000
Start Date: February 2016
Completion: April 2016
Description: A Turnkey contract for the dismantling and re-assembly of Guide Vane Bush Seals and related components to facilitate the machining. Services included Contract and Project Management, Safety Officers, Supervisors with PSR qualifications, Mechanical Fitters, Riggers, Welders, and Semi-Skilled Assistants.



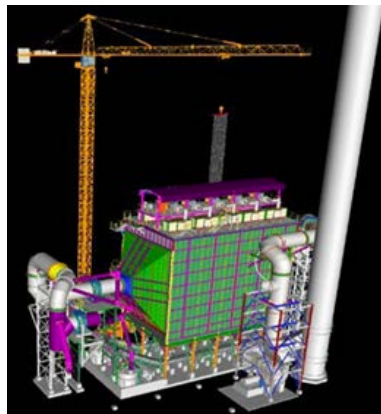
Project: EPCM Low Pressure Services
Client: Eskom; Medupi Power Station
Contact: Roman Crookes (roman.crookes@eskom.co.za)
Value: R1,400,000,000
Start Date: September 2009
Completion: December 2017
Description: Engineering, procurement, and construction of 18 low pressure services including raw water, potable water, demineralised water, effluent water, fire water, process air, service air, instrument air, oil, and fuel.



Project: Amatikulu Optimisation Project
Client: Aveng
Contact: TBC
Value: R550,000 (\$37,339 x 14.73)
Start Date: October 2015
Completion: November 2015
Description: A Feasibility study and review of a Bagasse fired Power Plant and the Concept Design of the Bagasse Bulk Storage Facility. Lesedi's value of the Construction phase of the Project is R160 million



Project: Procurement of Low Pressure Services Equipment at Kusile Power Station
Client: Grinaker LTA
Contact: TBC
Value: R140,000,000
Start Date: April 2011
Completion: July 2015
Description: Procurement of the BOP and Equipment Engineering



Project: New ESP Detailed Design (L1224)
Location: Syama Gold Mine, Mbembéré, Mali.
Client: Société des Mines de Syama S.A.
Contact: Pieter Oberholzer (+223 929 0 68400)
Value: R27,700,000
Start Date: June 2024
Completion: August 2025
Description: Very complex brownfields integration for a detailed design of a new Electrostatic Precipitator Plant at the Syama Gold Mine Processing Plant with gold dust capturing efficiency of 99% at normal plant operation.



Project: Clayville Electrostatic Precipitator (L1201)
Location: Olifantsfontein, Gauteng, South Africa.
Client: Ardagh Glass (Consol)
Contact: Craig Findlay (craig.findlay@ardaghgroup.com)
Value: R170,000,000
Start Date: May 2024
Completion: September 2025
Description: Design, construct and install a new 4-field ESP and associated equipment for a glass factory in order to meet particulate matter emissions standards. The scope also included a substation building, ID fans and lime sorbent reaction vessel for dry SO2 absorption.



Project: N1 Electrostatic Precipitator (L1216)
Location: Nigel, Gauteng, South Africa.
Client: Ardagh Glass (Consol)
Contact: Craig Findlay (craig.findlay@ardaghgroup.com)
Value: R67,000,000
Start Date: May 2024
Completion: September 2025
Description: Turnkey greenfield project for the design, manufacture install and commissioning of a new 3-field ESP with auxiliary equipment for glass furnace flue gases in order to meet the required particulate matter emissions standards. The scope also included hydrated lime injection system for dry SO2 absorption capabilities.



Project: Wadeville Electrostatic Precipitator (L1181)
Location: Wadeville, Johannesburg, South Africa.
Client: Ardagh Glass (Consol)
Contact: Craig Findlay (craig.findlay@ardaghgroup.com)
Value: R91,000,000
Start Date: April 2022
Completion: January 2024
Description: A greenfields design, supply, construct and commissioning of a new 3-field ESP with auxiliary equipment for furnace flue gas cleaning technology in order to meet particulate matter emissions standards.



Project: N3 Electrostatic Precipitator (L1193)
Location: Nigel Plant, Gauteng, South Africa.
Client: Ardagh Glass (Consol)
Contact: Craig Findlay (craig.findlay@ardaghgroup.com)
Value: R52,000,000
Start Date: June 2023
Completion: February 2024
Description: Design, procure, supply and installation of a new hot ESP and its associated equipment to ensure the glass furnace particulate emissions are below 50mg/Nm3 in order to meet the required particulate matter emissions standards.



Project: N2 Electrostatic Precipitator (L1175)
Location: Nigel, Gauteng, South Africa.
Client: Ardagh Glass (Consol)
Contact: Craig Findlay (craig.findlay@ardaghgroup.com)
Value: R50,000,000
Start Date: November 2021
Completion: June 2022
Description: A turnkey project for the design, construction and commissioning of a new ESP with associated equipment for glass furnace particulate matter abatement. This technology ensures the plant emissions comply with environmental regulations.



Project: Roaster Circuit ESP Upgrade (L1224)
Location: Syama Gold Mine, Mbembéré, Mali.
Client: Société des Mines de Syama S.A.
Contact: Pieter Oberholzer (+223 929 0 6840)
Value: R29,500,000
Start Date: October 2024
Completion: Ongoing
Description: This Roaster ESP upgrade work is to handle higher gas throughput and dust load, including shutdown maintenance work on the rapping, air purge and discharge systems.



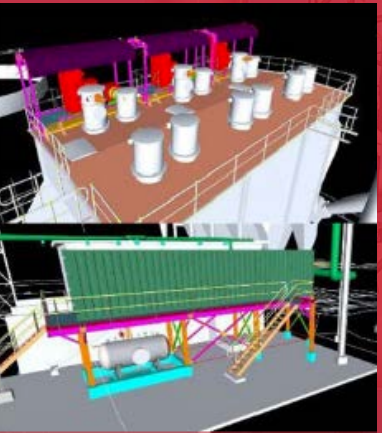
Project: ESP Refurbishment of Unit 1 (L1206)
Location: Matla Power Station, Mpumalanga, South Africa
Client: Eskom Holdings SOC Ltd.
Contact: Solomon Ndlovu (NdlovuSo@eskom.co.za)
Value: R436,000,000
Start Date: December 2023
Completion: June 2025
Description: This total refurbishment project improved the overall ESP Performance and efficiency to ensure that the environmental legislation for particulate matter emissions is met. The scope included new discharge electrodes, collecting electrodes, rapping systems, screens, hot and cold roof and new high frequency power supplies (HFPS).



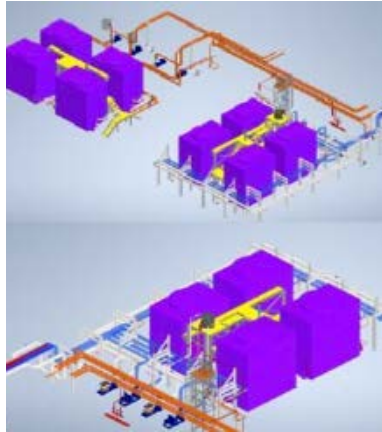
Project: Lime Injection SO2 Abatement Test Skid (L1235)
Location: Vanderbijlpark, Gauteng.
Client: Arcelor Mittal, South Africa (AMSA)
Contact: Erwee Lourens (Erwee.Lourens@arcelormittal.com)
Value: R700,000
Start Date: October 2024
Completion: Ongoing
Description: EPC of a custom, fit for purpose, lime injection test skid to reduce the SO2 emissions, and a lime storage silo, designed for permanent operation.



Project: ESP Refurbishment of Unit 4 (L1178)
Location: Matla Power Station, Mpumalanga, South Africa
Client: Eskom Holdings SOC Ltd.
Contact: Solomon Ndlovu (NdlovuSo@eskom.co.za)
Value: R293,000,000
Start Date: September 2021
Completion: February 2023
Description: This upgrade enables Eskom to meet environmental legislation for particulate emissions. It forms part of Eskom's license to operate and assist continuity of supply from Unit 4, the ESP was refurbished and upgraded for improved performance which included new discharge electrodes, collecting electrodes, rapping systems, screens, hot and cold roof and new high frequency power supplies.



Project: Dryers #5 & #6 Particle Abatement Upgrade (L1208)
Location: Rustenburg, South Africa
Client: Impala Platinum
Contact: Bennie Havenga (+2714 569 7367)
Value: R83,000,000
Start Date: November 2023
Completion: September 2025.
Description: Design, installation and commissioning of a Dual Flue Gas Conditioning plant with High Frequency Power Supplies to reduce the emissions from the dryer ESPs.



Project: Cooling System Design (L1218 + L1251)
Location: Richards Bay, South Africa.
Client: South32 Hillside
Contact: Devanand Dhaniram (devanand.dhaniram@south32.net)
Value: R5,800,000
Start Date: June 2024
Completion: Ongoing
Description: This engineering package, equipment selection and design work was for upgrade of the cooling towers and circulation pumps for subsystems 1, 2 and 3 at the Hillside Smelter.



Project: Compressor House Renewal (L1186)
Location: Rustenburg, Northwest, South Africa.
Client: Valterra Platinum.
Contact: Thomas Hlongwane +27 76 238 1125
thomas.hlongwane@valterraplatinum.com
Value: R35,500,000 (Total Project R270,000,000)
Start Date: April 2022
Completion: Ongoing
Description: As the EPCm contractor, we designed, supplied, installed and commissioned 3x new ZH2250 compressors with additional cooling towers and engineered and executed all the balance of plant within the existing compressor house.



Project: Converter Sonic Air Injection Plant (L1154)
Location: Western Platinum Mine, Marikana, South Africa.
Client: Sibanye Stillwater.
Contact: Patrick Spratt (Patrick.Spratt@sibanyestillwater.com)
Value: R12,000,000 (Total Project R70m)
Start Date: November 2021
Completion: March 2025.
Description: Our scope included the engineered integration and installation of 2 x ZR900 compressors with new cooling towers to support the sonic injection of air into the converters.



Project: Compressor Integration (L1189 + L1242)
Location: Richards Bay, South Africa
Client: South32 Hillside Smelter
Contact: Devanand Dhaniram (devanand.dhaniram@south32.net)
Value: R10,400,000
Start Date: October 2022
Completion: Ongoing.
Description: EPCm of the design and integration of 10-off NX5000 compressors capable of delivering a total of 85 000 Nm3/hour of compressed air.



Project: Compressor Integration & Cooling System Upgrade.
Location: Boane District, Maputo, Mozambique.
Client: South32 Mozal.
Contact: Ines Elisa da Costa (+258 84 321 1331)
Value: R32,500,000
Start Date: August 2023
Completion: November 2024
Description: Integration and design for a new compressor and dryer that can deliver 6,700 Nm³/hour of oil-free air with a PDP of - 20°C. The introduction of the new compressed air equipment is accompanied by a cooling system upgrade with a 4,400kW heat rejection capacity to support the future upgraded compressor house.



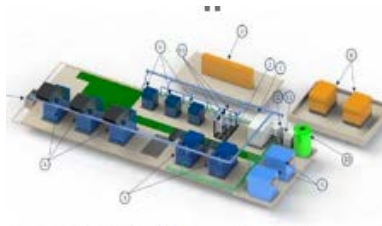
Project: Cobalt Wash Filter Press Feasibility Study (L1213)
Location: Rustenburg, Northwest, South Africa.
Client: Valterra Platinum.
Contact: Surani Dissanayake +27 71 274 5896
(surani.dissanayake@valterraplatinum.com).
Value: R2,400,000
Start Date: February 2024
Completion: August 2024
Description: This FEED included the integration of the automated cobalt wash filter press supplied by Roxia (the OEM).



Project: Effluent and Sodium Storage Silo Feasibility Study (L1197)
Location: Rustenburg, Northwest, South Africa.
Client: Valterra Platinum.
Contact: Surani Dissanayake +27 71 274 5896
(surani.dissanayake@valterraplatinum.com).
Value: R293,000,000
Start Date: February 2023
Completion: November 2024
Description: This FEED included the AFC design for a new storage silo at the Effluent and Sodium Plant.



Project: Cobalt Sulphate Bagging Plant (L1187)
Location: Rustenburg, South Africa
Client: Valterra Platinum.
Contact: Surani Dissanayake +27 71 274 5896
(surani.dissanayake@valterraplatinum.com).
Value: R4,500,000
Start Date: August 2022
Completion: September 2024
Description: This FEED included the AFC detailed design for an automated packing line, at the Cobalt Sulphate bagging plant.



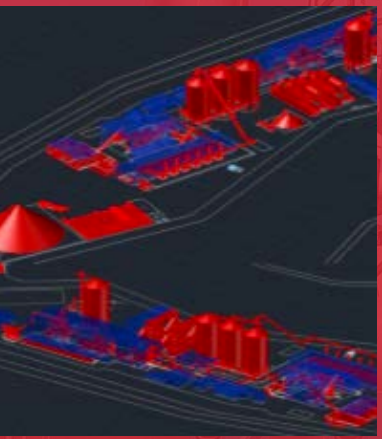
Project: Compressed Air Study (L1199)
Location: Syama Gold Mine, Mbembéré, Mali
Client: Société des Mines de Syama S.A.
Contact: Shaun Burrell +1(615) 398-2871
Value: R2,500,000
Start Date: April 2023
Completion: August 2023
Description: We performed an asset integrity engineering study of the compressed air equipment and pneumatic infrastructure at Syama Gold Mine that provided a recommended solution for the future system and operation.



Project: High Frequency Power Supplies (L1180)
Location: Kriel Power Station, Mpumalanga, South Africa.
Client: Eskom Holdings SOC Ltd
Contact: Moss Mokoena (mokoem5@eskom.co.za)
Value: R500,000,000
Start Date: January 2022
Completion: Ongoing
Description: Design, manufacturing, installation and commissioning of High Frequency Power Supplies at Kriel Power Station Units 1, 3, 4, 5 and 6. This multi-disciplinary engineering integration included the supply and installation of 84 HFPS



Project: Operations Care and Maintenance Audit
Location: Moramanga, Madagascar
Client: SRK Consulting
Contact: James Lake (jlake@srk.co.za)
Value: R1,600,000
Start Date: July 2025
Completion: September 2025
Description: Cost analysis and development of the mine's Care & Maintenance (C&M) and Asset Preservation (APS) scenarios. This includes assessing operational areas for the Ore Preparation and Processing Plants, updating socio-economic impact assessments. The evaluation is based on two planning timeframes: 18 months for C&M and 5 years for APS.



Project: Biomass Pelletizing Plant (L1222)
Location: Montigny Sawmill, Eswatini (Swaziland)
Client: Emerald Renewables (Pty) Ltd.
Contact: Christo Snyman (christosnyman@lantic.net) Errol Fransman (efransman@candlewickinternational.com)
Value: R425,000,000
Start Date: November 2025
Completion: March 2027
Description: As the EPC contractor, we will design, procure, fabricate, supply and construct a white biomass pelletizing plant. The plant will have a rated capacity of 180,000 tons per annum of wood pellet output.



Project: Emergency Acid Tank Farm Construction (L1195)
Location: Rustenburg, Northwest, South Africa
Client: Valterra Platinum.
Contact: Brian Dlamini (brian.dlamini@valterraplatinum.com), +27 83 990 1781
Value: R16,000,000
Start Date: February 2023
Completion: December 2023
Description: Design, construction and commissioning of an interim acid tank farm.



Project: Nickel Sulphate & Copper Tank FEED (L1247)
Location: Marikana, Northwest, South Africa
Client: Sibanye-Stillwater
Contact: Paul Fourie (Paul.Fourie@sibanyestillwater.com) +2714 571 2428
Value: R1,400,000
Start Date: October 2025
Completion: December 2025
Description: Development of the engineering package for the integration and installation of a nickel sulphate buffer tank and a copper spent solution tank for the Sherritt Gordon chemical process at the Base Metals Refinery.



Project: Ash Disposal Facility – Phase 1 (L1176)
Location: Kendal Power Station, Mpumalanga, South Africa
Client: Eskom Holdings SOC Ltd
Contact: Patience Khoza (Khozapm@eskom.co.za)
Value: R345,000,000
Start Date: November 2021
Completion: February 2026
Description: This contract covers the multi-disciplinary engineering scope to pump polluted water from PCD1 to the Ash Dump for dust suppression. Using four float-mounted submersible pumps and a 4 km HDPE pipeline, the system maintains safe dam levels and can be operated automatically from the OPCR or the MCC container for the LPS plant.



Project: AB Inbev New Compressor and Auxiliaries Integration (L1256)
Location: Krugersdorp, Gauteng, South Africa
Client: Superior Pressure Solutions
Contact: Berenike Smal (Berenike@spress.co.za)
Value: R2 000 000
Start Date: February 2026
Completion: Ongoing
Description: Design, supply, install and commission 1 new DENAIR DAC 80 compressor, together with its inlet air filter, After-cooler, Blow-off silencer and balance of plant engineering for the client compressed air expansion requirements.



LESEDI
ENERGY ENGINEERING

GRID & RENEWABLES DIVISION





Project: N2316 - CCT - 7MW Solar PV Atlantis
Location: South Africa
Client: City of Cape Town
Contact: Marlyn Hendricks +27 21 444 8387
Value: Confidential
Start Date: 11 March 2024
Completion: In Progress
Description: Engineering, Procurement, Construction, Operation and Maintenance (O&M) of A 7 MW (AC To Grid) Ground Mounted Solar Photovoltaic (PV) Facility in Atlantis



Project: N2334 - Cloetesdal - Grid-Tied Power Supply for Newinbosch
Location: South Africa
Client: Cloetesdal
Contact: Jock Brown +27 21 812 4730
Value: Confidential
Start Date: 25 November 2025
Completion: In Progress
Description: Design, Supply, Installation, Operation And Maintenance Of A 3.8MW Grid-Tied Power Supply System For The Newinbosch Property Development



Project: N2506 - Unipackfruit - Solar PV System
Location: South Africa
Client: Unipackfruit
Contact: Marnus Van Wyk +27 23 615 1290
Value: Confidential
Start Date: 20 March 2025
Completion: July 2025
Description: Design, Supply, Installation, Operation And Maintenance Of A 580kwp Grid-Tied Solar Pv System For Unipack Fruit



Project: AMSA 200MW Feasibility Study
Location: South Africa
Client: AMSA
Contact: Rafael Furlan +27 16 889 5143
Value: Confidential
Start Date: 2 August 2022
Completion: October 2025
Description: This project is for the professional services relating to development activities required for wind project at AMSA's Saldanha site and solar PV project at AMSA's site at Vanderbijlpark, South Africa.



LESEDI
ENERGY ENGINEERING

SERVICES DIVISION





Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)
Location: Angra 2 Nuclear Power Station, Brazil
Client: Framatome GmbH
Contact: Oliver Birthelmer oliver.birthelmer@framatome.com
Value: TBC
Start Date: January 2026
Completion: February 2026
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet), IBL (Inner Bundle Lancing) and TV Inspection / Foreign Object Search and Retrieval



Project: Reactor Fuel Handling
Location: Callaway Nuclear Power Station, Missouri, USA
Client: Framatome Inc.
Contact: Jim Adams Jim.Adams@Framatome.com
Value: R944,380.76 (\$56797 x 16.63 Rands)
Start Date: April 2025
Completion: July 2025
Description: Reactor Fuel handling activities



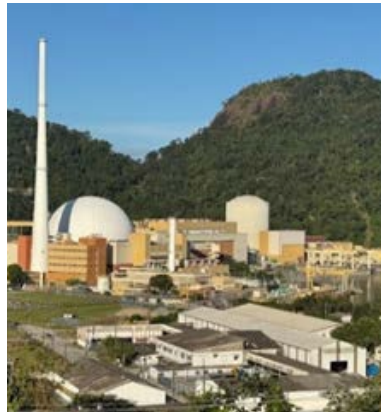
Project: Outage Support (KB127) - Valves, Headwork, Steam Generator and Primary Pumps
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: R85,656,883.00
Start Date: February 2025
Completion: October 2025
Description: Maintenance Support during Outage KB127 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance, Visual Inspections and Primary Pump Maintenance



Project: Reactor Fuel Handling
Location: Borssele Nuclear Power Station, Netherlands
Client: Framatome GmbH
Contact: Tim POPP & Florian LUNZ tim.popp@framatome.com & florian.lunz@framatome.com
Value: TBC (€107,799.00)
Start Date: March 2025
Completion: April 2025
Description: Reactor Fuel handling activities



Project: Outage Support - Steam Generator and Reactor Fuel
Location: Olkiluoto 3 Nuclear Power Station (OL3), Finland
Client: Framatome GmbH
Contact: Oliver BIRTHELMER (SG) & Kay BEHNKE (Fuel)
oliver.birtheimer@framatome.com & kay.behnke@framatome.com
Value: €425,370.00
Start Date: March 2025
Completion: April 2025
Description: Steam Generator Sludge Lancing and Opening & Closing activities; Reactor Fuel handling activities; Visual Inspections



Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)
Location: Angra 2 Nuclear Power Station, Brazil
Client: Framatome GmbH
Contact: Oliver Birthelmer oliver.birtheimer@framatome.com
Value: €78,561.00
Start Date: TBC
Completion: November 2024
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and TV Inspection / Foreign Object Search and Retrieval



Project: Reactor Fuel Handling
Location: Salem Nuclear Power Station, New Jersey, USA
Client: Framatome Inc.
Contact: Jim Adams Jim.Adams@Framatome.com
Value: \$102,758.00
Start Date: February 2025
Completion: March 2025
Description: Reactor Fuel handling activities



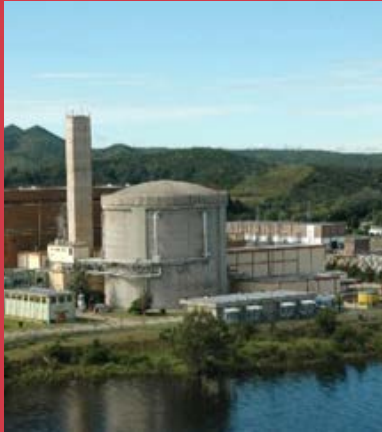
Project: Reactor Fuel Handling
Location: Salem Nuclear Power Station, New Jersey, USA
Client: Framatome Inc.
Contact: Jim Adams Jim.Adams@Framatome.com
Value: \$79,959.00
Start Date: September 2024
Completion: November 2024
Description: Reactor Fuel handling activities



Project: Steam Generator Sludge Lancing and UBF
Location: Seabrook Nuclear Power Station, New Hampshire, USA
Client: Framatome Inc.
Contact: Gary Fries gary.fries@framatome.com
Value: \$54,929.00
Start Date: September 2024
Completion: October 2024
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and Flushing of Upper Tube Bundle



Project: Reactor Fuel Handling
Location: Borsselle Nuclear Power Station, Netherlands
Client: Framatome GmbH
Contact: Tim Popp & Florian Lunz tim.popp@framatome.com & florian.lunz@framatome.com
Value: 168,432.00 €
Start Date: April 2024
Completion: May 2024
Description: Reactor Fuel handling activities



Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)
Location: Embalse Nuclear Power Station, Argentina
Client: Framatome GmbH
Contact: Oliver Birthelmer oliver.birthelmer@framatome.com
Value: 32,297.00 €
Start Date: August 2024
Completion: September 2024
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and TV Inspection / Foreign Object Search and Retrieval



Project: Outage Support - Steam Generator and Reactor Fuel
Location: Olkiluoto 3 Nuclear Power Station (OL3), Finland
Client: Framatome SAS (SG Opening & Closing) & Framatome GmbH (SG Sludge Lancing, TVI & Fuel)
Contact: Kay Behnke kay.behnke@framatome.com
Value: 147,063.00 €
Start Date: March 2024
Completion: May 2024
Description: Steam Generator Sludge Lancing and Opening & Closing activities; Reactor Fuel handling activities; Visual Inspections



Project: Outage Support (KB226) - Valves, Headwork, Steam Generator and Primary Pumps

Location: Koeberg Nuclear Power Station, South Africa

Client: Framatome SAS

Contact: Thomas Feugas thomas.feugas@framatome.com

Value: TBC

Start Date: December 2023

Completion: December 2024

Description: Maintenance Support during Outage KB226 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance; Visual Inspections



Project: Outage Support (KB126) - Valves, Headwork, Steam Generator and Primary Pumps

Location: Koeberg Nuclear Power Station, South Africa

Client: Framatome SAS

Contact: Thomas Feugas thomas.feugas@framatome.com

Value: 168,432.00 €

Start Date: December 2022

Completion: December 2023

Description: Maintenance Support during Outage KB126 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance; Visual Inspections



Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)

Location: Angra 1 Nuclear Power Station, Brazil

Client: Framatome GmbH

Contact: Oliver Birthelmer oliver.birthelmer@framatome.com

Value: 40,571.00 €

Start Date: October 2023

Completion: November 2023

Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and TV Inspection / Foreign Object Search and Retrieval



Project: Heat Exchangers Mechanical Tube Cleaning

Location: Sasol 3 Refinery, Secunda, South Africa

Client: Sasol

Contact: Pieter Venter Pieter.Venter3@sasol.com

Value: R7,500,000

Start Date: August 2022

Completion: September 2022

Description: Mechanical Tube Cleaning of 22 Heat Exchangers during the annaul shutdown



Project: Heat Exchangers Mechanical Tube Cleaning
Location: Sasol 3 Refinery, Secunda, South Africa
Client: Sasol
Contact: Pieter Venter Pieter.Venter3@sasol.com
Value: R2,300,000.00
Start Date: June 2022
Completion: July 2022
Description: Mechanical Tube Cleaning of 8 Heat Exchangers during the annaul winter cleaning



Project: Heat Exchangers Mechanical Tube Cleaning
Location: Sasol 2 Refinery, Secunda, South Africa
Client: Sasol
Contact: TBC
Value: TBC
Start Date: August 2021
Completion: September 2021
Description: Mechanical Tube Cleaning of 22 Heat Exchangers during the annaul shutdown



Project: Outage Support (KB225) - Valves, Headwork, Steam Generator and Primary Pumps
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: R9,555,573.00
Start Date: January 2022
Completion: July 2022
Description: Maintenance Support during Outage KB225 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance; Visual Inspections



Project: Heat Exchangers Mechanical Tube Cleaning
Location: Sasol 2 & 3 Refineries, Secunda, South Africa
Client: Sasol
Contact: TBC
Value: R5,300,000.00
Start Date: June 2021
Completion: August 2021
Description: Mechanical Tube Cleaning of 20 Heat Exchangers during the annaul winter cleaning



Project: Outage Support (KB125) - Valves, Headwork, Steam Generator and Primary Pumps

Location: Koeberg Nuclear Power Station, South Africa

Client: Framatome SAS

Contact: Thomas Feugas thomas.feugas@framatome.com

Value: TBC

Start Date: January 2021

Completion: May 2021

Description: Maintenance Support during Outage KB125 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance



Project: Heat Exchangers Mechanical Tube Cleaning

Location: Sasol 2 Refinery, Secunda, South Africa

Client: Sasol

Contact: TBC

Value: R248,000.00

Start Date: TBC

Completion: November 2020

Description: Mechanical Tube Cleaning of 3 Heat Exchangers



Project: Heat Exchangers Mechanical Tube Cleaning

Location: Sasol 2 Refinery, Secunda, South Africa

Client: Sasol

Contact: TBC

Value: R200,000.00

Start Date: TBC

Completion: January 2021

Description: Mechanical Tube Cleaning of 2 Heat Exchangers



Project: Outage Support (KB224) - Valves, Headwork, Steam Generator and Primary Pumps

Location: Koeberg Nuclear Power Station, South Africa

Client: Framatome SAS

Contact: Thomas Feugas thomas.feugas@framatome.com

Value: TBC

Start Date: July 2020

Completion: October 2020

Description: Maintenance Support during Outage KB224 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance; Visual Inspections



Project: DMDS Dosing
Location: Astrom Refinery, Cape Town, South Africa
Client: ARKEMA France
Contact: Refilwe Tshatsinde Refilwe.Tshatsinde@astronenergy.co.za
Value: 11,000.00 €
Start Date: June 2020
Completion: July 2020
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: Outage Support (KB124) - Valves, Headwork, Steam Generator and Primary Pumps
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: TBC
Start Date: September 2019
Completion: December 2019
Description: Maintenance Support during Outage KB124 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance; Visual Inspection



Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)
Location: Angra 1 Nuclear Power Station, Brazil
Client: Framatome GmbH
Contact: Oliver Birthelmer oliver.birthelmer@framatome.com
Value: TBC
Start Date: TBC
Completion: January 2020
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and TV Inspection / Foreign Object Search and Retrieval



Project: Outage Support (RO16) - Valves and Primary Pumps
Location: Sizewell B Nuclear Power Station, UK
Client: Framatome SAS
Contact: TBC
Value: TBC
Start Date: May 2019
Completion: July 2019
Description: Maintenance Support during Outage RO16 on Valve Maintenance and Primary Pump Maintenance



Project: Steam Generator Sludge Lancing and TV Inspection (FOSAR)
Location: Borssele Nuclear Power Station, Netherlands
Client: Framatome GmbH
Contact: Florian Lunz florian.lunz@framatome.com
Value: TBC
Start Date: May 2019
Completion: June 2019
Description: High Pressure Cleaning of Steam Generator Secondary Side (above Tube Sheet) and TV Inspection / Foreign Object Search and Retrieval



Project: DMDS Dosing
Location: Star Izmit Refinery, Turkey
Client: ARKEMA France
Contact: Christophe Coyer christophe.coyer@arkema.com
Value: 20,000.00 €
Start Date: January 2019
Completion: February 2019
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: DMDS Dosing
Location: Astrom Refinery, Cape Town, South Africa
Client: ARKEMA France
Contact: Refilwe Tshatsinde
Value: 17,000.00 €
Start Date: February 2019
Completion: March 2019
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: DMDS Dosing
Location: Star Izmit Refinery, Turkey
Client: ARKEMA France
Contact: Jean-Laurent Salesse jean-laurent.salesse@arkema.com
Value: 32,000.00 €
Start Date: November 2018
Completion: December 2018
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: Outage Support (KB223) - Valves, Headwork, Steam Generator and Primary Pumps

Location: Koeberg Nuclear Power Station, South Africa

Client: Framatome SAS

Contact: Thomas Feugas thomas.feugas@framatome.com

Value: TBC

Start Date: September 2018

Completion: December 2018

Description: Maintenance Support during Outage KB223 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance



Project: DMDS Dosing

Location: Mol Szazhalombatta Refinery, Hungary

Client: ARKEMA France

Contact: Peter van Goethem peter.van-goethem@arkema.com

Value: 13,500.00 €

Start Date: TBC

Completion: May 2018

Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Carelflex® service.



Project: Reactor Fuel Handling

Location: St Lucie Nuclear Power Station, Florida, USA

Client: Framatome Inc.

Contact: TBC

Value: TBC

Start Date: August 2018

Completion: September 2018

Description: Reactor Fuel handling activities



Project: DMDS Dosing

Location: Unipetrol Refinery, Czech Republic

Client: ARKEMA France

Contact: Cristian Negura cristian.negura@arkema.com

Value: 10,500.00 €

Start Date: TBC

Completion: May 2018

Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Carelflex® service.



Project: Reactor Fuel Handling
Location: St Lucie Nuclear Power Station, Florida, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: March 2018
Completion: April 2018
Description: Reactor Fuel handling activities



Project: DMDS Dosing
Location: Chevron (Astron) Refinery, Cape Town, South Africa
Client: ARKEMA France
Contact: Refilwe Tshatsinde Refilwe.Tshatsinde@astronenergy.co.za
Value: 17,500.00 €
Start Date: February 2018
Completion: March 2018
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Carelflex® service.



Project: Outage Support (KB123) - Valves, Headwork, Steam Generator and Primary Pumps
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: TBC
Start Date: February 2018
Completion: May 2018
Description: Maintenance Support during Outage KB123 on Valve Maintenance, Opening and Closing of Reactor Head, Steam Generator Maintenance and Primary Pump Maintenance



Project: Fresh Fuel Reception
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: TBC
Start Date: November 2017
Completion: January 2018
Description: Offload of Fresh Fuel and storage in Fuel Building storage racks



Project: Outage Support (RO15) - Valves and Primary Pumps
Location: Sizewell B Nuclear Power Station, UK
Client: Framatome SAS
Contact: TBC
Value: TBC
Start Date: November 2017
Completion: December 2017
Description: Maintenance Support during Outage RO15 on Valve Maintenance and Primary Pump Maintenance



Project: Reactor Fuel Handling
Location: Salem Nuclear Power Station, New Jersey, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: October 2017
Completion: November 2017
Description: Reactor Fuel handling activities



Project: DMDS Dosing
Location: Engen Refinery, Durban, South Africa
Client: ARKEMA France
Contact: Christophe Coyer christophe.coyer@arkema.com
Value: 7,000.00 €
Start Date: November 2017
Completion: December 2017
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: Reactor Fuel Handling
Location: Turkey Point Nuclear Power Station, Florida, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: September 2017
Completion: October 2017
Description: Reactor Fuel handling activities



Project: Reactor Fuel Handling
Location: Three Mile Island Nuclear Power Station, Pennsylvania, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: September 2017
Completion: October 2017
Description: Reactor Fuel handling activities



Project: DMDS Dosing
Location: BP Lingen Refinery, Germany
Client: ARKEMA France
Contact: Cees Grinwis cees.grinwis@arkema.com
Value: 35,000.00 €
Start Date: TBC
Completion: June 2017
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Carelflex® service.



Project: DMDS Dosing
Location: Statoil Refinery, Norway
Client: ARKEMA France
Contact: Cees Grinwis cees.grinwis@arkema.com
Value: 12,000.00 €
Start Date: TBC
Completion: July 2017
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Carelflex® service.



Project: Outage Support (KB222) - Valves, Headwork, Fuel Handling, Steam Generator and Primary Pumps
Location: Koeberg Nuclear Power Station, South Africa
Client: Framatome SAS
Contact: Thomas Feugas thomas.feugas@framatome.com
Value: TBC
Start Date: April 2017
Completion: May 2017
Description: Maintenance Support during Outage KB222 on Valve Maintenance, Opening and Closing of Reactor Head, Fuel handling, Steam Generator Maintenance and Primary Pump



Project: Reactor Fuel Handling
Location: Salem Nuclear Power Station, New Jersey, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: April 2017
Completion: May 2017
Description: Reactor Fuel handling activities



Project: Reactor Fuel Handling
Location: Turkey Point Nuclear Power Station, Florida, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: TBC
Completion: March 2017
Description: Reactor Fuel handling activities



Project: DMDS Dosing
Location: Gunvor Refinery, Germany
Client: ARKEMA France
Contact: Cees Grinwis cees.grinwis@arkema.com
Value: 14,500.00 €
Start Date: April 2017
Completion: TBC
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in steam-cracking coils by utilizing the Careflex® service.



Project: DMDS Dosing
Location: Chevron Refinery, Cape Town, South Africa
Client: ARKEMA France
Contact: Refilwe Tshatsinde Refilwe.Tshatsinde@astronenergy.co.za
Value: 17,000.00 €
Start Date: March 2017
Completion: TBC
Description: Dosing of DMDS Evolution® E2 (Dimethyl Disulfide) into reformers as a sulfiding agent to activate catalysts for hydrodesulfurization and to inhibit coke (carbon) formation in



Project: Reactor Fuel Handling
Location: St Lucie Nuclear Power Station, Florida, USA
Client: Framatome Inc.
Contact: TBC
Value: TBC
Start Date: February 2017
Completion: March 2017
Description: Reactor Fuel handling activities





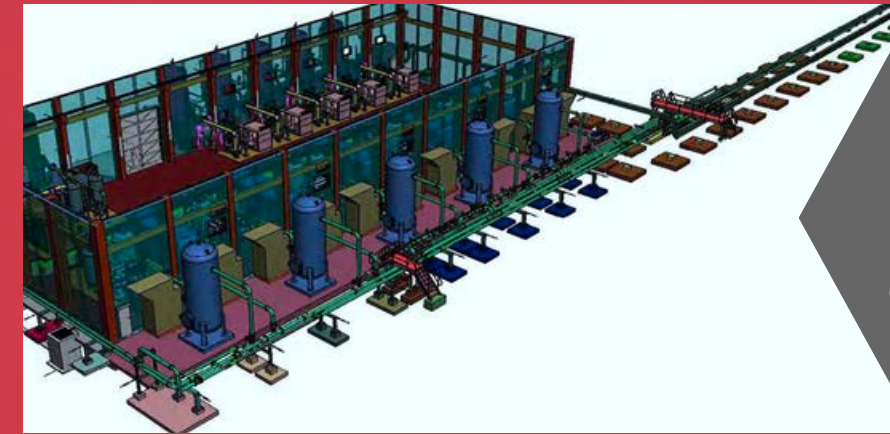
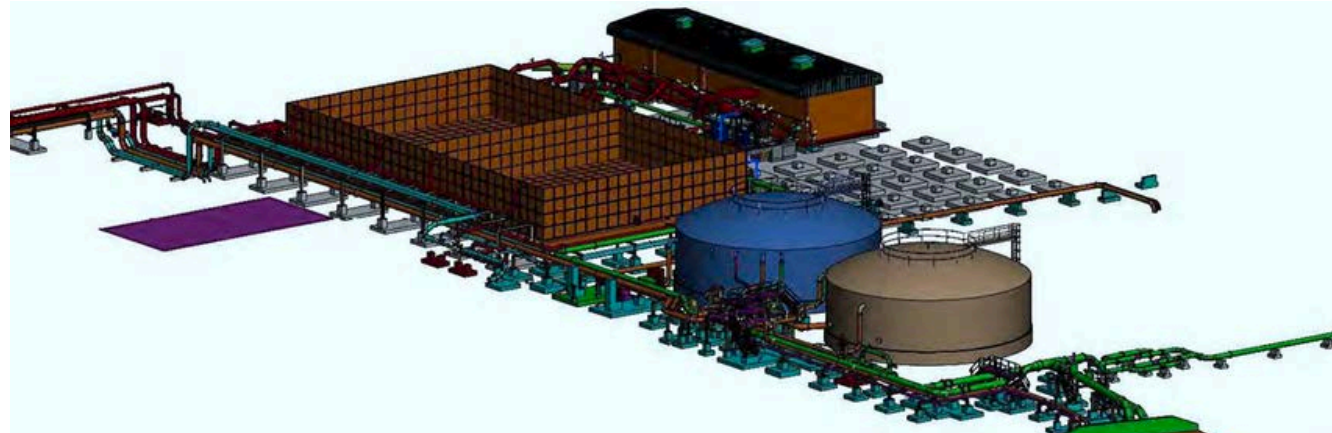
LESEDI
ENERGY ENGINEERING

ADDITIONAL
PROJECTS



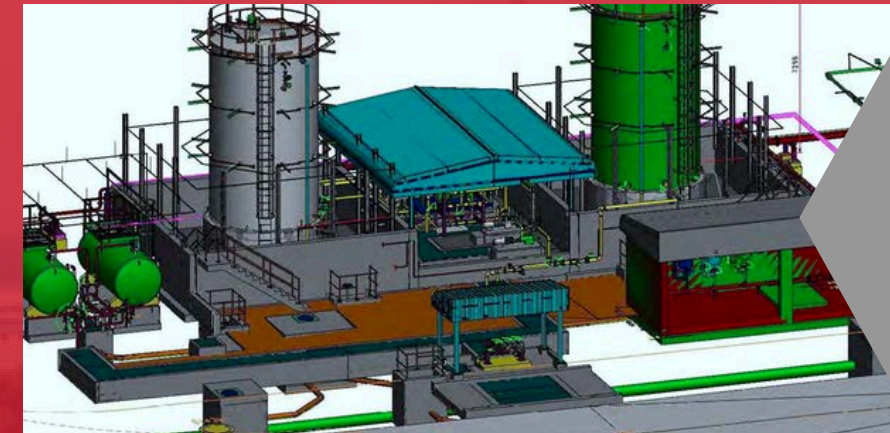
Water Treatment Plant

Water Treatment Plant Tanks, Pumps, Pump House, Racks and Piping for Fire Water, CDD, Diesel Supply and other Water Reticulation Systems Including All Structural Supports and Road Crossings



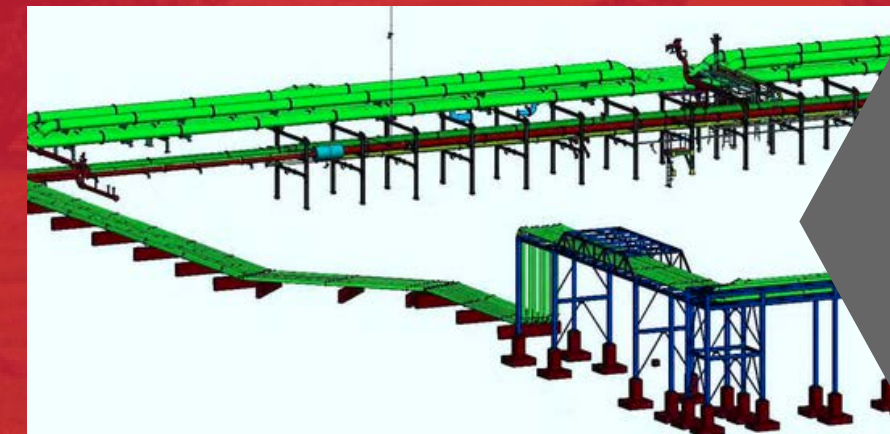
Compressed Air Plant

Compressor House with Compressed Air System Equipment Design, and Civil and Structural Supports, Including Pipe Racks to the Power Station Units.

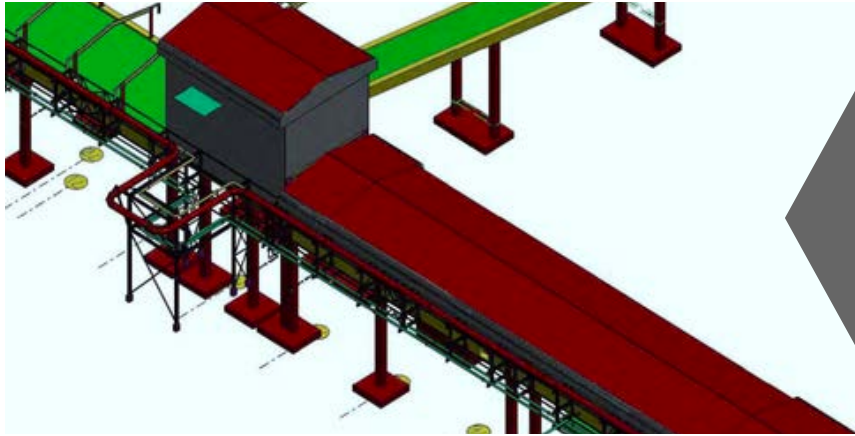


Lube Oil Plant

Turbine Lube Oil, Dirty and Used Oil and Fire Protection Piping, Supports, Racks, Civil work, and Tanks



Pipe Racks Between Plants



Conveyor Systems

Elevated Transverse Ash Conveyor Fire Protection Water Piping and Belt Washing Water Piping.



Fire Protection System



Valve Chamber Construction

Large Diameter Water piping valve chamber and tunnelling under construction.



50MW Gas Turbine Installation



50MW Gas Turbine Installation



Gas1 Turbine Hall Structural Steel Erection



Gas1 Turbine Hall Structural Steel Erection



Gas1 Turbine Hall Cladding Erection



Gas1 Turbine Hall Cladding Erection



Siemens Piping Installation



Siemens Piping Installed on Supports



Gas1 Diesel Truck Off-Loading Stations



Overland Fuel Pipeline



Fuel Pipeline Road Crossing



Piping Spring Hanger Support



Overland Pipe Supports



Fuel Piping Under Construction



Fuel Piping Ready for Hand Over



MCC Cabinet Installation



MCC Cabinets Ready for Handover



Cable Installation in The MCC Room



Cable Installation in the Cable Trench



Bund Area Fire Foam System



Transformer Fire Water Spray Test



Bund Area Fire Foam Pourers



Diesel Fire Water Pump



Fire Water Storage Tank



Fire Pump House and Piping



Fire Pump House

Projects During Construction



Electric Fire Water Pump

Notes



- Lesedi is currently addressing petrochemical storage facilities and has already compiled the concept design for a number of these Projects.
- Lesedi has extensive experience with fuel storage facility Projects having worked for Engen, Total and Eskom. Lesedi is an approved vendor for Sasol, Eskom, Engen, Total and PetroSA.
- Lesedi is experienced in both EPC and EPCm contracts and hence in addition to design expertise, Lesedi also brings to the Project the value of having executed turnkey contracts which ensures that designs are professional, practical, and cost effective.

Lesedi is a service provider and/or contractor for the following companies:



ENERGY ENGINEERING EMPOWERING PEOPLE

 +27 21 525 1300  +27 21 525 1333

 @lesedins  @LesediNS

 lesedi@lesedins.co.za  www.lesedins.co.za

 **Head Office:** 12 Edison Way Century Gate, Century City, 7441, Cape Town, South Africa
Johannesburg Office: Wild Olive Building (1st Floor), 262 Rose Avenue, 0157,
Centurion, Johannesburg, South Africa

