



LESEDI
ENERGY ENGINEERING

OIL, GAS & POWER (OGP) DIVISION



OIL



GAS



POWER

www.lesedins.co.za

TRUSTED EPC & EPCm SOLUTIONS ACROSS AFRICA

Lesedi is a leading African engineering, procurement, and construction (EPC and EPCm) company with a proven track record across nuclear, industrial power, mining, and oil & gas sectors.

We deliver **integrated, end-to-end project solutions** – from design to execution – tailored to meet complex client requirements. As a multidisciplinary EPC and EPCm contractor, Lesedi offers comprehensive services including engineering design, procurement, construction, and project management.

Our reputation is built on professionalism, safety, quality, and environmental responsibility – the essential pillars of every project we undertake.

We build trust by engineering solutions that deliver quality to expectation.

TURNKEY EPC DELIVERY

From concept to commissioning – Lesedi delivers integrated EPC solutions with precision and professionalism.

Our **turnkey Engineering, Procurement, and Construction (EPC)** services ensure seamless coordination, technical excellence, and on-time project execution. We take full accountability across all project phases, enabling clients to focus on operations while we manage the complexity.

We utilise state-of-the-art software to model, design, and develop solutions that optimise engineering time and streamline site activities.

OUR EPC OFFERING INCLUDES:

- Project & Contract Management
- Conceptual, Basic & Detailed Engineering (Process, Mechanical, Piping, Fire, Civil, Structural, Control and Instrumentation, Electrical - MV & LV)
- Control & Instrumentation Systems
- Building Architecture
- Integrated 3D Plant Modeling (Aveva and Autodesk Plant 3D)
- Procurement & Logistics
- Construction Management
- Quantity Surveying
- SHEQ Management
- Configuration Management
- Commissioning
- O&M Manuals and Operator Training

Lesedi delivers certainty in scope, schedule, and standards.

Lesedi supports plant owners in delivering capital projects through expert-driven Engineering, Procurement, and Construction Management (EPCm) services – from early concept to final handover.

Providing professional services as the Owner's Engineer.

Our EPCm model is designed to offer clients **flexibility, transparency, and control**, while we manage complexity and technical delivery. We integrate seamlessly into owner teams to plan, design, coordinate, and oversee every project phase with precision and accountability.

OUR EPCM OFFERING INCLUDES:

- Independent design reviews
- Compliance checks
- Constructability reviews
- Business Plan Development (FEL-1)
- Concept Plan Development (FEL-2)
- Front-End Engineering & Design (FEED)
- Multidisciplinary Engineering (Process, Mechanical, Piping, Fire, Civil, Structural, Electrical, Control & Instrumentation)
- Procurement Planning & Expediting
- Construction Supervision
- Project Controls (Schedule, Cost, Risk)
- Contract & Commercial Support
- Commissioning Support

ENSURING OPERATIONAL READINESS:

- Commissioning strategy review
- Performance testing
- Final documentation
- Claims management

STRATEGIC PROCUREMENT ASSISTANCE:

- Tender document preparation
- Bid evaluations
- Contract strategy
- Vender audits

ON-SITE OVERSIGHT AND ASSURANCE:

- Site supervision
- HSE audits
- Progress reporting
- Interface management

Lesedi brings structure, visibility, and expert governance to every stage of capital project development.



SPECIALISED ENGINEERING EXPERTISE

Lesedi offers **advanced, niche engineering services** tailored to high-performance industrial environments.

Our specialised capabilities support technically demanding applications, from gas turbine integration to fire protection design – delivering efficiency, safety, and control in mission-critical systems.

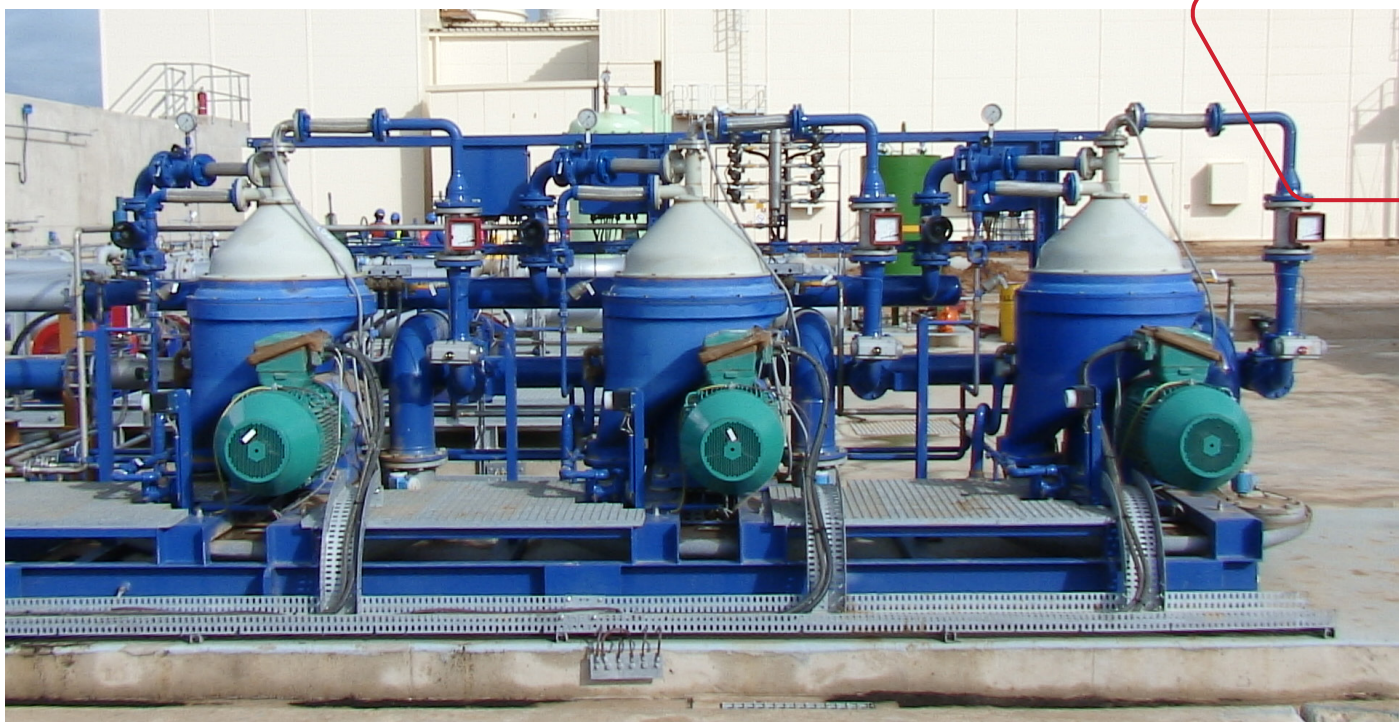
OUR NICHE EXPERTISE INCLUDES:

- **Fire Engineering:** Fire Protection and detection systems
- **Gas Turbine DCS Integration:** Centralised control and plant efficiency
- **Open Cycle Gas Turbine (OCGT) Systems:** Fuel storage, offloading, conditioning, filtering, and forwarding
- **Combined Cycle Gas Turbine (CCGT):** Process Integration and Balance of Plant (BOP) Flow Sheet Development
- **Gas Turbine Co-generation (Combined Heat & Power):** Process optimisation and plant integration
- Gas Turbine Selection, Step-Load & Transient Analysis
- **Greenfields Power Station:** BOP Design and Integration
- **Brownfields Power Generation:** Modifications, upgrades and extensions
- **API 653 Fuel Storage Tanks:** Inspections, maintenance and repair projects

We engineer precision into complex systems – ensuring safety, reliability, and seamless integration.



OCGT Atlantis Fuel Filters



OCGT Mossel Bay Fuel Treatment Plant 1

PROVEN SECTOR EXPERIENCE

Lesedi delivers **high-impact energy** and **industrial infrastructure across Africa** – from large-scale EPC installations to front-end engineering development studies.

With over 2,000 MWe of Open Cycle Gas Turbine (OCGT) installations in South Africa alone – representing two-thirds of the national OCGT base – Lesedi is a trusted execution partner in power generation and industrial engineering.

FLAGSHIP EPC PROJECTS:

- Ankerlig 2 OCGT Power Station (9 x 150MWe Siemens Gas Turbines)
- Ankerlig 3 OCGT Power Station (3 x 30MWe GE Gas Turbines)
- Gourikwa OCGT Power Station (5 x 150MWe Siemens Gas Turbines)
- Medupi Power Station - Auxiliary cooling system and 17 BOP systems for a 4800MWe coal fired power station

NOTABLE EPCM PROJECTS:

- Transnet Port Authorities (TNPA) mobile OCGT Power Stations (2 x 22MWe GE Gas Turbines)
- Fuel storage facilities across Africa (FEL-1, FEL-2, FEED, inspection, repair, testing & commissioning)
- Front-end engineering studies for gas turbine co-generation (combined heat & power) in ceramic and cleaning product industries

Our experience spans concept development to turnkey delivery – across energy, industrial, and infrastructure sectors.



Gas1 Atlantis Fuel Tank Bund Foam Pourers

WHAT SETS LESEDI APART

Lesedi delivers **trusted, end-to-end, integrated solutions** with the depth of experience and technical strength to handle complex capital projects across Africa.

OUR DIFFERENTIATORS:

- **Proven Track Record:** 2,000+ MWe OCGT installed capacity
- **Specialist Expertise:** Gas turbines, fire engineering, process integration
- **Advanced Control Systems:** DeltaV distributed control system (DCS) integration with Mark VI DCS
- **Complex Engineering Integration:** Large scale bespoke Greenfields projects, including plant wide auxiliaries design, procurement and construction for a 4800MWe coal-fired power station
- **Full Lifecycle Capability:** FEL, FEED, execution, commissioning, training
- **Client-Centric Approach:** Flexible EPCm integration with owner teams
- **Safety & Quality Commitment:** Embedded SHEQ systems
- **Pan-African Reach:** Project experience across the continent

We build trust by consistently delivering quality – from concept to completion.

Driving integrated project solutions across Africa

OGP LEADERSHIP TEAM:

- **Corné Welgemoed** - Executive Manager: Oil, Gas & Power
- **Gerard du Plessis** - Senior Manager: Engineering: Oil, Gas & Power
- **Arno Bakker** - Senior Manager: Project Development: Oil, Gas & Power

Our leadership team brings technical depth, execution experience, and client focus to every engagement.





LESEDI
ENERGY ENGINEERING

LEADERS IN INDUSTRY

GET IN TOUCH

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