



**petroENG**  
PETROLEUM ENGINEERING

PetroENG was established in 2013, following the acquisition and expansion of Bevlon Petroleum Maintenance & Installations. Bevlon had operated since 1982, providing petroleum installation and maintenance services to clients including Engen, BP Southern Africa, Kansai Plascon, UCT, and the South African Air Force.



## **Our Story – Building with Purpose**

Legacy, direction, and growth

## **Vision, Mission & Values – What Drives Us**

The principles that guide our decisions and define our culture.

## **What We Do Best – Core Services**

Mechanical, civil, tank installations, depots, safety training.

## **Innovation in Action – VR Safety Training**

PetroENG's pioneering approach to safety training.

## **A Proven Track Record – Projects & Case Studies**

Highlights of Engen, BP, MAJ, and Kansai Plascon projects.

## **Safety First, Always – HSEQ**

Health, Safety, Environment & Quality management.

## **Built on Trust – Certifications & Compliance**

Industry accreditations and compliance standards.

## **Leadership & Management Team**

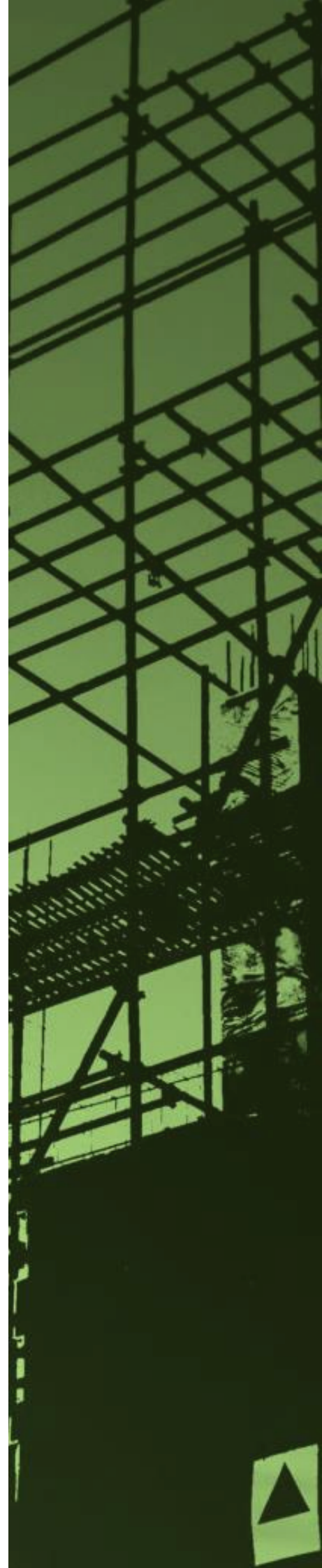
Direction, leadership, and administration.

## **Partnerships & Operational Excellence**

Supplier networks, cost control, and project delivery.

## **Contact Information**

Offices, contact details, and key people.



# Our Story

Building with Purpose





## Legacy, direction, and growth

PetroENG was established in 2013, following the acquisition and expansion of Bevlon Petroleum Maintenance & Installations. Bevlon had operated since 1982, providing petroleum installation and maintenance services to clients including Engen, Total, international data centres, BP Southern Africa, Kansai Plascon, UCT, the South African Air Force, as well as private locally branded fuel distributors and chemical distributors.

When Pierre Janse van Rensburg acquired Bevlon in 2008, the company was restructured to meet growing industry requirements. In 2013, the engineering division was separated and PetroENG was created as a dedicated petroleum engineering firm.

## **People and Training**

The company recognises people as its core strength. PetroENG invests in the recruitment, training, and development of skilled artisans, welders, and technicians. Ongoing training initiatives, including personal development programmes and on-site mentoring, are central to the company's culture. The objective is to ensure teams are accountable, equipped, and able to deliver work that consistently meets the highest safety and quality standards.

## **Leadership and Stewardship**

PetroENG is directed by Pierre and Loraine Janse van Rensburg, and Sheeham Lutta. Pierre directs the technical and operational aspects of the business, applying extensive field and engineering experience.

Lorraine manages administration, compliance, and governance, providing the structure and financial discipline that supports operations. The company is a professional, accountable organisation, where leadership acts as custodian of the business and its people.

## **Growth and Operations**

PetroENG's early work focused on forecourt rebuilds, depot upgrades, and fuel pipeline projects. Expansion into additional service areas, including marine-related works, significantly improved profitability and capacity. Over time, the company has extended its footprint to include tank farm refurbishments, depot pipelines, civil works, and containment structures. Today PetroENG delivers projects nationwide, supporting both retail and bulk operators with safe, compliant, and durable infrastructure.

# Vision, Mission & Values

What Drives Us



# The principles that guide our decisions and define our culture

## Vision

Safety is a core principle in everything we do. We lead with proactive risk management, rigorous planning and accountable behaviours at every level of the organisation. Through continuous learning, advanced simulations and immersive VR training, our teams are equipped to work safely, protect one another and uphold the highest global standards in every environment we operate.

## Mission

Our mission is to engineer fit-for-purpose petroleum infrastructure with uncompromising attention to safety, compliance, and quality. We achieve this by applying technical expertise, leveraging decades of industry experience, and continually investing in people and systems. Every project is approached with the goal of ensuring client confidence, operational efficiency, and long-term value.

## Values

- Safety Excellence
- Accountability
- Quality
- People
- Partnership
- Innovation



# A deeper look at our values

## Safety First

Safety is at the centre of everything we do. From site briefings and audits to cutting-edge VR training, our teams are equipped to work responsibly, protecting themselves, their colleagues, and the communities where we operate.

## Accountability

We believe that accountability creates trust. Our teams take ownership of their work and responsibilities, ensuring that projects are delivered on time, on budget, and in line with industry regulations.

## Quality

Our reputation is built on workmanship that endures. Whether fabricating pipelines, installing storage tanks, or upgrading depots, we focus on long-term reliability and measurable standards of excellence.

## People

PetroENG is powered by its people. We prioritise training, mentorship, and personal development to ensure every employee is equipped to perform at their best. Our culture recognises staff not just as employees, but as essential contributors to PetroENG's success.

## Partnerships

We value transparent, reliable relationships with clients, suppliers, and stakeholders. By fostering collaboration, we ensure that every project reflects shared goals and mutual trust.

## Innovation

We embrace technologies and processes that improve outcomes. From adopting Virtual Reality (VR) safety training to modernising project systems, we continuously seek better ways to engineer safer, faster, and more efficient solutions.



# What We Do Best

Core Services



# Core Services

PetroENG specialises in petroleum infrastructure projects that demand technical excellence, uncompromising safety, and reliable delivery. Our services cover the full project lifecycle - from design and fabrication to installation, commissioning, and ongoing maintenance.



## Mechanical & Pipeline Fabrication

- Custom pipeline design and fabrication
- Pressure testing and integrity verification
- Aboveground and underground fuel piping systems



## Electrical & Integrated Systems\*

- Electrical reticulation (delivered in partnership with trusted specialists)
- Integration of pumps, pipelines, and monitoring systems
- Commissioning and compliance testing



## Tank Installation & Maintenance

- Installation of underground and aboveground storage tanks
- Refurbishment and restoration of tank farms
- Bund wall and containment structure construction



## Depot Upgrades & Maintenance

- Full depot refurbishments and expansions
- Long-term maintenance contracts to ensure reliability
- Asset life-extension strategies for petroleum operators



## Civil Construction & Forecourt Rebuilds

- Service station forecourt upgrades and full rebuilds
- Depot civil works, including excavation and foundations
- Structural concrete, brickwork, and banded containment



## Higher Safety Training Programmes

- Site-specific safety modules for petroleum environments
- Hazard awareness and fall-arrest training
- Emergency readiness and PPE compliance drills



## Fire Safety & Environmental Systems

- Fire detection and suppression installations
- Spill containment and emergency response systems
- Environmental remediation and compliance support



## VR Safety Training Solutions

- Immersive simulations of real-world petroleum site hazards
- Scenarios include scaffold access, ladder drills, catwalk navigation, and rescue response
- Improves knowledge retention, reduces incident rates, and builds client confidence

\* In partnership with specialists

# Innovation in Action

VR Safety Training



# Pioneering approach to safety training



**At PetroENG, safety has always been non-negotiable.**

To strengthen this commitment, we have pioneered the use of **Virtual Reality (VR) safety training** within the South African petroleum sector - a first of its kind in our industry.

## Why VR

Traditional safety training can only go so far in preparing teams for real-world risks. VR allows employees to immerse themselves in lifelike, high-risk scenarios without the danger. This approach improves knowledge retention, builds confidence, and reduces incidents on site.

## Core Modules

Our VR training curriculum simulates critical petroleum worksite environments, including 6 core modules

## Benefits for Clients

Independent studies show that VR safety training:

- Improves retention by up to 75% compared to classroom training.
- Reduces incident rates by up to 45%.
- Cuts onboarding time by 30-40%, ensuring faster project readiness.

# Six Core Training Modules

01

## **Scaffold Access & Harness Tethering:**

Correct PPE use and safe climbing practices.

02

## **Ladder Climb & Fall-Arrest Drills:**

Safe navigation under risk conditions.

03

## **Catwalk Navigation:**

Working at heights with scaffold, unsecured tools, and wind.

04

## **Rescue & Emergency Simulation:**

Time-based responses to fall incidents.

05

## **Safety Audit Mode:**

Identifying non-compliance and unsafe behaviours.

06

## **Team Collaboration:**

Multi-user training that promotes communication and shared risk awareness.

# Integration & Scalability

## Hardware:

Optimised for Meta Quest 2/3 headsets with desktop fallback.

## Systems:

Integrated with Learning Management Systems (LMS) for tracking performance and compliance.

## Commercial Options:

Available as per-user licensing, subscription packages, or turnkey deployments for major operators.

# A Proven Track Record

Projects & Case Studies



\* Please see Our Work section for more detailed case studies

# Clients we have served

For over a decade, PetroENG has delivered petroleum infrastructure projects across South Africa, supporting both retail fuel operators and bulk depot facilities. Our track record reflects technical capability, adherence to safety, and reliable delivery for industry-leading clients.



# Featured Projects

## Comprehensive Tank Refurbishment

Engen TK 1444, East London

PetroENG delivered full-scope refurbishment and API compliance upgrade for Tank 1444, including structural, mechanical, piping, and safety enhancements over a 217-day execution period in 2023.



## Safe & Compliant Above Ground Diesel Storage Installation

ATS Transport

In 2023, PetroENG delivered a turnkey installation of an 80,000L above-ground diesel tank for ATS Transport, including civil, mechanical, and installation works.



## New Retail Service Station in 12 Weeks

Engen Worcester Circle

PetroENG delivered a turnkey installation of a new Engen and Kaap Agric service station at Worcester Circle, completing full civil, mechanical, and environmental works in 2023, in just 12 weeks.



# Highlights and projects

## Retail Forecourt Rebuilds & Upgrades

We deliver complete service station forecourt upgrades across South Africa, ensuring full compliance with Construction Health & Safety regulations, environmental standards, and client specifications. Each project is executed to achieve durable, safe, and high-performing results.

## Depot Pipeline & Storage Projects

Our team handles tank farm refurbishments, pipeline fabrication, and pressure testing for petroleum operators, including Engen and BP. We also construct containment bund walls and civil works for depot expansions, ensuring reliable, compliant, and long-lasting infrastructure.

## Civil & Structural Works

We execute full forecourt rebuilds for major petroleum brands, covering excavation, foundations, and structural concrete. Our civil engineering solutions support depots requiring high-capacity storage upgrades, prioritising precision, compliance, and structural integrity.

## Marine & Specialised Projects

We integrate petroleum systems into coastal and marine environments, expanding PetroENG's technical expertise. Our team provides custom pipeline fabrication and pressure testing for coastal depots, ensuring reliability and compliance in demanding conditions.

## Corrosion Protection

We deliver corrosion protection solutions for tanks, pipelines, and structural steel across petroleum facilities. Our coatings and treatment systems are selected to suit site conditions, helping extend asset life while maintaining safety, compliance, and long-term performance.

## Safety Training & VR Innovation (New)

We've launched advanced safety programmes and immersive VR training modules that simulate real-site scenarios, including scaffold access, ladder drills, and rescue operations. Early trials show higher knowledge retention, fewer incidents, and faster onboarding for workers.



# Safety First, Always

Our HSEQ Commitment



# Health, Safety, Environment, & Quality Management

## Our Commitment

At PetroENG, Health, Safety, Environment, and Quality (HSEQ) are the foundation of how we operate. From forecourt rebuilds to major depot expansions, every project is delivered under a no-compromise framework that protects people, safeguards the environment, and ensures long-term asset reliability.

## Management Systems

PetroENG maintains a fully integrated HSEQ Management System aligned with South African regulations and international best practice.

We have been audited by leading petroleum operators (Engen, BP, and others) and consistently meet or exceed client HSEQ standards.



## Quality

- Adherence to ASME IX welding standards and API specifications.
- Independent pressure testing, inspections, audits.
- Continuous improvement through lessons learned and staff training.
- Strong supplier and material vetting to ensure long-term durability.
- Corrosion protection systems applied and verified for long-term asset integrity and performance.

## Health & Safety

- Zero-harm culture: every employee and contractor is responsible for safety.
- Compliance with Occupational Health and Safety Act, Construction Regulations, and industry codes.
- Mandatory site briefings, toolbox talks, and risk assessments.
- Incident reporting, investigation, and corrective actions embedded in daily operations.

## Environment

- Waste management and hazardous material handling aligned with national standards.
- Bunded tank installations and spill containment to protect soil and water.
- Proactive monitoring of environmental impact during construction and decommissioning.
- Commitment to sustainability practices, including remediation and resource efficiency.

# Quality & HSEQ Policy

PetroENG is committed to excellence in Health, Safety, Environment and Quality across all our operations. To achieve this, we commit to:

01

Safeguarding people and communities by promoting and maintaining health, safety, and wellbeing at every workplace.

02

Protecting the environment through proactive conservation and responsible use of natural resources.

03

Maintaining our assets and operations to ensure integrity and minimise risks.

04

Delivering exceptional services that meet or exceed customer expectations

05

Complying with all applicable laws and applying responsible standards where laws do not exist.

06

Driving continual improvement in HSEQ performance through clear objectives, measurable targets and regular performance reviews.

07

Ensuring readiness for emergencies with robust contingency and response plans.

08

Fostering accountability by promoting individual and collective responsibility for policies, procedures, and safe practices.

# Health, Safety, Environment, & Quality Management

## HSEQ Organisational Structure



# Built on Trust

Certifications & Compliance



# Industry Accreditations & Compliance Standards

**PetroENG's credibility is built on a proven record of compliance with the highest industry standards.**

We hold the accreditations and approvals necessary to operate in the petroleum, civil, and construction sectors, ensuring every project is delivered safely, responsibly, and in full regulatory alignment.



Engen Petroleum Accreditation



BP Southern Africa Accreditation



TotalEnergies South Africa Accreditation



environmental affairs  
Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Waste Transporter License



employment & labour  
Department:  
Employment and Labour  
REPUBLIC OF SOUTH AFRICA

Construction Notices



Entrance & Operations Permit



AVETTA Consortium License

Construction Industry Standards and Occupational Health & Safety Act Compliance

Waste Management Authorisation and HAZCHEM Transporter Licence

ComplyWorks system

Hazardous Chemical Substances Regulations Compliance



## Compliance Framework

**PetroENG operates within a robust compliance framework to ensure excellence, safety, and reliability in all our operations:**

- All worksites strictly adhere to Occupational Health and Safety Act and Environmental regulations
- Staff and subcontractors are fully trained, certified and competent to operate safely in petroleum and high-risk environments.
- Every project meets client-specific requirements in addition to all statutory obligations.
- Continuous audits and inspections ,and performance reviews confirm adherence to legal, contractual and industry standards.

## Broad-Based Black Economic Empowerment

PetroENG is a Level 1 BBBEE Contributor, demonstrating our commitment to transformation, local empowerment, and inclusive industry growth.

## Why it Matters

For our clients, these certifications and compliance practices deliver:

- Confidence in a partner that consistently meets legal, regulatory and industry standards.
- Reduced project risk through proven governance, oversight and quality control.
- Assurance that health, safety, environmental and quality standards are rigorously applied across every project.

# Leadership and Management Team

Direction, leadership, & administration



# Leadership & Strategic Direction



**Pierre Janse van Rensburg**

*Managing Director  
HSEQ Chair*

Responsible for technical and operational oversight, client relationships, and strategic growth.



**Pierre Janse van Rensburg Jnr**

*Operations Manager*



**Loraine Janse van Rensburg**

*Financial Director*

Oversees administration, compliance, and financial governance, ensuring structure and transparency.



**Denver Davids**

*Project Manager*



**Shehaam Lutta**

*Director  
Account Controller*

Oversees administration, compliance, and financial governance, ensuring structure and transparency.



**James Mandevere**

HSEQ

# Leadership Principles

**PetroENG's leadership is guided by:**

1. Accountability: Every leader takes ownership of delivery and safety.
2. People Development: Mentorship and training to strengthen teams.
3. Integrity: Transparent governance and compliance.
4. Safety Leadership: Zero-harm commitment embedded in all roles.

# Management Structure

PetroENG's management team provides oversight across all operational and support functions.

## Executive Management

### Operations & Mechanical Projects

- Tank Installations
- Tank Lifting
- Pipeline Manufacturing
- Depot Mechanical Works
- Corrosion Protection

### Civils & Engineering

- Excavations & Earthworks
- Concrete Works
- Bund Wall Construction
- Brick & Stone Works
- Civil Supervisors

### HSEQ

- HSEQ Officers
- HSE Representatives
- First Aiders

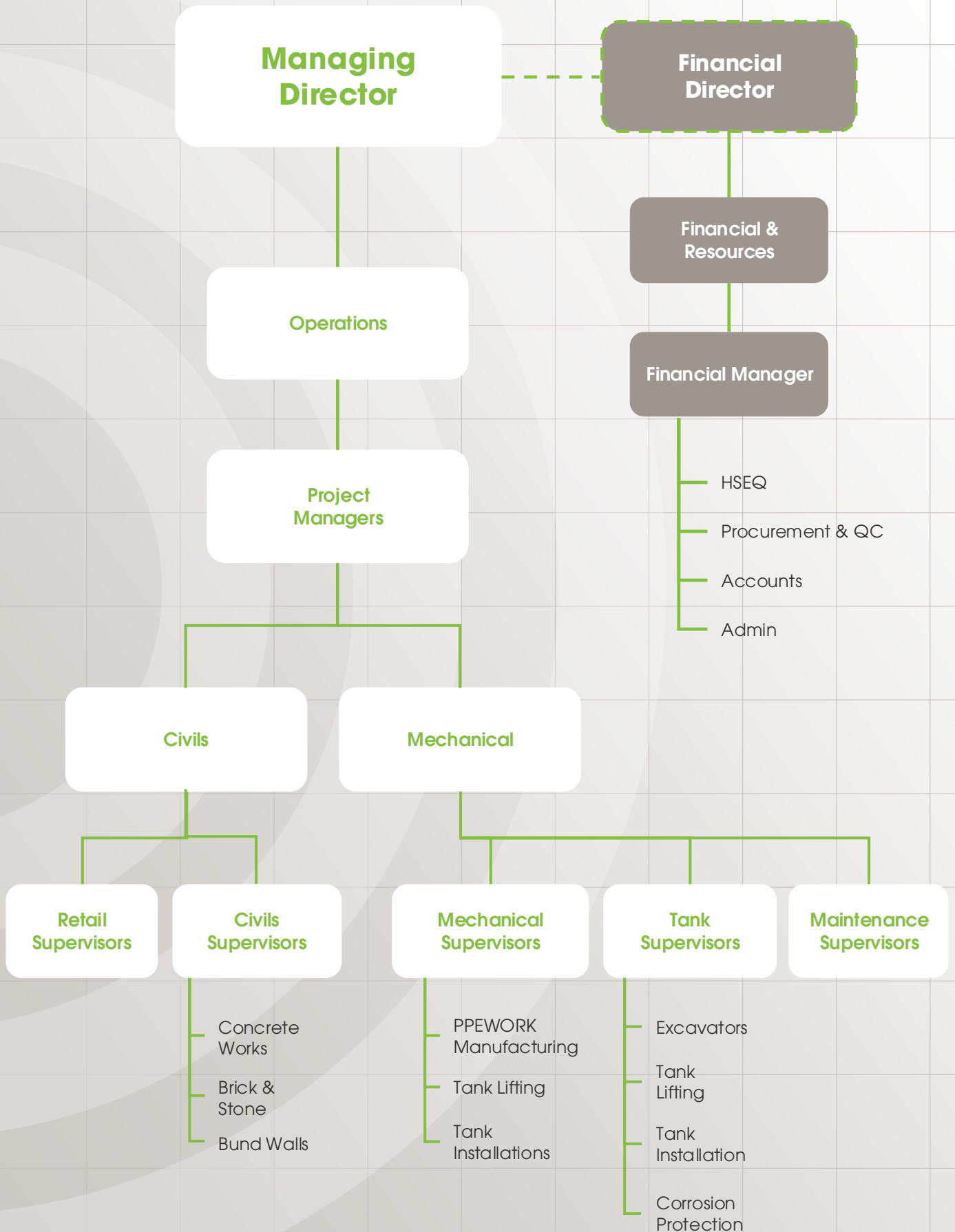
### Procurement & QC

- Supplier and material vetting
- Accounts and cost control

### Finance & Administration

- Accounts
- Admin Support

# Management Structure



# Partnerships and Operational Excellence

Supplier networks, cost control,  
and project delivery



## Supplier Networks



PetroENG works with a trusted network of suppliers and subcontractors, each vetted to ensure compliance with industry standards, material quality, and cost efficiency. This network enables PetroENG to:

- Secure reliable access to tanks, pipelines, and civil materials.
- Ensure rapid turnaround on critical project components.
- Deliver consistent quality across all project sites.

## Cost Control



PetroENG applies disciplined procurement and financial oversight to ensure projects are delivered within budget. Our systems focus on:

- Transparent cost tracking and reporting.
- Competitive supplier benchmarking.
- Continuous review of material efficiency and life-cycle costs.
- Preventing overruns through early risk identification and mitigation.

## Project Delivery



Operational excellence means every project is managed for safety, quality, and efficiency. We achieve this through:

- Experienced project managers and supervisors across all divisions.
- Integrated HSEQ and quality audits at every stage of work.
- Proactive scheduling to minimise downtime and client disruption.
- Commitment to handovers that meet client standards and important regulatory compliance.

## Why it Matters

Our partnerships and operational systems ensure that PetroENG consistently delivers:

- **Reliability** – projects completed on time and within scope.
- **Transparency** – open communication on costs and progress.
- **Confidence** – clients trust PetroENG to deliver safe, compliant, and durable infrastructure.

# Our Work

High Quality Project Delivery



# Comprehensive Tank Refurbishment

## Engen TK 1444, East London

In 2023 PetroENG delivered full-scope refurbishment and API compliance upgrade, including structural, mechanical, piping, and safety enhancements over a 217-day execution period.

Timeline	217 days
Technologies	API 653/650 testing (PMI, X-Ray, UT, PT, MPI, Vacuum Box), Dow Corning 888 sealant, C5 coating system, new fire suppression and piping systems

### The Challenge:

Refurbish Tank 1444 to API 653/650 compliance while addressing extensive corrosion, safety risks, and outdated systems.

### The Solution:

PetroENG delivered tank, piping, structural and electrical refurbishment to API standards:

- Full API 653/650 repairs
- Tank and roof refurbishment with nozzle, manway, and vent upgrades
- New fire suppression system
- Walkway and access structure repairs and fabrication
- Corrosion protection with C5-grade coatings



# Comprehensive Tank Refurbishment

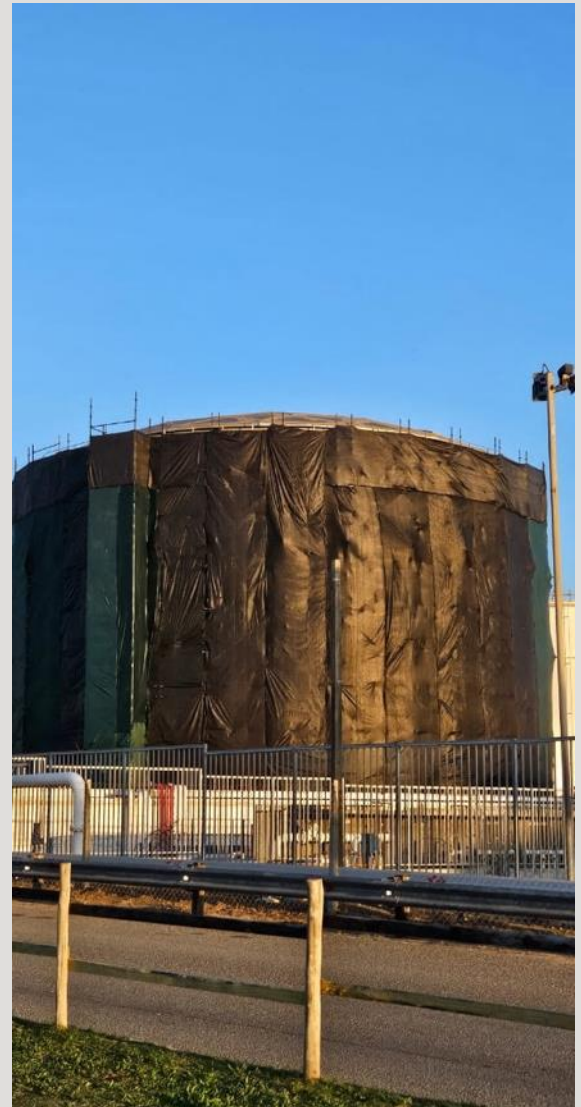
## Engen TK 1444, East London - continued

### Project Snapshot:

- Duration: 217 days on-site
- Integrated tank, piping, structural and electrical scope
- API 653/650 certified inspection and handover

### Results & Impact:

- Restored Tank 1444 to full API 653/650 compliance
- Improved operational safety with upgraded fire suppression and access systems
- Extended tank service life through corrosion protection and structural upgrades
- Enhanced environmental safeguards via compliant repairs
- Delivered full QC documentation and corrosion guarantee for assurance



# Safe and Compliant Above Ground Diesel Storage Installation

ATS Transport

PetroENG delivered a turnkey installation of an 80,000L above-ground diesel tank for ATS Transport in 2023. This included civil, mechanical, and installation works.

Business Value	Secure and compliant bulk fuel storage with reduced environmental and operational risk, ensuring ATS Transport meets regulatory requirements and supports reliable fleet operations.
Technologies	80,000Kl above-ground diesel tank, oil separation tank, fabricated saddles, pump island bollard, pressure-tested piping and fittings
Key Features	HSEQ compliance, spill prevention measures, structural safety enhancements, custom fabrication for site conditions, and improved operational efficiency



## The Challenge:

Provide ATS Transport with a safe and compliant above-ground diesel storage facility, including supporting infrastructure and environmental safeguards.

## The Solution:

PetroENG delivered tank installation and infrastructure works:

- Built bund wall and plinths, with paving post oil separation tank installation
- Manufactured saddles, pump island bollard, and access structures
- Fabricated, installed, and pressure-tested all pipework and fittings
- Installed 80,000L above-ground diesel tank with cat ladder and walkway
- Integrated oil separation tank for environmental protection

# Safe and Compliant Above Ground Diesel Storage Installation

ATS Transport - continued

## Project Snapshot:

- 80,000L above-ground diesel storage tank installed
- Full civil, mechanical, and piping scope executed
- Safety and compliance-focused infrastructure delivered

## Results & Impact:

- Delivered new compliant diesel storage facility for ATS Transport
- Enhanced site safety with bollards, access systems, and structural supports
- Improved environmental protection via bund wall and oil separation tank
- Extended service reliability through pressure-tested piping network
- Turnkey project completed with integrated civil and mechanical works



# Upgraded Retail Fuel Infrastructure

## BP Modacks Site

BP Southern Africa appointed PetroENG to decommission four underground tanks and install four new 23 000 L underground tanks at the BP Modacks retail site. It was completed in 2023.

Business Value	Ensured regulatory compliance, environmental protection, and reliable retail fuel service for BP Modacks site.
Technologies	4 x 23 000 L underground tanks, separator tank, concrete spill slabs, forecourt paving, dispensers, pressure-tested piping network
Key Features	HSEQ compliance, spill containment, forecourt reconstruction, reliable fuel dispensing infrastructure, extended service life



### The Challenge:

Replace non-compliant underground storage, minimising forecourt disruption, ensuring BP Modacks retail operations remain compliant with safety standards.

### The Solution:

PetroENG delivered civil & mechanical works:

- Decommissioned 4 old underground tanks
- Installed 4 x 23 000 L underground tanks with separator system
- Cast new concrete spill slab, forecourt slab, as well as reinstated paving
- Manufactured, installed, and pressure-tested piping underground fuel supply
- Installed new fuel dispensers for customer continuity

# Upgraded Retail Fuel Infrastructure

## BP Modacks Site – continued

### Project Snapshot:

- 4 x 23 000 L underground bulk fuel tanks installed
- Forecourt civil reconstruction including spill slab, forecourt slab, and paving
- Full service station revamp

### Results & Impact:

- Delivered fully compliant underground fuel storage facility
- Improved environmental safeguards through separator and spill containment
- Enhanced customer service reliability with new dispensers and infrastructure
- Extended asset life with modern piping, fittings, and drainage system
- Project executed with minimal disruption to retail site operations



# Heritage Site Service Station Upgrade for Long-Term Compliance

BP Welgelegen, Cape Town

BP Southern Africa appointed PetroENG to upgrade Welgelegen service station, delivering a full replacement of underground fuel lines, new dispensers, and environmental safeguards in 8 weeks.

Business Value	Delivered a modern, compliant, and environmentally safe service station, securing long-term operational reliability for BP Welgelegen.
Timeline	8 weeks, 2024
Technologies	KPS underground fuel-resistant pipework, oily water separators, spill containment, new fuel dispensers, reinforced forecourt concrete and paving.
Key Features	Compliance with underground fuel storage standards, environmental protection, safety assurance, modern fuel dispensing, minimal downtime during upgrade



## The Challenge:

Upgrade ageing infrastructure to ensure safe, compliant, and reliable operations while minimising downtime at a busy retail service station.

## The Solution:

PetroENG delivered civil & mechanical works:

- Removed outdated steel fuel lines
- Installed KPS underground fuel-resistant pipework
- Integrated spill containment with oily water separators
- Executed concrete works and forecourt paving
- Installed new fuel dispensers for improved reliability

# Heritage Site Service Station Upgrade for Long-Term Compliance

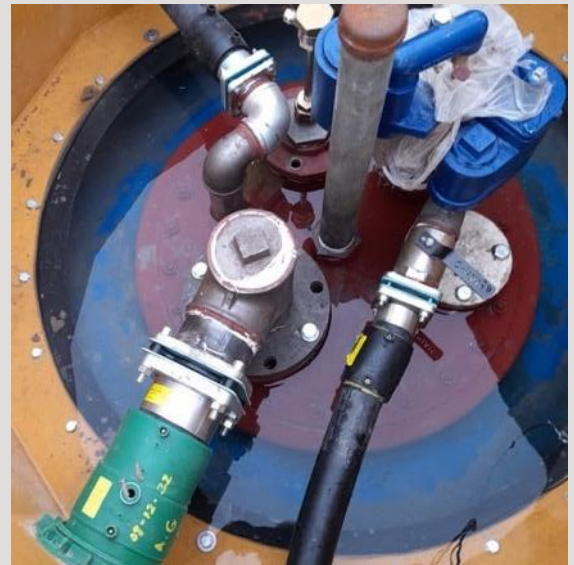
BP Welgelegen, Cape Town - continued

## Project Snapshot

- Duration: 8 weeks
- Full replacement of underground piping with modern KPS system
- Environmental protection integrated through spill containment

## Results & Impact:

- Improved compliance with modern underground fuel storage regulations
- Enhanced safety and environmental safeguards with containment systems
- Reduced risk of leakage or corrosion with advanced KPS pipework
- Improved retail efficiency with new dispensers and forecourt works
- Delivered upgrade within 8-week timeline, minimising operational disruption



# Fire Protection Upgrade and Civil Works

## Creighton

PetroENG executed a complex site preparation, civil works, and fire suppression system installation project at Creighton, ensuring operational integrity, safety compliance, and structured project management throughout. The project was completed in 2024.

Business Value	Improved fire safety, regulatory compliance, and asset protection through integrated civil and firefighting system upgrades.
Timeline	3 months
Technologies	Fire pumps, hydrants, sprinklers, bund foam pourers, foam concentrate tank, reinforced concrete, structural steel pump house
Key Features	Fire protection compliance, reinforced structural design, HSEQ assurance, operational continuity during construction



### The Challenge:

Deliver new firefighting infrastructure and civil upgrades while maintaining operational security and strict compliance standards.

### The Solution:

PetroENG delivered full-scope civil and fire protection works:

- Located/protected underground services and established secure site access
- Demolished and reinstated concrete hardstand with excavation, trenching, and compaction
- Constructed reinforced concrete pump house with structural steel installation
- Installed fire pumps, control system, header hydrants, sprinklers, bund foam pourers, and foam concentrate tank
- Maintained detailed construction strategy and cash flow programmes for client coordination



# Fire Protection Upgrade and Civil Works

## Creighton – continued

### Project Snapshot:

- Construction of new firefighting pump house and suppression system
- Integrated civil, structural, and mechanical works
- Project executed under strict operational and safety controls

### Results & Impact:

- Delivered fully compliant firefighting and suppression infrastructure
- Enhanced site safety with modern hydrants, sprinklers, and foam systems
- Strengthened asset protection through reinforced civil and structural upgrades
- Ensured smooth execution via detailed project planning and client coordination
- Improved long-term operational resilience and HSEQ assurance



# New Retail Service Station in 12 Weeks

## Engen Worcester Mountain Mill Circle

PetroENG delivered a turnkey installation of a new Engen and Kaap Agric service station at Worcester Circle, completing full civil, mechanical, and environmental works in 2023 in 12 weeks.

Business Value	Delivered a modern and compliant retail fuel station, ensuring environmental protection and reliable service for Engen and Kaap Agric customers.
Timeline	12 weeks
Technologies	4 x 20 kl underground tanks, compliant piping and fittings, oily water separators, drainage pipework, spill containment forecourt, fuel dispensers
Key Features	Regulatory compliance, environmental safeguards, modern retail infrastructure, safe and reliable fuel storage, fast-track delivery



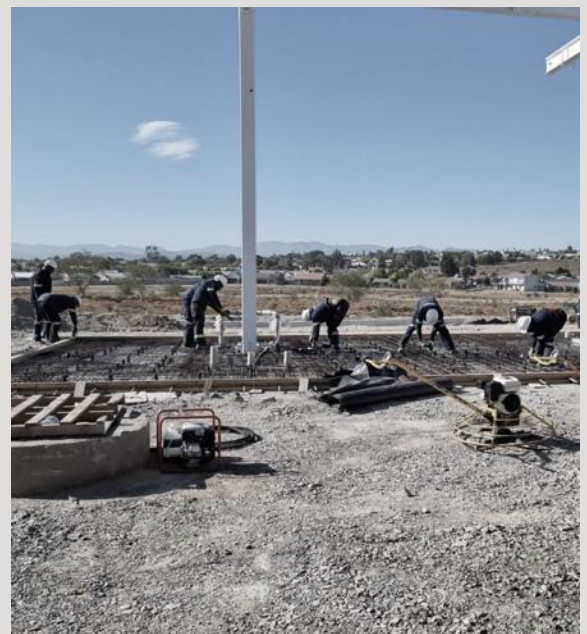
### The Challenge:

Construct a new retail fuel facility with modern compliance, environmental protection, and reliable service delivery standards.

### The Solution:

PetroENG delivered integrated construction and installation works:

- Installed 4 x 20 kl underground fuel tanks with compliant piping and fittings
- Installed oily water separators and full drainage pipework
- Constructed forecourt concrete with spill containment measures
- Installed fuel dispensers for retail operations



# New Retail Service Station in 12 Weeks

## Engen Worcester Mountain Mill Circle – continued

### Project Snapshot:

- Duration: 12 weeks
- 4 x 20 kl underground tanks installed
- Complete forecourt, drainage, and dispenser systems delivered

### Results & Impact:

- Delivered a fully operational and compliant retail service station within 12 weeks
- Enhanced environmental safeguards through spill containment and separators
- Improved retail efficiency with modern dispensers and piping systems
- Secured long-term operational reliability with compliant underground tanks
- Strengthened safety and compliance for both Engen and Kaap Agric operations



# Fire Fighting and Bund Integrity Upgrade

## Engen Elliot Depot

In 2024, PetroENG delivered full civil, mechanical, and firefighting upgrade at the Engen Elliot Depot in the Eastern Cape, strengthening environmental protection and site safety over an 8-month project.

### The Challenge:

Upgrade depot infrastructure for bund integrity and enhance firefighting capability while meeting safety & compliance requirements.

### The Solution:

PetroENG delivered civil, mechanical, and firefighting scope:

- Cast bund walls and floors to ensure full containment of potential spills
- Installed firefighting pipelines, water reservoir, fire pumps, and foam/water spray systems
- Installed foam tank & pumps for protection



# Bund Integrity Fire Protection Upgrade & Gantry Upgrade

## Engen East Cape Fuels, Queenstown

Engen appointed PetroENG to execute full remedial works at the Engen East Cape Fuel Terminal in Queenstown, delivering civil, structural, mechanical, and fire-fighting upgrades in 2023.

### The Challenge:

Upgrade an ageing depot gantry and associated infrastructure to improve safety, compliance, and operational efficiency without disrupting depot operations.

### The Solution:

Delivered civil, structural, and mechanical works:

- Upgraded bunds, drainage, separators, pump bays, and gantry
- Built new gantry with mezzanine, fall protection, fire building, and reservoir
- Installed piping for bunds, gantry, and pump bays
- Commissioned full fire system with pumps, manifolds, and tie-ins
- Maintained continuous depot operations



# Diesel Storage Depot Installation

## Engen South Cape Petroleum, Mossel Bay

In 2023, PetroENG completed the installation of three above-ground diesel tanks and associated civil, mechanical, and safety infrastructure at the Engen South Cape Petroleum depot in Mossel Bay.

### The Challenge:

Deliver a new diesel storage facility with full HSSE compliance and spill protection within 6 months

### The Solution:

PetroENG delivered:

- Civil works: double-walled bund, pump island, filling island, and spill slabs
- Tank installation: 3 x 23,000 L ASTs with 2 NSO3 oil separators
- Mechanical works: pipework, vent pipes, stairs, walkways, suction and pressure systems
- Pressure testing of all lines
- Fuel management: Smith meter system for truck filling operations
- HSSE & QA/QC: compliance with OHS Act and client specifications



# New Retail Service Station Delivered

## MBT Petroleum, Parow

PetroENG delivered a turnkey construction and installation of a new MBT Petroleum service station in Parow, Cape Town, completing the project in 2023 within 12 weeks.

### The Challenge:

Build a modern retail service station with safe fuel storage, drainage, and compliant civil infrastructure.

### The Solution:

PetroENG delivered the following:

- 4 x 23 kl underground fuel tanks
- KPS fuel pipes and fittings
- Concrete forecourt with separator, drainage system, and paving

### Results & Impact:

- Enhanced environmental safeguards through separators and drainage
- Improved operational reliability (KPS fuel piping)
- Civil works for durability and customer use



# Fuel Storage Preparation and Site Establishment

Elliot

PetroENG completed fuel storage preparation and early-stage rehabilitation works on site. The project established safe access for inspection and maintenance across multiple storage tanks.

Business Value	Delivered safe, compliant, and efficient tank access readiness, enabling subsequent inspection and maintenance activities to proceed without delay.
Timeline	3 month project completed in 6 weeks
Technologies	5 x 80,000kL above-ground diesel tanks, sandblasted and corrosion protected with CS marine coating with PET inserted walkways
Key Features	HSEQ compliance, tank life expectancy prolonged, structural safety, custom fabrication for site conditions and improvement of operational efficiency



## The Challenge:

To safely open, drain, and prepare several storage tanks for inspection and maintenance within a live operational site.

## The Solution:

PetroENG delivered complete site preparation and tank access operations:

- Opened tank manway covers on five front-section tanks
- Lowered existing tank staircase for access and maintenance
- Drained approximately 1,000 L of fuel from Tank 1
- Executed full site housekeeping and establishment
- Installed barricades and access control for safe operations



# Fuel Storage Preparation and Site Establishment

Elliot – continued

## Project Snapshot:

- Live operational fuel storage site with multiple above-ground diesel tanks
- Early-stage rehabilitation and access readiness works completed
- Inspection and maintenance access established across five tanks

## Results & Impact:

- Enabled safe, controlled access for tank inspection and maintenance
- Improved HSEQ compliance across fuel storage area
- Prolonged tank service life through preparation and corrosion protection
- Reduced operational risk on a live site through access control and housekeeping



**Thank You**

