EPCM PROVIDES SPECIALIST ENGINEERING, PROCUREMENT, CONSTRUCTION AND MANAGEMENT SERVICES TO THE AFRICAN AND INTERNATIONAL OFFSHORE AND ONSHORE OIL AND GAS MARKETS.

Respected hydrocarbon infrastructure professionals, with more than 40 years of local and international experience, established EPCM in South Africa. From small turnkey projects to multi-million dollar operations, we ensure technical integrity, safety and successful delivery of projects by leveraging on state of the art communication systems and a global resource network built over decades.
EPCM is a provider of engineering and construction services in the energy industry focusing on onshore and offshore hydrocarbon infrastructure. The services offered, using a combination of South African and global knowledge and expertise, cover all project phases from project development and feasibility studies, through engineering design and procurement, to construction, commissioning and operational management.
Through a combination of quality, efficiency and engineering excellence, we provide clients with technical, financial and economically optimized solutions to ensure project advancements to final phases. To serve clients’ diverse requirements, we provide electrical, civil, process, mechanical, geotechnical and environmental services for the hydrocarbon industry over the complete lifecycle of a project.

WE UTILIZE DEDICATED TEAMS PROVIDING GLOBAL ENGINEERING EXPERTISE FROM ALL SPECIALIZED OIL & GAS INDUSTRIES TO PROVIDE SERVICES OF:

- Concept, Pre-Feasibility and Feasibility Studies
- Basic Engineering Packages
- Detailed Engineering Design and Procurement
- Engineering, Procurement and Construction Management
- Turnkey Projects
- Operations and Maintenance
- Quality Management
- Risk & Safety
- Integrity Assessments
- Technical, Economic and Financial Advisory
- Training
EPCM specializes in providing engineering consultancy and construction services for onshore/offshore cross-country or short distance hydrocarbon pipelines and virtual pipelines. We offer multi-discipline support across the full range of engineering design, project management and due diligence, pipeline refurbishments, pipeline cleaning, commissioning and operations and maintenance services – either individually or tailored as a complete package.

We offer multi-discipline support across the full range of engineering design.
PIPELINES & TRANSPORTATION

OVERVIEW

Boasting extensive international experience, our team specializes in:

• Overland long-distance transmission pipelines and associated facilities
• Compression and pump stations including associated control systems
• Maintenance and refurbishments of existing pipelines and associated facilities
• Cathodic Protection Systems
• Upstream gas gathering networks, compression and processing
• LNG/LPG/CNG/liquid fuels filling stations
• LNG/LPG/CNG/liquid fuels road trucking and railway transportation
• Bunkering facilities
• Vehicle conversions to CNG/LNG
• Vessel conversions to CNG/LNG

SECTOR SERVICES

• Field development studies
• Conceptual and feasibility designs
• Pre-FEED and FEED packages
• Detailed design packages
• Pipeline Route Studies and right of way requirements
• Transient Hydraulic Analysis
• Pipeline Project Detailed Cost Estimates
• Upstream Oil and Gas Gathering networks
• Gas Distribution Systems Design and Turnkey solutions
• Gas and Liquid Pipeline Commissioning and Start-up
• Gas Compressor stations, Pressure Reducing Stations and Customer Metering Stations – Design and Turnkey solutions
• Fire Systems Design and Turnkey Solutions
• Multi-product Pipeline Design, Procurement, Construction Management and Operation Specialists
• Liquid Fuel Logistics Studies
• Pipeline Emergency Preparedness
• Cost Estimating and Scheduling
• Pipeline Operation and Maintenance Specialists
• Operating and Maintenance Contracts
• Owners Engineers
• Pipeline piggability studies
• EPC and EPCM contracts
• Cathodic protection consultancy and inspection
• Cathodic protection systems construction and installation
• Survey, design and project management of cathodic protection contracts
• Maintenance and monitoring of cathodic protection systems
• Audits and status quo evaluations of cathodic protection systems
• Pipeline integrity investigations and management
• Turnkey integrity project execution
• Direct Current Voltage Gradient (DCVG) Surveys
• Pipeline Current Mapping (PCM) Surveys
• Close Interval Potential (CIPS) Surveys
• Survey, design and maintenance of AC mitigation systems
• Protection coating specifications
• Pipeline coating, lining and testing facilities
Whether you require large or small, atmospheric or pressurized, above ground or underground, vertical, horizontal, cylindrical, spherical or insulated tanks, we have the required engineering expertise and network of suppliers to satisfy and exceed diverse customer needs.
OVERVIEW

We specialize in storage of varying grades for oil, diesel, jet fuel, illuminated paraffin, gasoline, LPG, ethanol, biogas, LNG and CNG. We provide engineering from concept selection to detailed design packages, project management, full storage depot cleaning and refurbishments, tank conversions and depot restorations, operations & maintenance and project due diligence for bulk fuel storage depots including all ancillary facilities.

SECTOR SERVICES

- Conceptual and feasibility designs
- Pre-FEED and FEED packages
- Detailed design packages
- Technical due diligence assessments
- Storage Facility / Terminal Layout Studies
- Detailed Cost Estimates
- Product blending stations
- Storage Facility / Terminal Commissioning and Start-up
- Storage Facility / Terminal Design, Procurement, Construction
- Management and Operation Specialists
- Fire Systems Design and Turnkey Solutions
- Supply and Logistics Studies
- Detailed Project Scheduling
- Terminal Operation and Maintenance Specialists
- Owners Engineers
- Tank Inspections per International Codes and Standards
- Financial Modeling Services
- Debottlenecking studies
- Operation Optimization Studies
- Value Improvement Studies
- Process Safety Studies
- EPC, EPCM and Operating and Maintenance Contracts
- Operator Training and Operating Simulation Models
Our offshore team has extensive and proven global experience in subsea pipelines, tie-ins, flow-lines, shore crossings, marine intakes and outfalls, subsea and marine construction, SPM and CBM import/export systems, floating production facilities, floating storage facilities and liquefied natural gas floating storage & regasification technologies.
OVERVIEW

EPCM’s offshore marine advisory and engineering solutions concentrate on integrating technological and commercial outcomes. By focusing on new energy assets or existing projects, our core expertise lie within initial concept selection, feasibility studies to detailed engineering packages, project due diligence and management, commercial and negotiation advisory, operations, maintenance and commissioning services.
Our specialized aviation team provides design, project management, commissioning, system automation/integration and installation, operations and maintenance, project due diligence and full turnkey solutions. We can bring our expertise to bear on the complete aviation fuelling value chain – from pipeline or road tanker receipt point loading facilities, to aviation fuel storage and offloading facilities, including hydrant systems and fuel bowser facilities, to fuelling onto aircrafts.
AVIATION

OVERVIEW

Whether you need tank farm upgrades, hydrant system refurbishments, aviation fuelling systems, increased storage capacity, pipeline distribution networks or removal of infrastructure, EPCM provides optimized engineered solutions for commercial and military applications in accordance with the most stringent of client requirements.

SECTOR SERVICES

- Conceptual- and feasibility designs
- Pre-FEED and FEED packages
- Detailed design packages
- Transient Hydraulic Analysis
- Fuel Storage facilities
- Fuel Distribution and Hydrant Systems Design and Turnkey Solutions
- Tanker truck refueling facilities
- Fire Systems Requirements, Design and Turnkey Solutions
- Process Safety Studies
- EPC, EPCM and Operating and Maintenance Contracts
- Aviation fuel systems Operation and Maintenance Specialists
- Commissioning procedures, supervision and certification
- Operating and Maintenance Procedures
- Cost Estimating and Financial models
- Value Improvement Studies
The EPCM processing team focus on changing the way fuels are made and utilized to provide more energy efficient and cost-effective solutions, on a small-scale basis, to the market. Our flexible processing design and turnkey solutions innovatively optimize industry processes, increasing profit margins and reducing costs.
OVERVIEW

Whether your business lies within industries of oil and gas, mining, manufacturing, construction, processing, transportation, or most other energy-intensive environments, EPCM expertise can economically optimize processes to deliver profitable results.

SECTOR SERVICES

We provide small-scale engineering solutions within areas of;

- Liquefied Natural Gas (LNG) plants
- Regasification facilities
- Gas-to-Liquids (GTL) plants
- Plastics-to-Diesel plants
- Syngas-to-jet fuel plants
- CNG mother and daughter stations
- Diesel/gasoline/oil-fired engine conversions to CNG/LNG/LPG
- Ethanol/Gasoline/diesel/oil separation technologies
- Natural gas processing (helium extraction, sweetening, dehydration, liquids separation, gas separations)
- Waste-to-energy plants
- Biogas and Biofuels

Our processing design services include:

- Conceptual- and feasibility designs
- Pre-FEED and FEED packages
- Detailed design packages
- Construction Management
- Turnkey solutions
- Commissioning Procedures, Supervision and Certification
- EPC, EPCM and Operating and Maintenance Contracts
- Operating and Maintenance procedures
- Cost Estimating and Financial Models
- Value Improvement Studies
- Process Safety Studies
- Debottlenecking Studies