



**AFRICAN
SOLUTIONS.
INTERNATIONAL
STANDARDS.**

African Marine Solutions (AMSOL) is a specialist solutions provider and partner to clients who operate in marine environments.

As a market leader, AMSOL is the only marine solutions provider in the region that is employee and management owned, and is a catalyst for economic empowerment and shared value creation.

PURPOSE AND VISION

To provide safe and sustainable marine solutions to clients in order to facilitate the growth and transformation of the regional economy.

MISSION

To deliver value to our clients, managing their risk to international standards in a partnership approach. We do this in a way that reflects our Company Values and we prioritise care for people and the environment.

MARKETS AND SECTORS

AMSOL pursues business opportunities on the African continent and in the Indian Ocean Island region, and is rooted in South Africa. Clients are located primarily in these sectors:

- Energy** Oil, Gas and Renewables
- Ports** Authorities and Port Users
- Mining** Offshore and Onshore
- Maritime** Vessel Owners and Operators



AMSOL FACTS

- Ownership and management vested in Africa with 100% South African shareholding that includes employees and management;
- Majority Black South African owned, leading transformation in the sector;
- Proven focus on localisation in areas of operation;
- Diverse and specialist fleet of owned and managed vessels;
- Leading employer of South African seafarers;
- Certified for Environmental Management Systems with ISO 14001, and for Quality Management System with ISO 9001;
- Established in 2016 with the acquisition of the leading specialist marine solutions company in Southern Africa, SMIT Amandla Marine;
- Focused on long term client partnerships, SHEQ and service delivery to international standards.

MARINE PROJECTS: TURNKEY SOLUTIONS

With an understanding of our clients' requirements, we conceptualise, manage and implement long or short term project solutions utilising experienced personnel, specialised assets and equipment.

We have a track record of delivering simple or complex marine projects to international standards, in a partnership approach. We deliver value creating solutions in a cost effective manner, tailored to our clients' specific needs. We invest in long term, sustainable relationships and execute projects to international standards.

The depth of our experience in the region, and track record, ensures that we are capable of operating effectively in multiple marine markets, delivering technical solutions to client specifications.

Our competency portfolio includes:

ENERGY

- Offshore Oil and Gas Terminal Installation and Management;
- Air, Saturation and ROV Subsea Operations;
- Offshore Support for exploration, installation and production activities, including positioning involving Complex Vessel Handling and Survey Support;
- Cold and warm stacking of Mobile Offshore Drilling Units (MODU) and vessels, including maintenance of Stack Architecture;
- Fuel Transfer inshore, in port and offshore, including ship-to-ship transfers and bunker delivery.

PORTS

- Marine Services, including Harbour Towing.

MINING

- Offshore Supply and Support, ensuring continuity in the Value Chain;
- Management of Specialist Cargo Transshipment Operations inshore, in port or offshore.

MARITIME

- Marine Consultancy and Advisory;
- Marine and Cargo Surveying;
- Vessel Management, Maintenance and Manning;
- Technical Management including Drydocks, Retrofit Modifications and Special Projects;
- Ocean and Coastal Towing;
- Emergency Response, Safety Standby and Environmental Protection.

PROJECTS AND CLIENTS



PROJECTS AND CLIENTS

AMSOL is a marine solutions partner to its clients in the Energy, Ports, Mining and Maritime sectors. With a track record of delivering simple or complex marine projects to international standards, we deliver value creating solutions in a cost effective manner.

Recent examples of AMSOL projects include:

ENERGY

- Management, operation and maintenance of three offshore tanker terminals off of the South African coast, ensuring the consistent, safe and environmentally friendly importation and exportation of product;
- Subsea maintenance, installation, decommissioning and support for operations involving offshore structures under air or saturation diving and ROV conditions;
- Effective, timeous and accurate delivery of bunkers on behalf of Oil Majors utilising a fleet of purpose built bunker barges operating inport on a 24/7/365 basis;
- Offshore operations including anchor handling and recovery that require specialist ship handling skills and exceptional knowledge of local conditions off of the Southern African coast;
- Provision of marine, load and discharge advisory services for operations involving the transfer of high risk liquid and solid cargoes in port, inshore and offshore;
- Utilisation of our vessel platforms to support specialised research, survey and ROV operations in the most challenging of ocean conditions.

PORTS

- Provision of a turnkey harbor towage and marine advisory solution in a busy Mozambican port.

MINING

- Provision of an offshore supply solution utilising two, modern supply launches and a DP2 AHTSV that form part of the logistics and marine support chain servicing the world's largest offshore diamond mining fleet operating off of Southern Africa;
- Management of an offshore coal transshipment operation off of Mozambique, including marine advisory and survey roles.

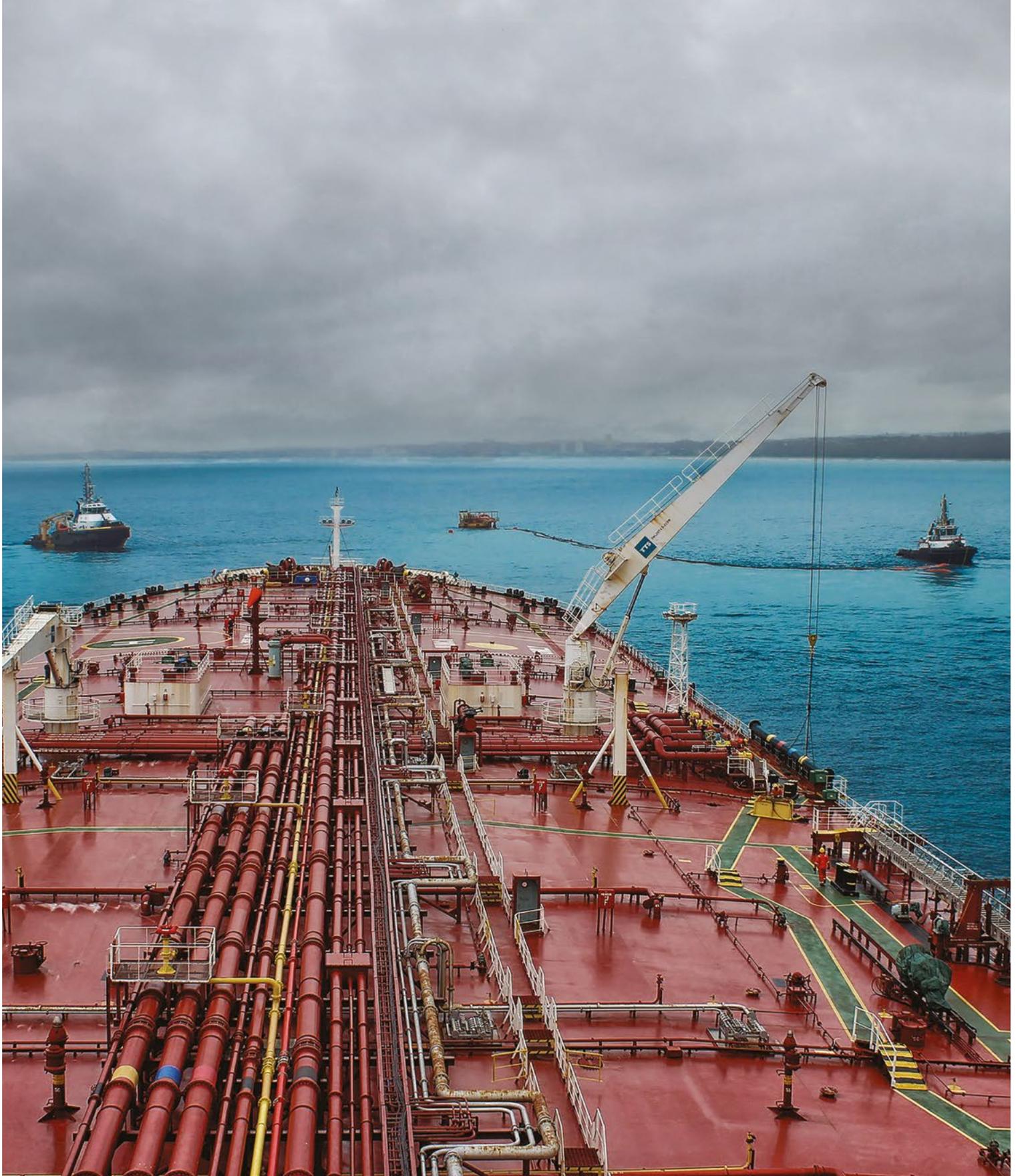
MARITIME

- Management of specialist vessels and delivery of a comprehensive manning, procurement and maintenance solution to ship owners, including South Africa's Antarctic Supply and Environmental Research Vessels;
- Provision of professional seafarers and marine specialists to ensure continuity and effectiveness of client fleet operations and projects;
- Provision of a proactive pollution prevention service in partnership with the South African Government, utilising an Emergency Towing Vessel and experienced emergency response personnel;
- Support for salvage and emergency response operations in the region with the provision of specialist personnel, equipment and resources.

We have successfully completed projects for client partners in the region that include:

Energy	Sapref, PetroSA, Strategic Fuel Fund, Shell, BP, Engen, Chevron, Sasol, Total E&P, Total Gabon, Total Ghana, Tullow Oil, SBM, Boskalis, ENI, Anadarko, Angolan Drilling Corporation, PetroBras and Transocean.
Mining	De Beers Group Services, Debmarine, Vale, Kenmare and Namibian Marine Phosphates.
Ports	CFM, TNPA, Maersk and MSC.
Maritime	Department of Transport, South African Maritime Safety Authority, Department of Environmental Affairs, Chamarel Marine Services, Titan Salvage and SMIT Salvage.

AFRICAN SOLUTIONS. INTERNATIONAL STANDARDS.



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With a strong foundation in compliance and risk management, we work with our clients to ensure that business processes meet ever increasing international standards.

We participate in frequent external audits and verifications, and implement best practice in technical and operational excellence.

We hold the following accreditations and certifications:

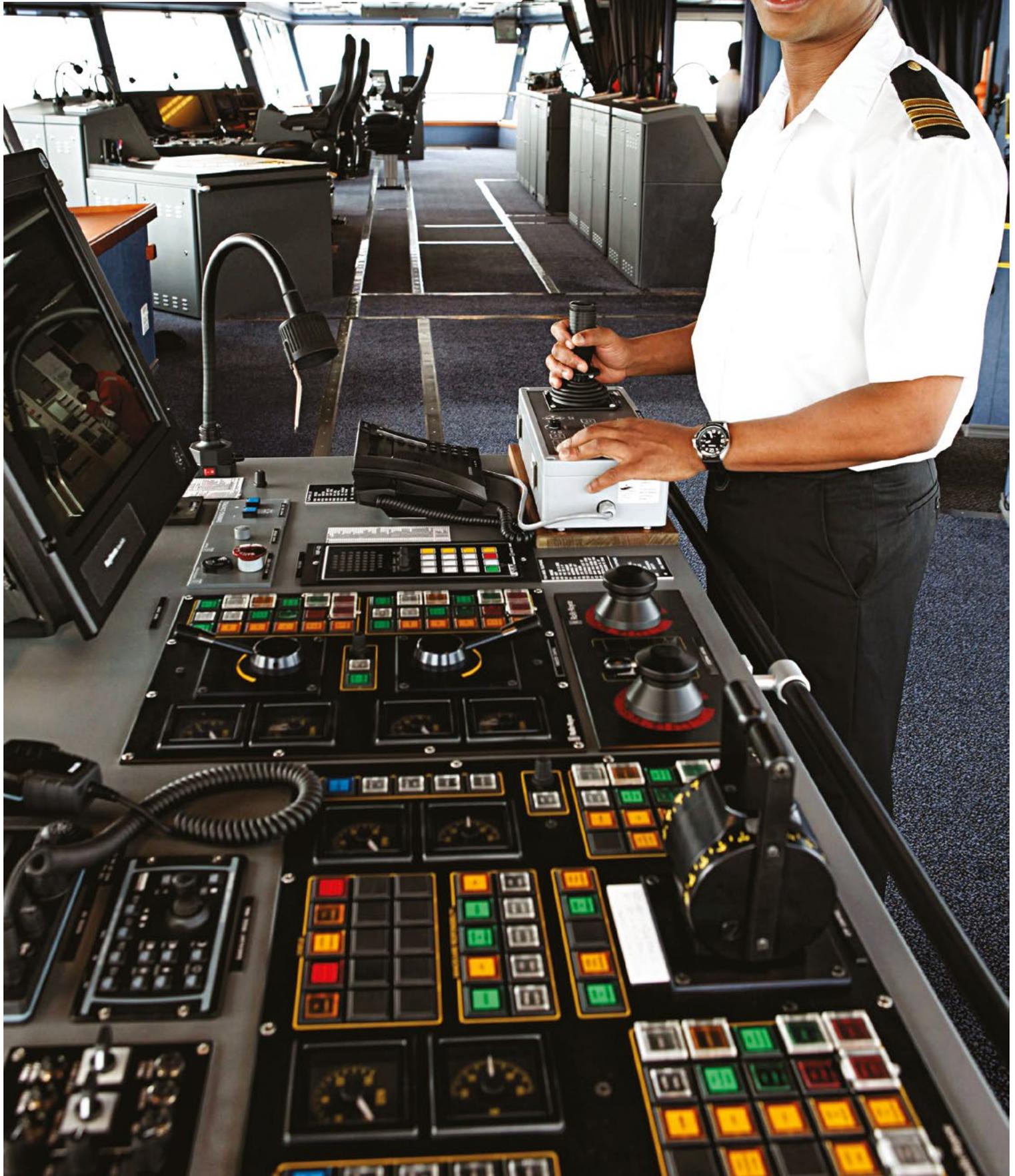
- ISO 9001 Certification for Quality Management Systems;
- ISO 14001 Certification for Environmental Management;
- International Ship Management (ISM);
- International Ship and Port Security (ISPS);
- MLC Compliance – Crewing Agency Certified;
- Class Approval – Lloyds, Bureau Veritas, Det Norske Veritas, CCS and ABS;
- Compliance in South Africa with Maritime Transport and Services Sub-Sector Codes for Broad-Based Black Economic Empowerment.

In line with our company values, our approach to sustainability reflects our commitment to continuous improvement. This is a focus of our key business processes relating to operations, procurement, vessel maintenance, people, safety, environmental protection, and health and quality management.

We encourage environmental awareness and motivation amongst employees and others working on behalf of AMSOL in such a way that protection of the environment becomes a priority for everyone, and we aim for continuous improvement in our safety, health and environmental performance.



A CATALYST FOR TRANSFORMATION



A CATALYST FOR TRANSFORMATION

We believe that the true path to sustainability lies in the growth of our business in the African region. As a market leader with roots in South Africa, AMSOL is a catalyst for the economic transformation of ocean economies which is why localisation is a priority in our areas of operation.

We are passionate about the spirit and people of the region and this is reflected in the caliber of those who we employ, the diversity of our supply chain and our partnership with communities. Our expertise and solutions are borne of Africa, and delivered to international standards.

AMSOL IN SOUTH AFRICA

As a majority Black South African owned new entity, at startup AMSOL is a Level 2 Contributor to Broad-Based Black Economic Empowerment and is verified annually against the requirements of the Maritime Transport & Services Sub-Sector Codes.

In support of the objectives of Operation Phakisa as it applies to the growth of the Ocean Economy, we actively promote and participate in value creation initiatives in partnership with the State, with whom we also deliver marine solutions.

AMSOL is 100% South African owned, with shareholding that includes employees and management. As a result, we are the leading black empowered marine solutions company of its kind in the country, building on the progress made by SMIT Amandla Marine since 2005 in implementing a sustainable empowerment strategy. AMSOL acquired SMIT Amandla Marine in 2016.

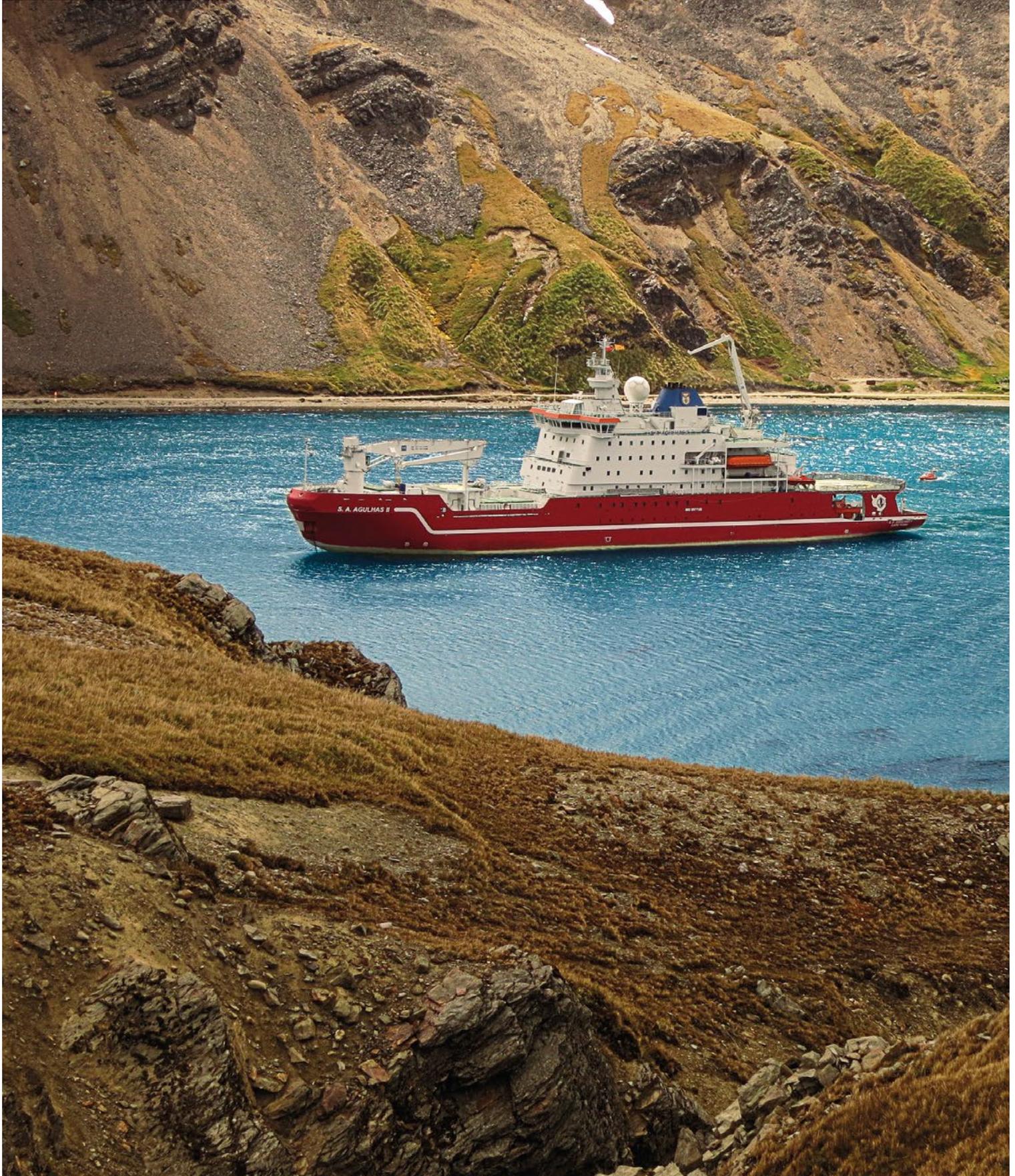
As a leading employer of seafarers in the region, we actively promote training and development of our employees and focus on building maritime awareness and maritime education through innovative socio-economic development programmes. With a focus on investing in secondary education initiatives we enrich our Talent Pipeline by informing, inspiring and educating learners about our industry and career opportunities.



AMSOL maintains a diverse and sustainable supply chain and believes that this is critical to its competitive advantage and value offering. We work closely with our supply partners as an extension of our business and we embrace the growth of small, medium and micro enterprises.

Engaging regularly, we drive enterprise and supplier development and have invested in an entrepreneur development programme in South Africa.

ENSURING VESSEL AVAILABILITY



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The challenge for any vessel owner is to ensure consistent vessel availability in order to maximise commercial utilisation.

AMSOL offers a turn-key vessel management solution driven by cost efficiency and tailored to each client's unique requirements. With experience in management of a diverse range of specialist vessels, we are able to utilise effective systems, experienced personnel and streamlined procurement, technical management, maintenance and logistics processes to deliver a world class service in the region.

A customised solution is guided by client requirements and may include:

- Technical Management, including planned maintenance;
- Specialised Navigational and Marine Operational Support;
- Risk and SHEQ Assurance, including nautical and technical compliance;
- Cost Effective Procurement of Goods and Services, including strategic sourcing, category management and supplier supervision;
- Vessel Fit-for-Purpose as well as Quality Assurance Auditing and Inspections;
- Project Management of drydocks, retrofit modifications and special projects such as newbuild management;
- Sourcing and Employment of Specialist Personnel and Seafarers;
- Budgeting and Financial Reporting;
- Vessel Administration System Installation and Support.

A dedicated management team focused on proactive planning ensures that in the fast paced, demanding maritime industry, response to client requirements is effective. Qualified and experienced AMSOL seafarers with a passion for their profession set us apart, and our crewing solution is supported by a progressive talent pipeline from recruitment, to management, development and retention.

Operational effectiveness, safety and environmental protection is underpinned by the relevant policies and procedures contained in our Group Management System, based on ISO and ISM standards to ensure regulatory compliance. AMSOL is a recognized Maritime Crewing Agency in terms of the Maritime Labour Convention.



OFFSHORE SUPPORT FOR UPSTREAM ACTIVITIES



OFFSHORE SUPPORT FOR UPSTREAM ACTIVITIES

With experience in providing Upstream support to the offshore Oil & Gas sector, our experiential knowledge of the specialist needs and requirements during these typically high risk projects is extensive.

Our involvement in diverse operations ensures that skilled AMSOL personnel are sought after internationally for specialist and complex projects.

Together with fit for purpose assets and equipment, and an extensive global network, we are able to meet the specifications required by our Clients and perform to international standards. In addition to specialist Marine Project Consultancy and Subsea Solutions, we offer:

- Survey and Survey Support;
- Offshore Construction Support;
- Anchor Handling and Positioning for offshore installations and structures;
- Offshore Supply, Logistics and Safety Support;
- Emergency Standby, including Fire Fighting;
- Ocean & Coastal Towing;
- Voyage Planning and Support;
- Positioning Support to high level mooring operations as well as offshore loading and discharge operations;
- SHEQ, Risk Management and Advisory.

We are able to offer a cost effective multipurpose solution that is flexible and fulfils a variety of offshore support requirements. This, together with comprehensive technical and operational support infrastructure, ensures a seamless solution – thereby meeting project outcomes.



OFFSHORE TERMINAL MANAGEMENT



OFFSHORE TERMINAL MANAGEMENT

Continuous improvement and adherence to international standards and requirements underpins the AMSOL partnership approach to the management of single and multi-buoy (SPM & CBM) offshore terminal operations.

We understand the importance of ensuring continuity of product supply, safety, health and environmental protection and integrate this into operational models which are specially developed together with our Client partners.

Our comprehensive, turn-key solution can be adapted to client requirements and includes:

- Offshore Terminal Strategic Asset Management and Assurance;
- Project Management, including development of Capital Expenditure and Operational Budgets;
- Integrity Management of Pipeline, Subsea Infrastructure, Floating Assets and Spares;
- Subsea and Floating Hose Integrity and Inventory Management;
- Subsea Inspection Repairs and Maintenance, including pipeline repairs and subsea and floating hose change out;
- Key Operational Interface Management;
- Tanker Operations, including Pilotage;
- Provision and Management of Support and Specialist Vessels;
- Pollution Prevention, Control and Firefighting;
- ISPS Security Management.

Our experienced team of specialists frequently participate in audits, assurance and verification processes in partnership with Oil Majors, ensuring that our procedures and operational risk management approach reflects global Best Practice.



SUSTAINABLE DECOMMISSIONING



SUSTAINABLE DECOMMISSIONING

Oil and Gas exploration and production companies in the Energy sector appreciate the importance of the efficient decommissioning of offshore platforms, pipelines and subsea equipment as they reach the end of their operational life. AMSOL understands that this process integrates many distinct technical components and that environmental sustainability is key.

AMSOL develops practical and cost-effective marine solutions for the removal and disposal of these structures, incorporating all stages of the decommissioning cycle from predesign, planning and engineering phases to environmentally responsible removal and disposal.

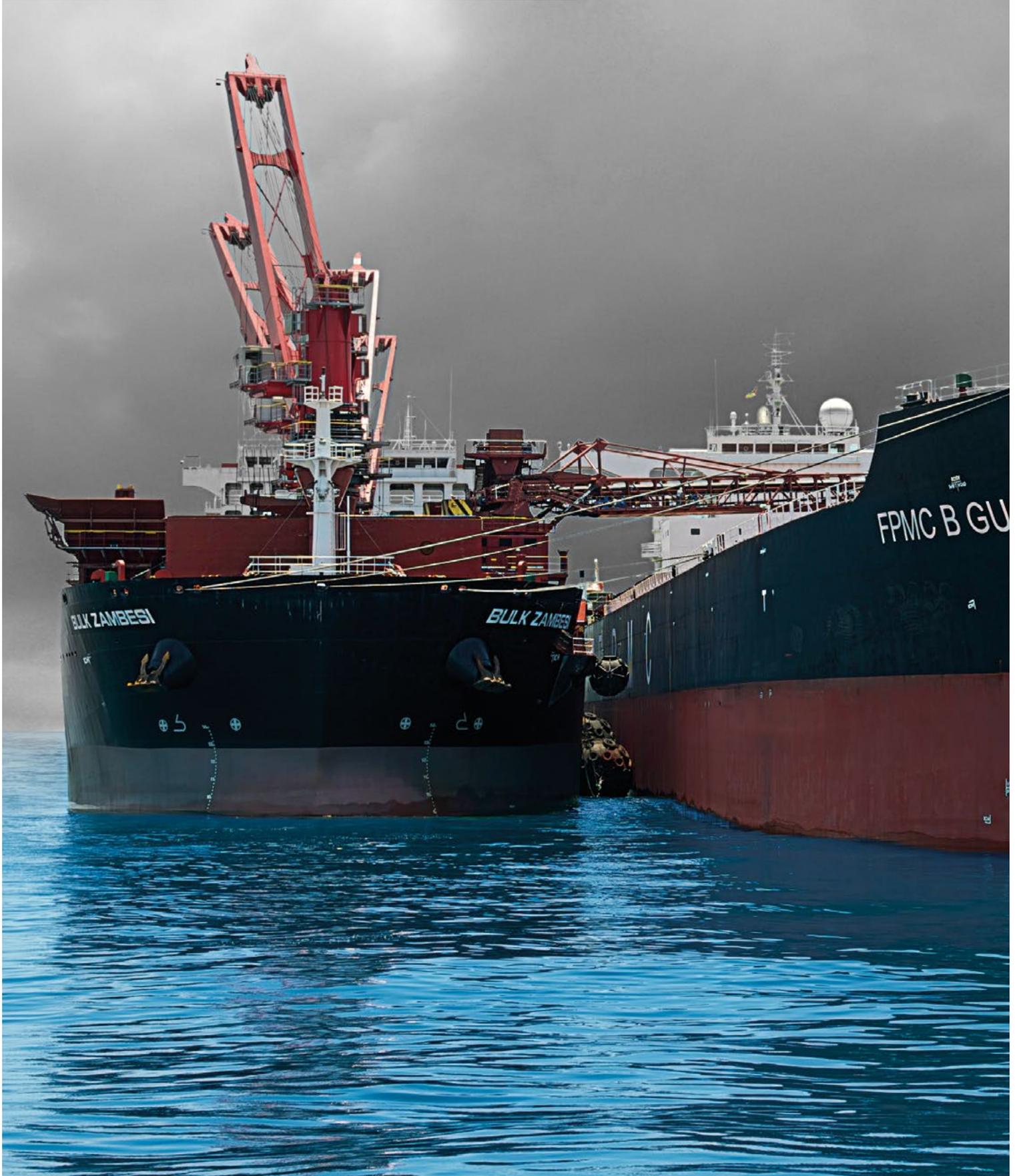
Together with carefully selected strategic partners, AMSOL:

- Designs tailor-made solutions that consider the unique dynamics of each location;
- Develops an optimum decommissioning strategy utilising technical assessments and cost modelling;
- Provides project management and support during program execution and close-out, including liaison with the regulatory bodies;
- Identifies and sources the specialised tools, equipment and floating assets required for the work scope and integrates these into operations to guarantee optimum project performance;
- Details geotechnical design applications and survey data in the offshore field;
- Implements remediation activities including spill response, containment handling, bio-marine protection, rectification or removal of bio-marine fouling, reconstruction of substrates caused through tidal currents, vortice induction and scouring;
- Conducts remedial analysis that includes environmental impact data, monitoring of activity, as well as topographical and hydrographical surveys.

AMSOL's value proposition is underpinned by an integrated risk management approach, including throughout the design, operations, management, surveying and engineering phases.



A PARTNER IN THE MINING VALUE CHAIN



A PARTNER IN THE MINING VALUE CHAIN

Ensuring the efficiency of logistics and operational support in the mining sector is critical to productivity. At AMSOL, we understand these drivers and have proven ourselves to be an effective partner in the value chain.

With experience in providing support to diamond, phosphate and coal mining projects, we offer a comprehensive turnkey marine management or tailored project solution including:

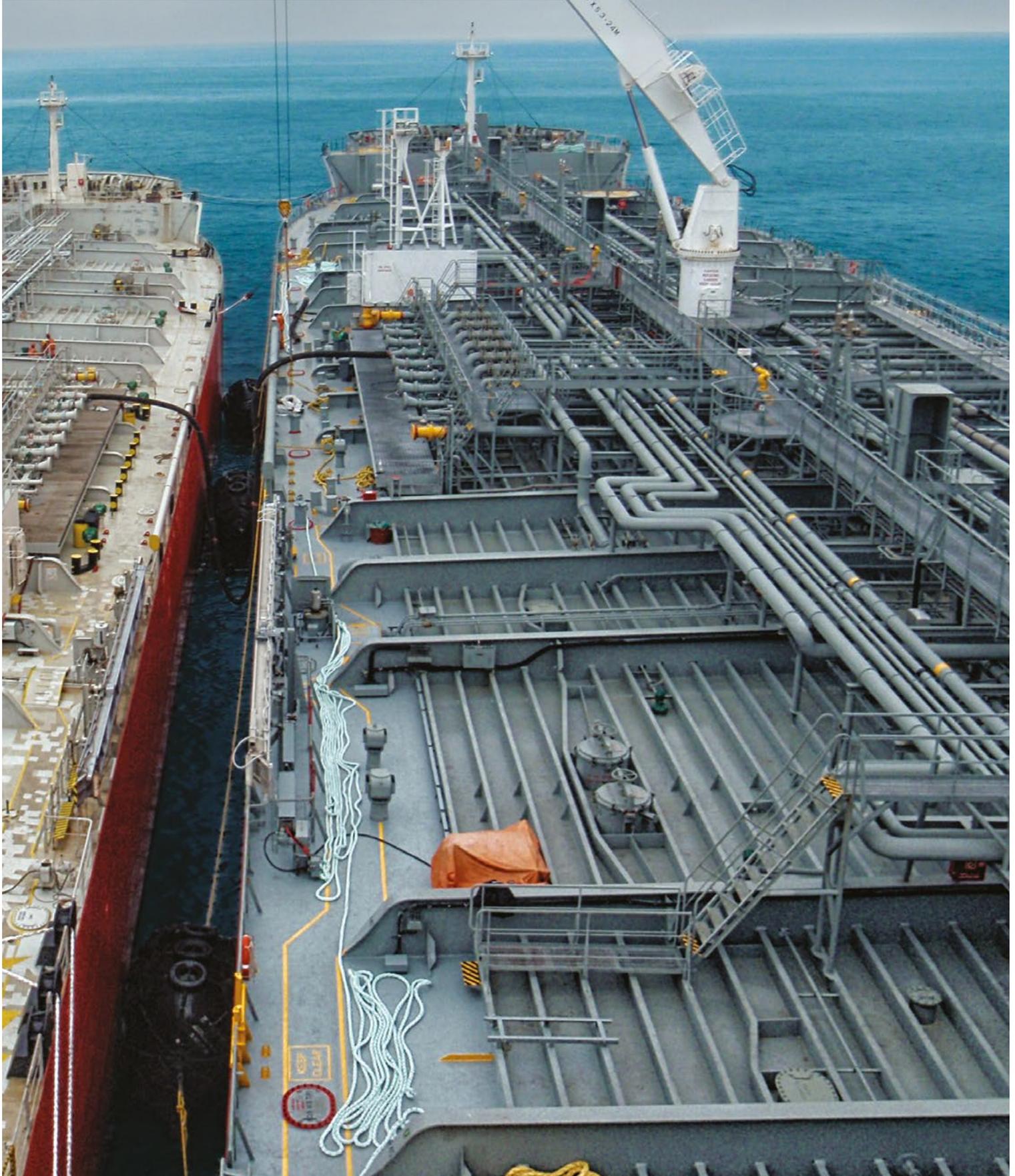
- Support and Supply for Offshore Mining Operations, including fuel transfers and fuel transfer support, static towing of supply tankers, sea bed hazard recovery, and safety standby;
- Installation, Positioning and Anchor Recovery involving offshore mining structures;
- Survey Support including use and operation of ROV's and AUV's;
- Vessel Provision and Support during offshore sampling, EIA surveys and seabed clearance projects;
- Cargo Assurance during loading and unloading operations in port;
- Offshore Transhipment operations involving bulk cargos, both liquid and solid.



AMSOL's capacity to meet the unique regulatory requirements of the offshore diamond mining industry is proven and supported by an experienced crewing logistics team ashore.



SAFE AND EFFECTIVE FUEL TRANSFERS



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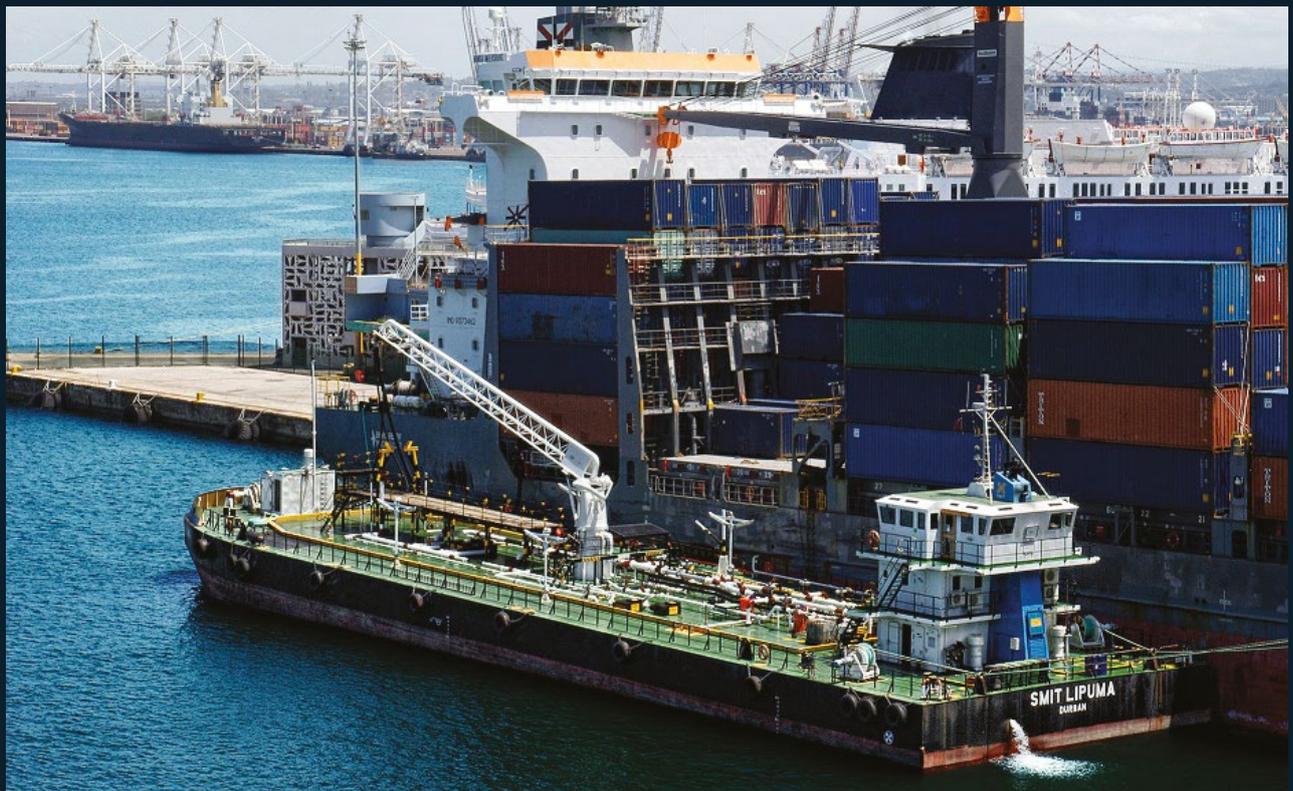
AMSOL has the competency and experience required to manage potentially high risk operations involving the transfer of fuels between vessels in port, inshore or offshore.

Highly experienced personnel, a strong SHEQ focus and in-depth technical knowledge ensure that we deliver a risk managed solution. A team of AMSOL specialists closely manage operational interfaces providing clients with the assurance that the operation is compliant with international standards.

Whether we're delivering fuel accurately and timeously to vessels in port utilising a fleet of modern bunker barges in a 24/7/365 operation, or managing discharge and loading operations of tankers working petroleum products and crude oil, our risk managed approach together with a dedicated team ensure environmental protection and safe operations.

Operation specific procedures and risk mitigation form the foundation of each operation, conducted under the supervision of relevant authorities and frequently vetted by Oil Majors to ensure application of operational best practice.

This competency is also key to the turnkey management solution offered for ship-to-ship transfer operations under different marine conditions. Here, it is the combination of specialised equipment and experienced AMSOL Mooring Masters and Load/Discharge Advisors, together with effective support teams, who ensure that our clients expectations are met, and solutions delivered with safety, care for the environment and risk mitigation being the core drivers for every project.



SUBSEA OPERATIONS



SUBSEA OPERATIONS

AMSOL offers a comprehensive Subsea solution that includes engineering, project management and execution of marine installation and decommissioning projects.

We manage underwater operations in support of offshore projects, and focus our effort on providing high quality equipment and an experienced team.

Our project solution portfolio includes:

- Surface Demand Diving Services: Air and Nitrox;
- Saturation Diving Services;
- ROV Services;
- Support Services: Project Management, Engineering, Marine Services and Vessels;
- Tailored solutions that may include:
 - Inspection Repair and Maintenance;
 - Specific Methods Development;
 - Underwater Ship Repair;
 - Thruster Installation and Handling;
 - Subsea Welding and NDT to ASME Standards;
 - Installation of Buoy and Elastomeric Architecture;
 - Structural Component Handling and Installation;
 - Metrology, Tie-in Spool Handling and Installation;
 - Tie-back Architecture;
 - Physical Decommissioning;
 - Trenching, Cable Lay and Burial Operations;
 - Scour and Free Span Correction;
 - Inspection: UWILD and SPS;
 - Inspection: Geotechnical, UXO Survey, Sonadyne, ROV Data and Diver;
 - Subsea Architecture and Hull Cleaning;
 - Cathodic Readings and Gauging;
 - Cofferdam Installation;
 - Penetration Blanking;
 - Work Class ROV Intervention.

We work to international standards for Inspection, Repair and Maintenance (IRM) on existing client architecture. This includes both major and minor construction, commissioning and decommissioning solutions to client owned seabed-to-surface architecture.

Within international guidelines, our approach to SHEQ ensures that we deliver risk managed underwater solutions.

AMSOL is an active member of The International Marine Contractors Association (IMCA)





MARINE CIVILS & REMEDIATION OPERATIONS



MARINE CIVIL PROJECTS MANAGED IN A PARTNERSHIP APPROACH

AMSOL provides trusted turnkey marine civil engineering solutions which in turn ensure that its clients can deliver a sustainable service into the future.

Innovative marine civil engineering operations are tailor-made to meet the requirements and expectations of the client and are completed to international standards, with due concern for the environment. Dedicated marine engineering equipment and highly skilled employees are combined to carry out these specialist operations, which are project managed by an experienced AMSOL team.

AMSOL provides a portfolio of marine civil engineering solutions which include:

- Marine and coastal engineering, ranging from preliminary scoping of a project to implementation and remediation.
- Construction of marine terminal infrastructure, including layout planning and marine construction.
- Coastal engineering to design effective, robust coastal structures. This includes planning, design, construction and maintenance of civil works in the coastal zone.
- Design and installation of seawater intake systems.

In line with international requirements, AMSOL's approach to SHEQ ensures that construction is carried out safely and meets the specific requirements of the project. AMSOL is a member of the International Marine Contractors Association.

EFFECTIVE REMEDIATION SUPPORTS A SUSTAINABLE MARINE ECO-SYSTEM

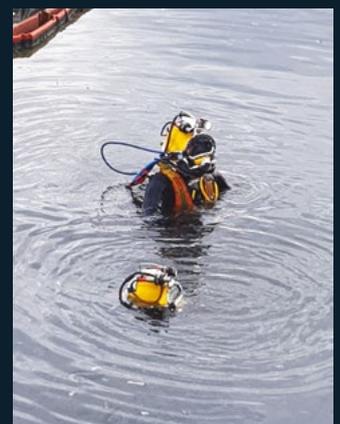
Marine-based infrastructure, such as quaysides in Ports and Harbours, is subject to harsh environmental conditions and is often contaminated by spillage or seepage over time. The resulting structural deterioration endangers human and marine life, as well as the physical environment.

AMSOL offers clients in the Energy sector a turn-key remediation solution from assessment to reconstruction, returning the infrastructure to its original condition. This includes risk mitigation measures with respect to spill response, containment handling, bio-marine protection, rectification or removal of bio-marine fouling, reconstruction of substrates caused through tidal currents, vortice induction and scouring.

AMSOL's marine infrastructure specialists ensure that sustainable, cost effective solutions to suit site-specific conditions are implemented whilst maintaining rigorous health and safety practices in accordance with the company's certifications and international standards.

AMSOL's remediation solution also includes:

- Marine and coastal remediation consultancy.
- Underwater investigation and maintenance of aging port infrastructure.



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