



CAPABILITY STATEMENT

Senior Offshore Engineering That Executes.

Studies, EPCI / EPRD Support and Decommissioning —
delivered by senior practitioners with hands-on offshore
execution experience across operators, EPCs, fabrication
yards and installation contractors.

voryx.solutions · info@voryx.solutions · 2026 Edition

ABOUT VORYX SOLUTIONS

Voryx Solutions combines senior offshore engineering expertise with practical project execution experience to deliver technically robust, commercially practical, and execution-focused solutions across the offshore energy sector.

Voryx is an independent offshore engineering and project delivery consultancy founded by senior practitioners with hands-on careers inside major operators, EPC contractors, offshore installation companies and fabrication yards. Our work bridges engineering studies and real offshore execution — not theoretical consultancy.

Across our team, we bring more than **50 years of combined offshore and project execution experience** across the full asset lifecycle: concept and FEED, detailed design, fabrication and load-out supervision, offshore installation, commissioning and late-life abandonment and decommissioning. Our delivery footprint spans **Asia-Pacific, the Middle East, Australia, Africa and Europe.**

50+

YEARS COMBINED OFFSHORE EXPERIENCE

800+

PIPELINES ENGINEERED & ASSURED

Global

APAC · ME · AUS · AFRICA

WHY VORYX — BUSINESS ADVANTAGE

Execution-First Engineering

Studies screened against real fabrication, transportation & installation constraints.

Real Offshore Experience

Yard fabrication, load-out, offshore campaigns supervised first-hand.

Operator + EPC DNA

Careers inside major operators, Tier-1 EPCs, yards and installation contractors.

Studies + Execution Support

One partner from FEED through ITT, fabrication and offshore execution.

Leaner Than Large Houses

Senior-led, low overhead, short decision chains, fast turnaround.

Decommissioning Specialty

Platform, subsea & pipeline abandonment, P&A, OSPAR / NOPSEMA / BSEE-aligned.

Technical + Commercial View

CAPEX/OPEX framing, value engineering & ITT preparation built-in.

Advanced FEA & Pipeline

Nonlinear FEA, lateral buckling, SAFEBUCK, strain-based design, ECA.

Decommissioning Studies & Advisory

- Conceptual decommissioning studies & comparative assessments
- Platform, subsea and pipeline abandonment
- Plug & Abandonment (P&A) concepts
- Removal vs. leave-in-place evaluations
- Waste management & disposal strategies
- Execution planning, scheduling and SoW / ITT deliverables preparation

Pipeline Engineering & FEA

- Conceptual, FEED and detailed design
- S-lay, J-lay and reel-lay methodologies
- Wall thickness, on-bottom stability, free-span and stress analysis
- Nonlinear FEA, lateral buckling and pipeline walking (SAFEBUCK-aligned)
- Fracture mechanics, ECA, strain-based design
- Pipe-soil interaction modelling and geohazard assessment
- CRA-lined / CRA-clad qualification for sour, CO₂ and hydrogen service

Environmental Impact Assessment (EIA)

- Environmental baseline & impact studies
- Comparative environmental assessments
- Mitigation & monitoring strategies
- Regulatory compliance, permitting & stakeholder engagement

Technical Studies & Assessments

- Structural & subsea asset assessments
- Heavy lift & load-out studies
- Transportation & installation analysis
- Onshore dismantling & yard assessments
- HAZID / HAZOP / risk assessments
- Constructability & operability reviews

Techno-Economic Studies

- CAPEX / OPEX estimation & benchmarking
- Economic modelling & sensitivity analysis
- Value engineering & lifecycle cost evaluation

Comparative Assessment & Option Selection

- Multi-criteria decision analysis (MCDA)
- Risk vs. cost vs. environmental trade-offs
- Option screening, ranking and regulatory justification reports

Offshore Project Management

- Project planning & execution strategy
- Contractor & vendor management
- Technical support and supervision during Fabrication & Load-out
- Technical support and supervision during EPCI & EPRD projects
- HSE, QA/QC & compliance oversight
- Schedule & cost control, risk and interface management

REGIONAL EXPERIENCE

ASIA-PACIFIC: Australia (NWS, Bass Strait, Carnarvon Basin), Indonesia, Philippines, Brunei, Malaysia, Timor-Leste, China

MIDDLE EAST: Qatar (Arabian Gulf — 800+ pipelines as TA-1), UAE, Saudi Arabia

AFRICA: Egypt (Gulf of Suez), Angola, Morocco, South Africa

EUROPE / AMERICAS: UK, Netherlands, Cyprus, USA (BSEE advisory), Canada, Brazil pre-salt

INDUSTRY EXPERIENCE — OPERATORS & CONTRACTORS

Operator Experience

QatarEnergy Shell BP Chevron Total Woodside INPEX Eni Petrobras Santos Apache PTTEP BHP Esso

EPC, Engineering & Installation Contractors

Worley McDermott Technip / TechnipFMC Subsea 7 KBR WOOD COOEC NPCC JP Kenny Cladtek Petrojet Shelf Subsea
Restore Subsea

SELECTED PROJECT EXPERIENCE

Operator and project names anonymised for confidentiality; disclosed on request.

DECOMMISSIONING · FEED

Offshore Field Decommissioning Programme — Middle East (2025 — Present)

27 platforms · 32 pipelines · subsea cables · three fields

FEED-phase decommissioning managing Tier-1 FEED contractor, cost & schedule, risk and execution strategies on behalf of the operator.

PIPELINE · CRA-LINED

32" Mechanically Lined Pipe Qualification — Caspian (World-First)

Full-scale reeling simulation · strain-based design · DNV-ST-F101

Led qualification of the world's first 32-inch MLP for a major Caspian field development.

EPCI · SUBSEA

Offshore Field Re-development Phase 1B — Arabian Gulf (EPIC)

5 platforms · 75 km pipelines · 4 umbilicals · 2 subsea skids

Engineering, fabrication, installation and commissioning. HDD pipeline installation and EPIC tender / award.

CCUS · CO₂ PIPELINE

CO₂ Pipeline System — Brazil Pre-Salt

CRA-lined pipelines for CO₂ transport · pre-salt offshore

Material selection, sour service / CO₂ integrity and long-term performance under demanding service conditions.

SUBSEA · DECOMMISSIONING

Subsea Field Decommissioning Engineering — NW Shelf, Australia

DSPM removal · 20 km flowlines · subsea manifolds & wellheads

Engineering and planning aligned with NOPSEMA expectations.

INTEGRITY · TA-1

Pipeline Technical Authority — 800+ Pipelines, Middle East Operator

Inspection strategy · pigging · anomaly assessment · FFS

Accountable for the integrity of 800+ offshore and onshore pipelines across the asset portfolio.

FABRICATION CSR

Offshore Platform Fabrication Supervision — Batam & Jebel Ali Yards

McDermott yards · load-out readiness · QA/QC · HSE

Client Site Representative supervising fabrication on behalf of the operator.

FEED · SUBSEA

Major Subsea Re-development FEED — Arabian Gulf

300 km pipelines · 150 km umbilicals · 110 km HV subsea power cables

Shore-crossing options (HDD, micro-tunnelling, open cut) and CO₂ pipeline study.

Mohamed Mostafa**Project Director — Offshore Delivery & Decommissioning**

25+ years delivering offshore and onshore oil & gas developments, with deep EPC / EPIC delivery experience across engineering, procurement, fabrication, installation and commissioning of offshore platforms, subsea production systems, rigid and flexible pipelines, umbilicals and subsea structures. Currently Project Manager (Decommissioning) leading FEED for an offshore programme covering 27 platforms, 32 pipelines and subsea cables for a major Middle East operator. Prior delivery roles with QatarEnergy, Shelf Subsea, Eni Australia, Technip, BHP Billiton, PTTEP, NPCC and fabrication leadership at McDermott Batam, TechnipFMC Zait Bay and Maadia / Jebel El-Zeit yards.

Credentials: PMP (Project Management Professional, valid Dec 2027) · BOSIET (OPITO, valid Oct 2026) · Diploma in Project Management, TAFE Perth · BSc Mechanical Engineering, Cairo University.

EPC / EPIC Delivery

Decommissioning

Fabrication Yard Management

Marine Spread & Installation

Risk & Interface Management

HSE Leadership

Senior CVs for additional team members are available on request for tender support.

DISCUSS YOUR OFFSHORE PROJECT

Whether you are scoping a decommissioning study, screening pipeline routes, preparing an ITT, or need senior technical supervision during fabrication and offshore execution — talk to engineers who have actually delivered the work.

Voryx Solutions

Email: info@voryx.solutions

Website: <https://voryx.solutions>

Response: Within one business day