

Capabilities

As an independent specialist with an established track record in subsea cable and pipeline engineering, we close the gap between risk and solutions by being a central hub of expertise and experience, to achieve the best results for our clients.

Conceptual Engineering



- Route Design including re-routing
- Burial Risk Assessments (CBRA)
- Risk Based Burial Design (RBBDD)
- Burial (Assessment) Studies (BAS)
- Trencher (Assessment) Studies
- Shore Approach Analysis
- Trenchless Landfall Technologies i.e. Horizontal Direction Drilling (HDD), Microtunnelling, Direct-Pipe
- Feasibility Studies
- Verification Studies
- Installation Engineering (including cable handling and monitoring)
- Free Span Analysis and Remedial
- Seabed Morphology / Mobile seabed
- Mobile Seabed Installation Analysis
- MetOcean including storm surges and workability
- Interfacing with land routing
- Capex and Opex
- Opex Cost and Risk Reduction

Permitting



- Applications
- Liaising
- Stakeholder Management & Support
- Compliance Issues
- Fisheries
- Port Authorities
- Environmental Impact Assessments
- Crossings Agreements
- Licensing Agreements
- Final Project Assessment (FPA) preparation
- Constraint Management

Technical & Commercial Due Diligence



- Insurer's Representatives
- Due Diligence
- Budgetary, Estimation Construction Budgets
- Schedule Risk Analysis
- Market Studies
- Competitive Analysis
- Financial, Investment Management
- Risk Management
- Qualitative and Quantitative Analysis (overall risk and schedule)

Risk Engineering and Project Management



- Employer's Engineer
- Installation
- Protection
- Burial
- Trenching
- Dredging
- Surveys
- UXO (UneXploded Ordnance)
- Trenchless Landfall Technologies i.e. Horizontal Direction Drilling (HDD), Microtunnelling, Direct-Pipe
- Seabed Intervention & Levelling
- Rock Placement
- Marine Engineering
- Client Representation
- Soil Risk
- Seabed Conditions Risk
- Weather Risk
- Contractor's Performance
- River, Port Crossings

Tendering, Contract & Procurement



- Developing scopes of work and ITT's
- Developing technical definitions
- Technical Evaluation & Selection
- Commercial Evaluation & Selection
- (Tendering) EU Procurement Rules
- Tendering Management & Support
- Contract and Tender Negotiation
- Procurement Strategies
- Independent Verification
- Daily Progress Report (DPR) analysis, schedule and variation negotiations

Contractual Management



- Project Management
- Interface Management
- Variation Management
- Independent Assessments
- Advisory
- Subject Management Expertise



Theoretical Expertise



meets



Practical Experience

Project & Interface Management



- Project Management
- Cost control
- Time scheduling
- Reporting
- Interface Management
- Cable Package Management
- Client Representation
- Peer Reviews
- Innovation
- Risk Management
- Opex Cost and Risk Reduction
- Training & Development
- 24/7 Helpdesk
- Operational Emergency Response

Rock Placement



- Protection Design including Rock Patches
- Scour Protection Design
- Rock Berm Design
- Filter, Armour, Grading
- Quarry, Quarries
- Pipeline and Cable Crossings
- Landfall and HDD Protection
- Risk Analysis – Impact, Workability
- Stability Studies
- Quantity Calculation
- Installation Methodology
- Modelling of Rock Berms (including 3D)
- Developing Scopes of Work, ITT's and Technical Requirements
- Evaluation and Selection of Contractors
- Project Management
- Client Representation

MetOcean



- Data services
- Hydrographic Surveys and MetOcean Measurement Campaigns
- Regional Hindcasts and Forecast Services
- Wave Climate Studies
- Wave Disturbance Studies
- Hydrodynamic Model Studies
- Weather Risk Analyses and Downtime Assessments
- Operational and Extreme design Conditions
- Computation of Hydrodynamic Loads and Forces on Marine Structures
- MetOcean Masterclasses and Workshops
- Peer Review of MetOcean and Downtime Studies Performed by Other Companies

Cable Repairs (Operations & Maintenance)



- Cable Damage – Prevention Strategies ie Surveys, AIS and GIS
- Repair Preparedness & Response Strategies
- Business Continuity
- Planned Preparedness
- Planned Response
- Capex/Opex
- Repair Management onshore and offshore
- Project Management
- Offshore Management
- Methodology and Procedure Reviews
- Fault Finding and Forensic Surveys
- Operational Emergency Response
- Audits – verification and gap assessments
- GIS
- AIS
- Cable Monitoring
- Exposed Cables & Remedial Solutions
- Client Representation
- 24/7

Survey incl. UXO



- Geotechnical including Desktop Studies
- Geophysical including Desktop Studies
- UXO including Desktop Studies
- Cable Tracking, Monitoring & Inspection
- Depth of Burial Surveys
- Forensic and Fault Finding
- Specialist Surveys ie Benthic
- Developing Scopes of Work, ITT's and Technical Requirements
- Evaluation and Selection of Contractors
- Project Management
- Client Representation

Floating Offshore Wind Farms



- Field Lay-out
- Cable Route covering Engineering & Design
- Installation Analysis
- Mooring Analysis
- Dynamic Analysis
- Hook-ups etc

Dredging



- Design
- Volume Calculations
- Borrowing
- Remedial Burial
- Terrain Modelling
- Installation Methodology
- Seabed Modelling (including 3D)
- Developing scopes of work, ITT's and technical requirements
- Evaluation and Selection of Contractors
- Project Management
- Client Representation
- Harbour Maintenance
- Turbidity

QHSE and QC



- Developing, implementing, maintaining and supporting of Business and Quality and HSE Management Systems
- Certification Management
- Regulatory Compliance and Monitoring
- Auditor, Auditing and Gap Assessments
- Overall Project Risk management
- Coordinating Vessel and Equipment Assurance/Auditing including Common Marine Inspection Document (CMID) Audits
- Incident Management
- Coordinating Offshore Safety Advisors
- Quality Control & Quality Assurance
- Site Supervision

Electrical Part Power Cables



- Basic electrical cable system design
- Drafting specifications
- Electrotechnical support during tendering
- Cable system design reviews
- Develop/review of test programs and ITPs
- Evaluation of prequalification/type test reports
- Cable factory audits
- Cable manufacturing process verification audits
- (Daily) quality control during production
- Clients representative during type testing / factory acceptance testing / load-out testing
- Review/evaluation of non-conformity reporting
- Submarine cable system courses
- Feasibility Studies
- Verification Studies
- Client Representation in Forensic Surveys

Primo Marine – Subsea Cable and Pipeline Engineering Excellence

Onshore and Offshore Engineering and Management for Subsea Cables and Pipelines.
Your Helpdesk for Installation, Protection and Maintenance Challenges.

www.primo-marine.com