

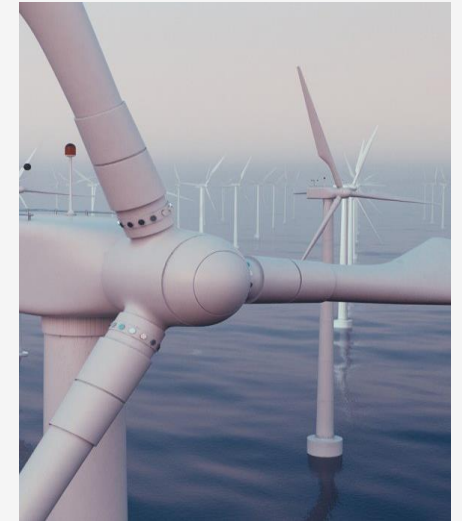


Engineering consultancy  
services from concept to  
decommissioning

# Overview

Optimus Plus is an engineering consultancy that provides expertise in decision and risk analysis, engineering design, and project management, primarily within the oil and gas, renewable energy, and infrastructure sectors.

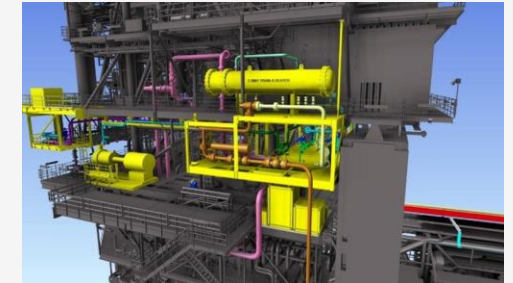
The company supports clients in concept selection, front-end engineering design (FEED), detailed design, and project execution, ensuring that projects are efficient, cost-effective, and meet industry regulations.



# About Us

Optimus is a well-established, highly experienced, specialist engineering and consultancy company, combining decades of proven expertise and strategic insight to deliver simple, responsive and cost-effective solutions for the energy industry from concept to decommissioning.

Our designers and engineers fully understand the technical commercial and constructability considerations that drive engineering projects at every stage of the asset lifecycle. Working together as one team, we deliver practical and professional thinking from design through to operation.



Core services include:

- Conceptual Design / pre-FEED
- FEED
- Multi-Discipline Detailed Design
- Specialist Engineering Services
- Asset Life Extension and Optimisation
- Offshore Survey including laser scanning
- Operational Support including troubleshooting
- Decommissioning Engineering Services
- Structural Analysis
- Pipe Stress Analysis
- Availability/ Maintainability Modelling and Reviews
- Decision and Risk Management
- HAZOP/ HAZID/ SIL/ LOPA assessments
- Safety Studies, including Safety Case Reviews
- Contracting and Supply Chain



# Concept to Decommissioning

## COMBINING ENGINEERING & CONSULTANCY SERVICES TO DELIVER FROM CONCEPT TO DECOMMISSIONING



### MULTI DISCIPLINE ENGINEERING

Professional team of multi discipline engineers and designers delivering all traditional services, including process, structural, electrical, control, instrumentation, piping and mechanical.



### CONSULTANCY – TRUSTED ADVISOR

Providing Technical Authorities and subject matter experts to support the Operators team, including embedding key individuals into the client's organisation. Also, owner's engineer responsibilities to assure quality and minimise risk.



### FRONT END PROFESSIONALS

Successful track record and high calibre professionals to execute Feasibility, Concept and pre-FEED engineering studies to support both new developments and brownfield modification projects.



### SPECIALIST ENGINEERING

The “go-to” specialists for challenging and complex engineering scopes requiring new solutions and innovation. Caisson specialists for “Assess – React – Repair/Mitigate – Removal & Replacement”. Also, nich and specialist disciplines including “Decision & Risk” and “Technical Safety & Loss Prevention”.



### STRUCTURAL AUTHORITY

All aspects of structural integrity management and support, including asset models, analysis, integrity assessments, Finite Element Analysis, concept, detail design, construction, 3-D scan surveys and modelling.



### EMISSION REDUCTIONS & ENERGY TRANSITION

Supporting clients to both reduce emissions from existing assets and in diversification into the growing new energy markets of offshore renewables, carbon capture & storage and hydrogen.

# Capability

From front end and conceptual study work, to detailed design, late life asset management & decommissioning services, we have your bases covered.



## Process & Technical Safety

- Field Development
- Feasibility / Concept
- FEED
- Detailed Design
- Commissioning
- Close Out
- Technical safety engineering
- Safety studies
- HAZOP and HAZID
- SIL/ LOPA assessment

## Structural Engineering & Integrity Management

- Concept and FEED studies
- Brownfield modifications
- Greenfield Projects
- Specification of long lead and bulk items
- 3D modelling (equipment / cable routing)

## Electrical & Instrument Engineering

- Full detail design capability
- Finite Element Analysis
- Architectural Design
- Fatigue assessment
- Corrosion Protection Design
- Hydrodynamics & Naval Architecture
- Dynamic Analysis
- Computational Fluid Dynamics
- Structural Integrity Management Services

## Piping & Mechanical

- Brownfield modifications
- Dimensional surveys
- Repair orders
- Overstress and vibration analysis
- Concept and FEED Studies
- Valve selection, specification and delivery management
- Technical assurance
- Pipeline modifications (topsides)

## Decision & Risk

- Corporate & Project Risk Management
- Cost & Schedule Risk Analysis
- Shutdown/TAR risk modelling & Work prioritisation
- Option Selection/Comparative Assessments
- Complex technical & commercial Decision Support
- Project Framing/ Decision Support packages
- RAM Modelling
- Economics & Decomm Liability Estimates
- Facilitation & Training

# Thank you for your time

We welcome any questions

OPTIMUS PLUS (ABERDEEN) LTD

t. +44 (0)1224 264500

e. [enquiries@optimusaberdeen.com](mailto:enquiries@optimusaberdeen.com)

a. Ardent West, North Esplanade West, Aberdeen AB11 5RJ

[OPTIMUSABERDEEN.COM](http://OPTIMUSABERDEEN.COM)



ABERDEEN

t. +44 (0)1224 28 29 00

e. [info@pdms-group.com](mailto:info@pdms-group.com)

a. Ardent West,  
North Esplanade West,  
Aberdeen AB11 5QH

[PDMS-GROUP.COM](http://PDMS-GROUP.COM)

GLASGOW

t. +44 (0)1224 28 29 00

e. [info@pdms-group.com](mailto:info@pdms-group.com)

a. 1.3 Queens House,  
19st Vincent Place,  
Glasgow G1 2DT

BAKU

t. +44 (0)1224 28 29 00

e. [info@pdms-group.com](mailto:info@pdms-group.com)

a. 18th Floor, Demirchi Tower,  
37 Khojali Avenue, Baku,  
Azerbaijan AZ 1025



SYNERGIE ENVIRON

t. +44 (0)141 263 0020

e. [info@synergie-environ.co.uk](mailto:info@synergie-environ.co.uk)

a. 1.1 Queens House, 19  
St Vincent Place,  
Glasgow G1 2DT

[SYNERGIE-ENVIRON.CO.UK](http://SYNERGIE-ENVIRON.CO.UK)