Part Energy Damoon

PED
OFFSHORE ENGINEERING

PED is an engineering consultant in the delivery of offshore projects and services for the oil and gas industry.
We create sustainable value by delivering efficient offshore solutions.

Our vision as the trusted sustainability partner creating valued, is to be a highly successful Engineering consulting company in energy sector and to provide wide range of services in the field of offshore oil and gas, renewable energy, O&M, and AIMS.

About Us

With 20 years of expertise and knowledge in energy field we provide expert services in the conceptual, FEED, detailed design, installation, commissioning, operation and maintenance of oil and gas projects.

We committed to Provide the professional service to all our clients.

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Some of Our Team Experiences

Our Team have worked on over 25 subsea design projects including the design of rigid pipelines, risers, floating hose, subsea cables, structural clamps, spools, cathodic protection systems, subsea structures, PLEM, offload terminals, SPM, PIG launchers & receivers and crossing support.

- Salman Offshore Facilities (EPC3)
- South Pars Gas Field Phases 9&10
- South Pars Gas Field Phases 12 & SPM
- South Pars Gas Field Phases 14
- South Pars Gas Field Phases 15 &16
- South Pars Gas Field Phases 17 &18
- South Pars Gas Field Phases 19 & SPM
- South Pars Gas Field Phases 20 &21
- Reshadat Renovation & Development
- Sirri – Assalouyeh Pipeline
- Foroozan & Esfandiar
- Kish Gorzeh Subsea Pipeline and FOC
- Jask Terminal & Marine Facilities
- Ganaveh-Kharg Pipeline Survey and Engineering

PED is directly involved in the onshore and offshore pipeline and offshore terminals design.

Our Services

Our engineering expertise and specialist technologies enable us to engage early so that our multi-disciplinary teams can design and deliver the solutions as per our client request.

- Feasibility Study
- Cost Estimation
- Basic Engineering
- Detailed Engineering
- Preocurment Engineering
- Construction Engineering
- Operaqting and Maintenance Management
- Asset Integrity Management

continuously develop
. knowledge and expertise
. apply latest technologies
. new ways of thinking
in helping our clients

We are with you at all stages of the project.
Our team ensures that design are compliant with offshore best practices and code requirements, in accordance with environmental and HSE considerations. Our proficiency in using the engineering software makes projects safe and reliable. With our experience, project costs will also be optimized giving your projects the highest profit.

PED has taken responsibility for all phases of subsea projects,

Our mission is to continuously develop our knowledge and expertise and apply latest technologies and new ways of thinking in helping our clients in their projects and activities. Maintain the highest standards of quality and sustainability and act responsibly at all times. Build a culture of excellence by efficient and safe execution of all our services. Achieve cost effective, safe and environmentally-sound solutions, using superior technology.

Our Capabilities

We have developed all necessary design tools to meet customer needs.
Our design tools include spreadsheets, FEA modeling and software that use the latest design methods.

Offshore & Onshore Pipeline

- Geo-physic and Geo-technic survey SOW and report review
- Pipeline route selection and route alignment drawings (Fledermaus & Auto Cad)
- Pipeline flow assurance and line sizing (OLGA)
- Material selection and corrosion study
- Wall thickness and steel grade
- Stability analysis and weight coating
- Pipeline Cathodic protection system design
- Riser and riser clamp design (Auto Pipe)
- Expansion spool design (Auto Pipe)
- Pipeline shore approach and trenching design
- Pipeline backfill and rock dump design
- Pipeline Shore approach HDD design
- Submarine pipeline crossing design
- Pipeline buckling analysis using FE
- Pipe spanning analysis and bottom roughness
- Pipeline installation feasibility study
- Welding and NDT Specification and procedure
- Pipeline pre-commissioning and Hydrotest
- Spool installation analysis and procedure
- Current, wave and wind simulation by 2D&3D software (Mike & Delft 3D)
- Seabed and Coastal Morphology Study (Mike)
- Onshore pipeline design (ASME B31.8 & B31.4)

Offshore Terminals

- Design and Egineering of Single Point Mooring (SPM) systems including Turret Buoys and Turntable Buoys
- Mooring Systems Design and Analysis Submarine Hose Design and Analysis
- Hull and Piping Design and Structural Analysis
- PLEM and Pile Design
- Material election and Procurement Engineering
- Construction and Installation Engineering
- Electrical, Instrument and Telemetry Design
- Pre-commissioning and Commissiong Supervision

Asset Integrity Management

- Damage mechanism assessment
- Material selection and corrosion study
- Corrosion Management plan
- Risk-Based Inspection (RBI)
- Fitness for Service (FFS)
- Engineering Criticality Assessment (ECA)
- Remaining Life and Life Extension Assessments
- Failure analysis
- Mechanical failure assessments