



UK Trade
& Investment



A Guide to UK Subsea Capability for the Oil and Gas Industry





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Peritus International		Subsea Deployment Systems Ltd			
Petrex Ltd		Subsea Innovation Ltd			
PhotoSynergy Ltd		Subsea Protection Systems			
Pipe and Tube Machines Ltd		Surface Technology International Limited			
PRD Fasteners Ltd t/a LoneStar PRD		Swagelining Limited			
Premier Chemicals Ltd		Swathe Services			
Prospect		Swiftool Precision Engineering Ltd			
Pulse Structural Monitoring					

Introduction – Subsea UK

Since the discovery of oil in the UK Continental Shelf (UKCS) forty years ago, British subsea expertise and technology have been a fundamental part of extracting hydrocarbons from offshore oil and gas fields. In 1974 the first oil in the North Sea was produced thanks to subsea wells and flowlines. The province became the largest market for subsea production with rapid technological developments necessary to keep pace with the oil boom. This pioneering activity in the North Sea where the first subsea technologies, processes and systems were tested, has formed the foundation for a burgeoning industry in the UK whose skills and know-how are sought after around the world.



From the early days operating at relatively shallow depths of tens of metres, underwater technology has developed to the point that it can now operate at depths of several thousand metres in some of the harshest environments across the globe. Due to the changing nature of the work undertaken in the North Sea, the UK subsea industry has become renowned for its ability to adapt to meet new challenges. By continually innovating, the sector has gained an unrivalled reputation as a world-leader in subsea engineering, technology, skills and services.

Much of the technology and skills still deployed today have their roots in the North Sea, and more specifically, Aberdeen. The region is home to one of the largest centres of subsea excellence in the world. This is reflected in the number of global companies choosing to headquarter their operations in the north-east of Scotland. While the North Sea may have been the test bed for subsea technology and continues to offer potential for further exploitation, much of the growth for these companies now lies in international waters.

Subsea technology is vital to offshore production, unlocking harder to reach, deeper reserves and improving the economics of marginal fields in shallow waters with tie-backs of small reservoirs into existing facilities.

With more challenging reservoirs, often at depths of up to 3000m below the surface, subsea technology including Autonomous Underwater Vehicles (AUVs) and Remotely Operated Vehicles (ROVs) are being deployed regularly. In fact, over 50% of all commercial ROVs used globally are designed and manufactured in Britain.

There is now a complex array of subsea infrastructure criss-crossing sea beds from the North Sea to the Gulf of Mexico and offshore Brazil, Africa and Australia. As capital expenditure in new subsea pipelines and hardware increases dramatically, so too does operational spend and the need to repair and maintain equipment. It is therefore no surprise that inspection, repair and maintenance is now a rapidly growing niche within the subsea industry and an area in which the UK excels.

Over \$135 billion of spend in subsea hardware is anticipated in the next five years with pipelines accounting for half of this forecast expenditure. Major pipeline projects are due in Eastern Europe, the Former Soviet Union, Asia and the Middle-east. Spend on subsea production hardware, subsea umbilicals, risers and flowlines as well as subsea processing driven by the deepwater regions will also rise.

Subsea design and manufacture isn't limited to the traditional hardware of flowlines, risers, ROVs and umbilicals however. The UK has established a number of centres of excellence tasked with developing a range of sophisticated tools and materials, from specialist metals and high-tech underwater electronics, to cameras, sonars and sensors.

With almost a half of the global marketshare, the UK sector continues to enjoy healthy overseas sales. UK exports are valued at \$7 billion, equivalent to 43% of the total value of the industry. Engineering and manufacturing companies generate just over 25%, while service providers account for 26% of these revenues. Exports extend further than simply goods; where there are gaps in local knowledge, British subsea expertise and know-how have been called upon across the globe using one of its key strengths – an inter-connected supply chain. As overseas markets look to replicate this model, the British subsea industry continues to lead the way.

With over 750 companies forming the subsea supply chain, supporting in excess of 66,000 jobs and generating revenues of \$14.5 billion, the British subsea industry is unparalleled. This directory provides details of a number of those companies, from niche enterprises to industry heavy-weights, they exemplify the very best of the sector.

If you would like to know more about the UK subsea sector, please make use of the contacts on pages 10-65.

UKTI and Subsea UK are able to help you identify and make contact with companies who have the relevant subsea expertise, technology, products and services you require.

The UK subsea industry at a glance

Annual revenues of \$14.5 billion, representing 45% of the global market.

UK exports valued at \$7 billion, comprising 43% of the total value of the industry.

Over 750 companies operating in the sector.

Supports 66,000 jobs.

Source: 2013 Subsea Business Activity Review, Subsea UK

About this guide

This guide has been produced by UK Trade & Investment with the assistance of Subsea UK. It provides information on the capabilities of many of the UK companies involved in the subsea oil and gas sector.

Among the full spectrum of subsea capabilities featured are:

- Subsea engineering
- Equipment manufacturers
- Inspection/testing
- Software modelling and simulation
- Pipeline integrity
- Training
- Project and asset management
- Subsea communication and control
- Diving and ROV services
- Subsea construction

Organisations are listed in alphabetical order by name, including their website and contact details (where these have been provided), followed by summarised information on the services provided.

Short example case studies have been used to illustrate a range of capabilities – these case studies have been provided by the companies themselves.

A matrix of key services and products provided by the companies listed in this guide can be found on pages 66-75.



Whilst every care has been taken in compiling the information in this guide, UK Trade & Investment (UKTI) and Subsea UK cannot be held liable for mistakes or omissions. Inclusion of any organisation in this guide does not constitute approval or endorsement by UKTI or Subsea UK in any way. The information on specific organisations was provided by the companies themselves and therefore the opinions and ideas expressed do not necessarily reflect those of UK Trade & Investment or Subsea UK.

UK Trade & Investment overview

UK Trade & Investment is the Government Department that helps UK-based companies succeed in the global economy. We also help overseas companies bring their high-quality investment to the UK's dynamic economy, acknowledged as Europe's best place from which to succeed in global business.

UK Trade & Investment offers expertise and contacts through its extensive network of specialists in the UK and in British embassies and other diplomatic offices around the world.

We provide companies with the tools they require to be competitive on the world stage.

Here's an overview of how UK Trade & Investment can help foster growth:

Exporting

- Support to build export capability, with a range of services to assist both experienced exporters and those exporting for the first time.
- If you're a new or relatively inexperienced export SME and would like expert, first-hand support you'll benefit from our **Passport to Export** programme. Providing all the tools exporting companies need to grow their business, the programme includes advice from an International Trade Adviser to help develop an export strategy and identify gaps in international trade skills. 12 month's face-to-face interactive training is provided, together with access to key overseas markets and introductions to networking and tradeshow opportunities.
- If you're already exporting and looking to diversify into new international markets, you'll benefit from our **Gateway to Global Growth** programme. Providing a 12 month programme of support with access

to an experienced International Trade Adviser, you will receive guidance on an action plan tailored to your business needs, together with advice assistance and training to improve your export capabilities.

- UKTI also operates a range of other services including a Mid-sized Business Programme, an Overseas Marketing Introduction Service and a free Business Opportunities service that provides tailored monthly email updates featuring business and event leads.

Invest in the UK

UKTI provides impartial advice on where and how to set up a business in the UK including:

- In-depth, tailored information, including advice on financing, recruitment and activities such as R&D, tax, human capital and visas.
- Access, through the UK Advisory Network, to lists of professional service organisations, such as accountants, lawyers and banks, that can support your move to the UK.
- Encouragement for partnerships through our portfolio of services and practical help in the field, including visits to suitable locations, finding business partners and accessing financial incentives.
- A first-class aftercare service, offering investors an opportunity to raise questions and issues about their investment in the UK.



UK Trade
& Investment



For further information please
visit us at www.ukti.gov.uk

Selected Trade Associations and Business Support Organisations

Subsea UK



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Subsea UK is the champion for the UK subsea industry. We act for the entire supply chain bringing together operators, contractors, suppliers and people in the industry.

With over 53,000 employees, worth £8.9 billion in services and products and with over 750 companies, the UK subsea industry sector leads the world in experience, innovation and technology. The UK will maintain a leading technological edge by sustaining and expanding this important business sector.

Whether you are a company looking to join and reap the benefits or an individual looking to develop your career in the subsea industry, explore our website or contact us to find out how Subsea UK can help you, your business and your industry.

Aberdeenshire Council



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With a high quality of life, a global centre of excellence in subsea engineering in Westhill, the area's main deepwater port at Peterhead and all part of the supply chain in residence, Aberdeenshire is the place to be. Aberdeenshire Council's Business Development Executives, industry specialists and support staff are available to provide advice and information on a range of topics regarding all aspects of business and trade development.

Decom North Sea



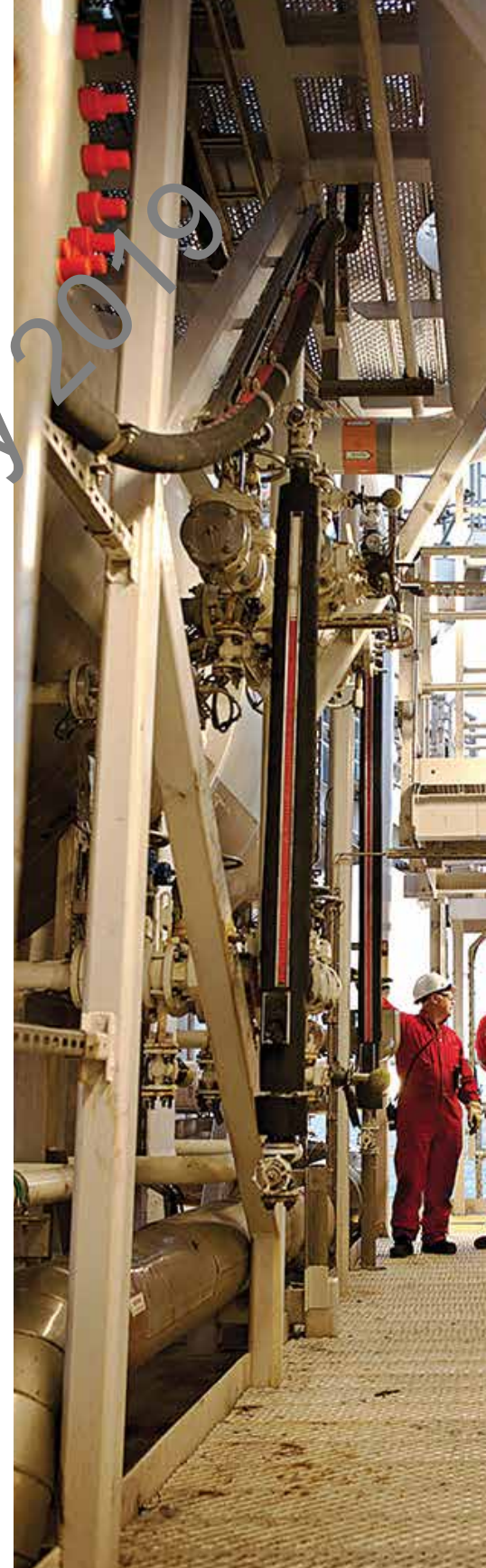
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www.decomnorthsea.com

Decom North Sea is an industry forum set up to maximise the business opportunities presented by North Sea decommissioning. The main objective of the forum is to deliver practical industry support to improve knowledge transfer and stimulate collaborative activities across the North Sea supply chain.





We are working with the North Sea supply chain to create and sustain jobs and prosperity.

We are working with the operators providing reliable, safe and cost-effective solutions to decommissioning challenges.

Whether providing unrivalled business intelligence, putting our members in front of key decision makers around the globe or delivering a range of professional training services the EIC can give you the competitive edge.

Oil & Gas UK

The EIC



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The EIC is the leading trade association providing dedicated services to help members understand, identify and pursue business opportunities globally. Established in 1943, the EIC is a not-for-profit organisation with a large membership of UK-registered companies who deliver goods and services to the energy industries worldwide.

The EIC's membership operates across the oil & gas, subsea and power industries, collectively employing over a million people and generating over £100 billion in revenues out of their UK-based operations.

Headquartered in London, the EIC has a global network of offices, from regional UK offices in Billingham and Aberdeen, to international offices in Rio de Janeiro, Houston, Dubai, Singapore and Beijing.



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Oil & Gas UK is the leading representative body for the UK offshore oil and gas industry, with over 400 member companies. Membership is open to all companies active in the UK continental shelf, from super majors to large contractor businesses and from independent oil companies to SMEs working in the supply chain.

Its aim is to strengthen the long-term health of the offshore oil and gas industry in the United Kingdom by working closely with companies across the sector, governments and all other stakeholders.

Withdrawn 17 May 2019

Directory of UK subsea companies

Withdrawn 17 May 2019



The global subsea sector has grown since 2010 and is forecast to double again by 2017. Deepwater developments in West Africa, Brazil and the Gulf of Mexico are expected to drive this expenditure increase.

Source: 2013 Subsea Business Activity Review, Subsea UK

Directory of UK subsea companies

2H Offshore



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2H Offshore is a global engineering contractor specialising in the design, structural analysis and integrity management of riser and conductor systems used in the drilling and production of offshore oil and gas. Our capability and experience covers all types of risers, from shallow water fixed platform conductors, to drilling and production risers used in ultra-deep water.

3ks Engineering Company Ltd

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Carmarthenshire
Wales SA15 2DN

www.3ksengineering.com

Large fabrications & heavy machining, specialising in the oil & gas market sectors.

3M



Sean Appleton

3M Centre, Cain Road
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www.3m.co.uk/oilandgas

3M supplies thousands of products to the global oil and gas industry and its applications. From everyday essentials such as respirators, abrasives and electrical connectors to advanced materials for preventing corrosion and reducing the density of downhole cements. 3M technologies offer you a wealth of ingenious solutions to many of today's toughest challenges.

ACE Technologies (UK) Ltd

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Project management services, project control, project planning, cost estimating, cost engineering, project evaluation review.

ADIL



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ADIL is an independent consultancy providing state of the art project management support to the energy industry. With an unrivalled capability and knowledge, we maximise value for our clients by managing risk, solving problems and taking full ownership of project delivery. We pride ourselves in managing our clients' assets as if they were our own. Our services include: project and developments consultancy; operations and performance improvement; supply chain consultancy; HSE consultancy; business products; and underwater consultancy services.

AGR Facilities Solutions AS



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AGR's Facilities Solutions provides Integrated Field Development with a multi-discipline approach, driven by an experienced and dedicated team. The division is part of ACF, a global oil service company, delivering well, reservoir and facilities engineering services in addition to consultancy manpower, software and tailored training. Facilities Solutions unrivalled project execution optimises field development solutions.

AIBex Engineering Ltd

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Chapel of Garioch, Inverurie
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Subsea engineering, modelling and consultancy. Provision of subsea expertise in field development, architectural modelling, and general subsea engineering consultancy. Equipment specification, qualification, testing definition, technical and commercial risk assessment and management, technical reviews, and training.

Allspeeds Ltd

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Allspeeds Ltd, based in the UK, provide engineering solutions and manufactures hydraulic equipment and tools for a diverse range of industries including the military, aviation, rail, bridging, construction, oil and gas, subsea and nuclear. We can provide bespoke tooling to fit around your needs and we can be fully flexible to give customers exactly what they need.

Alnmaritec Ltd



Martin Roberts
Wimbourne Quay
NE24 7PX
www.alnmaritec.co.uk

Alnmaritec is a modern and innovative boatbuilding company which prides itself in providing practical, cost-effective and original solutions for commercial workboat applications. The company develops customised designs for an extensive variety of industries and applications, dive support, survey and hose & line handling.

Ambix NDT Ltd



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Ambix NDT is a non destructive testing, inspection, quality control and quality assurance company based in the North West of England working across a range of industry sectors, specialising in non destructive testing of welded fabrications for the subsea oil and gas, nuclear, marine and structural engineering sectors. We provide ISO 9712 compliant NDT technicians qualified to at least PCN Level 2 in MPI, DPI, UT and Visual Testing.

AMISIS Limited

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- Innovative Engineering
- FEED
- Asset Management
- Asset Integrity
- R&D
- Subsea Diving and ROV
- Operations Management
- Storage and Preservation

Apollo Offshore Engineering



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Apollo delivers engineering efficiency to your business. Whether you have an engineering problem that can be taken away, or you need additional resource to integrate into your team, our specialist energy industry expertise and capability is there whenever you need it. From concept through design, fabrication installation and operation to decommissioning, Apollo provides your business with appropriate engineering solutions. And because we are passionate about engineering we attract great people who enjoy what they do and care deeply about meeting your needs.

Applied Acoustic Engineering Ltd



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Designer and manufacturer of acoustic systems for positioning and tracking of underwater equipment and moving targets, and marine seismic survey equipment for seabed/sub-bottom, profiling. Products are in use across the world by energy companies (oil, gas and renewable), government agencies, and academic research institutions all of which are supported by a network of overseas agents and service centres for technical advice and training. The company is a winner of The Queen's Award for International Trade and will be celebrating 25 years' manufacturing subsea innovative products in 2014.

AS Mosley & Co Ltd



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AS Mosley is a growing engineering analysis consultancy specialising in subsea design and analysis for the oil and gas industry.

Ashtead Technology



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Focused on service excellence, Ashtead Technology provides fully integrated subsea equipment solutions including rental equipment, calibration, repair and maintenance, offshore personnel and bespoke engineered solutions. Our state of the art rental equipment fleet includes positioning equipment, ROV sensors and tooling, geophysical, hydrographic and metocean equipment, video, inspection, diving and NDT equipment. Ashtead Technology provides global reach and local service from its facilities in Aberdeen, London, Houston and Singapore and via agents in Norway, Australia and the UAE.

Atkins



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Atkins applies technical excellence to deliver fully integrated, multidiscipline solutions to the most challenging subsea problems, with particular emphasis on deepwater and high pressure, high temperature (HPHT) facilities. We have class-leading subsea skills in flow assurance, pipeline and subsea engineering, materials and corrosion engineering, system design, integrity management, flexible riser systems, and risk and reliability. With offices in the UK, Norway, USA and Australia, we can deliver our expertise wherever it is required.

Atlas



Katy Air
Aberdeen Energy Park
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Atlas delivers innovative learning, compliance and competency solutions to more than 750 organisations in the oil & gas and safety-critical industries worldwide. Its technology-led solutions are used to deliver over 350,000 learning events across 40 countries and in more than 30 languages every year, with the specific aim of helping industry improve business performance while reducing legislative and operational risk through the creation of a safer, more highly skilled workforce.

Atmos International Ltd



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Atmos International provide pipeline leak and detection and simulation technology to the oil, gas, water and associated industries. The company was founded in 1995 in the UK by the inventor of the statistical pipeline leak detection system – Atmos Pipe, now one of a suite of leak detection solutions from Atmos. These technologies are now implemented on over 600 pipelines in 55 countries including major oil and gas companies such as Shell, BP, Exxon, Mobil and Total.

Aubin Integrity



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Aubin Integrity, a division of Aubin Group, is a specialist and developer of Integrity Management solutions. The revolutionary range of products include advanced sealants and plugging materials for restoring integrity and safety to offshore assets. The integrity products are able to mitigate corrosion and maximise the life of pipework and offshore structures by providing permanent or temporary solutions in often urgent situations. The products can be configured to specific properties, viscosities, gravities and can be used to create impermeable barriers in hard-to-reach locations.

Aubin Pipelines



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Aubin Pipelines develop project-specific engineered solutions for contaminated and compromised pipelines around the world. Part of Aubin Group, the Pipelines division's range of gel pig and pipeline gel technologies allow the removal of liquids and solids from previously unpiggable pipelines. Scaled, telescopic or otherwise restricted pipelines are not an obstacle to the product range's deformable, elastic, flow-enhancing gel materials which can perform in all climates and environments. Aubin Pipelines offers solutions used as invaluable resources for pipeline engineers worldwide.

A-B

Aubin Subsea

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Aubin Subsea, part of Aubin Group, is an innovative subsea technology division, specialising in fixed and variable buoyancy, sealing and insulation solutions. The division's liquid buoyancy technology allows for subsea structures to be moved with ease using fixed and variable buoyant force. The patented lift technology offers ground-breaking operational solutions to deepwater lifting, providing precision control and consistent performance with the ability to accurately manoeuvre submerged objects at depths up to 4,000 metres.

b solutions

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b solutions are a commercially independent educational establishment with training delivered across North East Scotland. As part of the commercial training arm of North East Scotland College, our trainers have a wealth of practical experience which has been honed with extensive industry experience and is coupled with theoretical knowledge enhanced at the college. Offering nationally and internationally recognised training courses we specialise in hydraulic training; welding and nautical courses at our maritime academy.

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With more than 33 years' experience in polymer and elastomer design, engineering and manufacturing, Balmoral provides a global service from concept development through design, manufacturing and testing. Products used around the world include rigid, dynamic and production riser buoyancy, ROV/AUV and subsurface buoyancy, elastomer cable protectors, bend restrictors, stiffeners, clamps, VIV strakes and riser protection guards. The company also operates its own hyperbaric test centre in Aberdeen which accommodates a variety of products from small systems through to the largest rigid riser modules.

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www.beaufordengineers.co.uk

Beauford Engineers specialise in the turn-key manufacture of high integrity technical fabrications, structures and projects to OEMs and EPCs in the offshore and subsea sectors. Typical items include: frames, guides, mats, PLETs, PLEMs, panels, reelers etc. The company's 30,000 sq.m facility provides a full range of engineering services, including design, project management, coded fabrication, heavy and CNC machining, heat treatment, blast and paint, fit out, assembly and test. A full plant and capacity list is provided on the website. Certified to ISO9001 & 14001. FPAL: 10053131.

Bibby Offshore (BOL)

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www.bibbyoffshore.com

Bibby Offshore Limited (BOL) deliver a diverse range of subsea construction projects for operators worldwide. Services include project management and engineering, diving operations, construction services, and inspection, repair and maintenance (IRM). Committed to the subsea market, Bibby Offshore is well positioned to deliver significantly enhanced capabilities. Along with sister company Bibby Remote Intervention (BRIL), Bibby Offshore undertake subsea projects using an international fleet of subsea support vessels and Remotely Operated Vehicles (ROVs).

Bibby Remote Intervention Ltd (BRIL)



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Bibby Remote Intervention Limited (BRIL), formed in 2011, is a subsidiary of Bibby Offshore Holdings Limited. BRIL offer a full in-house package delivering innovative value added solutions through provision of diverless intervention and world-class remotely-operated vehicle (ROV) services. BRILs subsea capabilities are focussed particularly on Inspection, Repair and Maintenance (IRM), construction support and ROV Drill support. BRIL and Bibby Offshore together, undertake subsea projects using an international fleet of subsea support vessels and Remotely Operated Vehicles (ROVs).

BiS Valves Limited



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Design – Manufacturing – Testing – Quality. BiS Valves is an internationally recognised company with over 30 years' experience in the design and manufacture of a wide range of small bore stainless steel pressure and flow control valves for high pressure liquid and gas. Operating in a variety of sectors, we are a leading supplier to the offshore oil and gas. Industry for topside, subsea and downhole applications where quality, reliability and safety are critical. With an extensive range of standard products and a bespoke design service we aim to provide the right solutions for your applications.

Bodycote



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Bodycote, the world's leading thermal processing company, provides manufacturers with vital heat treatments, metal joining, hot isostatic pressing and coating services, offering an extensive range of surface engineering solutions for the oil & gas industry. Thermal processing is a vital part of any manufacturing process and includes a variety of techniques and specialised engineering processes which improve the properties of metals and alloys and extend the life of components. Contact Bodycote to find out how we can make your products work harder for longer.

Bowtech Products Ltd



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We design, manufacture and supply market leading products to the subsea ROV, AUV, defence, nuclear and leisure markets. From patentable designs through to unique manufacturing techniques, our underwater cameras, video systems and lights operate in harsh environments, hazardous areas and underwater, to any ocean depth. Bowtech manufactured cameras include survey, observation, inspection quality HD (High Definition), ULL (Ultra Low Light), low cost colour and monochrome cameras matched by complimentary LED underwater lights and lighting systems to complete the range.

Brogan Fuels

BROGAN FUELS

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Brogan Fuels has a deep knowledge of all lubricant requirements ranging from marine, agricultural, automotive and industrial.

Buchan Technical Services Limited



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Buchan Technical Services Ltd, a member of James Fisher and Sons plc, was established in 1997 to provide equipment rental and recruitment services to the oil and gas industry. We have hands on experience of most oil and gas related tasks and this knowledge allows us to best meet your recruitment and equipment rental requirements. Many of our up to date vacancies and equipment specification sheets can be found on our website. ISO 9001, ISO 14001 & OHSAS 18001 Registered, 1st Point Assessment Registered and members of Recruitment and Employment Confederation.

Buckleys (UVRAL) Ltd



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Buckleys (UVRAL) Ltd manufactured sub-sea inspection equipment allows accurate corrosion monitoring of underwater structures including jetties, drilling platforms, ship hulls and sub-sea pipelines. The Bathycorrometer is a well-proven inspection tool for measuring the levels of corrosion, light and easy to use this hand-held unit enables divers to obtain accurate readings of structures at the point of contact. The first Bathycorrometer unit went into rigorous North Sea service in 1971. Customer satisfaction with the performance of Bathycorrometers has led to use worldwide.

Byron Ltd

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Byron Limited is an Aberdeen based personnel support company, established in 1994, providing multi disciplinary engineering and drilling personnel support to the oil & gas industry, further developed to service and support the sub-sea and decommissioning sector.

C-Tecnics



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We are a UK based manufacturer of high quality subsea video and communications products for the inshore and offshore diving and ROV industries. Our product range includes video equipment such as the C-Vision as well as our diver rack systems which allow full communication between divers and the shore. We also supply a wide range of personal diving equipment and accessories such as hotcrabber gloves, backstabber diver's knife and the JOK recovery harness. Our subsea electronics are extremely durable and are able to stand up to the harsh environments in which they will be used.

Caiman Software Development Ltd



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Caiman Software Development's flagship product, Caiman IQ, provides businesses with a fully integrated Quality Management System incorporating document management, audit tracking, process mapping, procedures, project database, supplier management, CRM and even provides offline capability for end users with intermittent internet such as on vessels. The modular design of IQ allows businesses to implement only what they need to plug the gaps in their existing QMS. Caiman IQ has impressed auditors and enabled our clients to achieve ISO:9001 with reduced administrative overhead.

Cairndene



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Cairndene, founded in 2003 and based in the north east of Scotland, is a project management and planning consultancy, specialising in Primavera P6 and risk analysis. We bring together the key aspects of theory and principles, Primavera expertise and our clients unique perspective to deliver bespoke advice, support and training. All our training is university-level accredited by the Dundee Business School. Currently we are the only providers of a Primavera P6 Health-Check designed to report the root cause of your data calculation and integration issues and recommend improvements.

Caley Ocean Systems



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Based near Glasgow, Caley Ocean Systems has an international reputation as a centre of excellence in offshore handling systems for the oil and gas industry, oceanographic science, and naval emergency rescue vessels. With a highly skilled engineering team and dedicated manufacturing facilities, Caley's services include innovative handling systems, design consultancy, project management and engineering services. It has developed a number of bespoke systems for pipe clamping, and deepwater lowering of subsea structures weighing up to 950Te in water depths in excess of 1,300m.

Caltec Limited



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Caltec is an oil and gas process technology company, working primarily with passive technologies that optimise production boosting and compact separation. Caltec strives to design and deliver small footprint, lightweight units with zero energy consumption and no moving parts that are perfectly suited to subsea and topsides applications such as well deliquification, subsea separation, pumping duties and pressure management.

Camrov Subsea Ltd

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Providing specialised engineering solutions to both offshore and onshore industries, Camrov Subsea Ltd focuses on delivering valued services and products which exceed clients' expectations, whilst additionally designing new solutions and products allowing their clients to operate more safely and efficiently. Our skills, innovation, flexibility and dedication to succeed is the core principle which makes Camrov Subsea Ltd the company it is today.

Capita Health and Wellbeing

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www.capita.co.uk/healthandwellbeing

Capita Health and Wellbeing provide occupational health and medical services to the energy industry within the UKCS and globally. Our main service provision is: medics – offshore and onshore topside and diving emergency support – 24/7 – 365 days per year. Occupational health advisors and nurses – onsite clinical support medicals assessments throughout the UK sickness absence management health surveillance health promotion travel health substance abuse screening clinical governance onshore/offshore audits innovative technology training global services.

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CASE STUDY – Ceona

The SURF and subsea construction market is competitive, and a new build gives a contractor the opportunity to gain an edge in the core capabilities required for field development and project execution such as heavy lift, deep water pipelay and construction. In identifying where its competitive advantage will lie, Ceona established exactly what it wanted its new field development vessel, the Ceona Amazon, to do.

The 199.4m long vessel will be equipped for multiple project execution combinations, including heavy lift up to 800te, top tension capacity of up to 570mt, rigid pipelay up to 16", flex lay and subsea construction, all in one stop shop. To maximise capabilities, Ceona has put tried-and-tested technologies, from trusted suppliers such as Huisman, to use in innovative ways.

The vessel will execute projects in remote areas and deep waters, independent of logistics bases (no pool base required). This "take the project with you" approach informed the use of proven systems in smart combinations: pipelay tower, versatile



The Ceona Amazon - © Ceona

crane arrangement, carousel, pipe storage (9,000 tonnes) and on-board welding capabilities.

The result is a first-of-its-kind full field development asset that can be mobilised quickly in challenging environments to perform:

- Rigid pipelay
- Flexible pipelay
- Umbilical lay
- Crane operations: single or tandem lifts
- Moorings installation

Hull fabrication is underway at Crist S.A. and outfitting will take place at Lloyd Werft Bremerhaven by Q1 2014, before sailing to Huisman yard in Holland for tower installation in Q4 2014. The Ceona Amazon will enter the market in January 2015.

Ceona



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Ceona is a SURF and subsea construction contractor in the deepwater market, specialising in full-service engineering, pipelay and construction project management and execution. It has offices in London, Aberdeen and Houston. It is growing its engineering and project management capabilities in-house, and developing a fleet of state-of-the-art vessels to fulfil projects. It is integrating strategic partnerships to deliver the best solutions at every stage of operations. Ceona is accredited by DNV to ISO 9001, 14001 & OHSAS 18001 standards. FPAL supplier number: 10053050 – Achilles ID: 29319

CETCO Energy Services Limited

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CETCO Energy Services is a complete solutions provider of products and services for the global oil and gas industry. CETCO Energy Services Water Treatment Division specialises in the removal of hydrocarbons, solids, toxic materials and other contaminants from oilfield wastewater streams produced during oil and gas operations, transportation and storage. We can mobilise tried and proven temporary mobile modular DNV produced water packages along with highly trained personnel and can be based either on a platform, FPSO or back deck of a subsea vessel.

Clarkson Enship



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Clarkson Port Services provides the highest level of support to vessel owners, operators and charterers at strategically located ports in the UK and Egypt. Offering ship's agency services, we are also engaged in stevedoring and warehousing at UK ports and support to the Offshore industry. Since this time many customers have taken full advantage of our extended office network. Via Clarkson Port Services Enship has fully manned office at its disposal around the UK. From these locations we also provide customer services at many satellite ports.

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Coda Octopus Products Ltd



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CodaOctopus is a global leader and specialist in underwater technologies including being the patent holder for the real time 3D sonar, the Echoscope®. Its team of experts design innovative solutions for tasks including subsea surveys, marine construction, ROV operations, dredging and port security. With offices in the USA, UK and Norway, CodaOctopus has been designing, delivering and supporting products to the global offshore market for 20 years.

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C-D

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CD Group is a diverse engineering services group. Established in 1987, we have grown to be the fourth largest design and detail draughting contractors in the UK with over 160 employees and servicing the offshore oil and gas market worldwide. We can provide a range of engineering design services, starting with simple modelling of products from drawings or physical fabrications, all the way through to full product designs from concept, including FEA, testing and development services. CD also has a comprehensive technical personnel supply capability internationally.

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Cutting Underwater Technologies Ltd

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Cutting Underwater Technologies has more than 20 years' experience providing in-house developed diamond wire cutting solutions to the oil & gas industries globally. Our key benefits include; – In-house design and manufacturing capability – Bespoke machines and diamond wire technology – A fleet of 180 specialist diamond wire tools ranging from 5.5" to 150" cutting capacity – Remote deployment and operation of machines – Versatile, trained and experienced workforce – Excellent in-house test facilities – Excellent safety record – Over 4600 cuts performed including 107 platform removals.

Deep Tek Ltd

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DeepOcean is an integrated provider of safe, high quality, innovative services and technologies for the subsea industry. DeepOcean offers a breadth of subsea services including SURF, installation, intervention, survey and seabed-mapping, Inspection, Maintenance and Repair (IMR) and decommissioning.

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Derrick Offshore is a shipbroking company specialising in the offshore oil and gas, renewable energy and subsea cable industries. Since being established in 1976 we have provided services to shipowners, shipyards, offshore and cable contractors, oil companies, utility companies, subsea mining companies, banks and other financial institutions. Primary activities include the sale and purchase, chartering, newbuild contracting, valuations, financing and consultancy of specialist vessels and marine equipment, offshore renewables, and the installation and maintenance of submarine cables.

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DNV GL is the leading technical advisor to the global oil and gas industry. We provide consistent, integrated services within technical and marine assurance and advisory, risk management and offshore classification, to enable safe, reliable and enhanced performance in projects and operations. Together with our partners we drive the industry forward by developing best practices and standards. Our people combine industry expertise, multi-disciplinary skills and innovation to solve complex challenges for our customers.

Docmate Services Ltd



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Docmate Services Ltd (Docmates) provides technical documentation products and services to a wide range of companies operating in the UK subsea sector. Products produced and delivered for this sector include business management systems, operations and maintenance manuals, user guides, HSE manuals and training manuals.

DOF Subsea



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D-F



DOF Subsea is a leading provider of integrated subsea services to the oil and gas industry. The company owns and operates one of the largest global fleets of high-specification vessels, dive systems and ROVs, utilised to provide specialist survey, subsea construction and inspection, repair and maintenance services worldwide. We can provide a range of integrated services including FEED, pre-engineering survey, field development with offshore construction, IMR and decommissioning.

Douglas-Westwood

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Established in 1990, Douglas-Westwood is a leading provider of market research and consulting services to the subsea industry. We are an independent organisation supported by proprietary data, insight and knowledge with one of the largest sector-focused teams located in our offices in the Americas, Europe and Asia. To date we have

completed over 900 projects for clients in more than 70 different countries and in over 200 niche energy segments. Our published research includes the "World Subsea Hardware Market Forecast".

Ecosse Subsea Systems Ltd



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EFC Group

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Controls, instrumentation, monitoring & handling systems for global oil and gas industry. EFC systems encompass BOP, diverter & managed pressure control systems as well as choke controls, HPHT and well control instrumentation. Mechanical handling covers BOP transporters, horizontal & vertical pipe handling. Scope ranges from FEED study, stress analysis, partial upgrades & new system supply. Systems can be ATEX or IECeX Zone 1 or 2, CE, Norsok, API 16C or D monogrammed, engineers travel worldwide to survey, install & commission systems manufactured.

Ennsb Ltd

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Ennsb is an independent provider of specialised products and equipment to the global subsea sector. The company is headquartered in Aberdeen with a production facility in Teesside, north-east England and growing project management, engineering and design capabilities. The company offers a range of deep and ultra-deepwater deployment solutions for ROVs, subsea modules and bespoke subsea packages in addition to a suite of pipeline installation-related products and pipeline repair solutions.

Etpm Ltd



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Established in 2007, etpm was formed as a privately owned company to provide marine and subsea support services to the oil & gas industry. With offices in Aberdeen and Great Yarmouth, etpm is ever-expanding both in terms of base staff and the number of personnel we are supplying to clients worldwide. At present we are supplying crew to over 40 clients, which comprise of global marine, subsea and renewable companies. Our people work internationally on vessels, offshore installations and at onshore bases, providing flexibility to our clients.

European Submersible Systems

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Eztek Ltd



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Through the growth and reputation for product quality and innovative solutions, Eztek have become a globally recognised electronic instrumentation design and manufacture within the oil and gas industry. Specialising in hazardous area & harsh environment equipment ranging from data acquisition, Wireline panels, intercom and video monitoring. Celebrating 20 years' service to the oil & gas industry this year, marks a milestone on which they intend to build on with an ever expanding range of products and services.

Falmouth Divers Ltd



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Falmouth Divers Ltd is a UK based subsea contractor who for over 35 years has specialised in the submarine cable industry and for 14 of these also in the renewable energy industry. The company has worked in over 67 countries around the world and are able to supply complete installation packages including the shore-side construction of joint bays, and cable ducts, shore end landings and the lay, burial and maintenance of submarine cables. Falmouth Divers Ltd also provides conventional inshore and offshore diving and marine construction services to the Energy Industries.

Fathom Systems Ltd

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Fathom Systems provides engineering solutions and products to the commercial diving industry, ROV and underwater engineering industry. We use up-to-date, proven technology to produce a range of high quality and reliable products backed up with unrivalled customer support as well as consultancy, project engineering and operations support. Established in 2005 by a team of experienced engineers, we are dedicated to creating first class products and systems that fulfill our motto of, "intelligence underwater".

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First Subsea is an engineering and design house specialising in offshore engineering. It supplies subsea mooring components, pipe handling and recovery tools, offshore lifting tools for deployment and retrieval, bend stiffener connectors and offshore power cable connectors. It is the world's leading developer and supplier of Ballgrab® ball and taper connector technology with over 700 systems installed. First Subsea is an ABS approved manufacture, and meets the highest quality standards including: ISO 9001:2008 Quality Management System, ISO/TS 29001:2010 API Q1 Monogram Specification.

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Fisher Offshore is a part of James Fisher and Sons plc, a leading service provider in all sectors of the marine industry, and a specialist supplier of engineering services to the UK and overseas.

Flexlife Limited

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Flexlife is a specialist provider of subsea engineering services and has a history of delivering successful projects, supporting the needs of major oil and gas operators globally. Flexlife employs over 90 high calibre engineering professionals with strong academic backgrounds and a broad range of engineering disciplines, complemented by specialist experience in subsea flexible pipes. Since being founded in 2007, Flexlife has evolved to provide expertise in three core services: – flexible pipe technologies and engineering – subsea integrity management – subsea project management.

Flowline Specialists Limited

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Flowline Specialists designs, engineers and manufactures tensioners, reel drive systems, under-rollers, powered reels, shears and hydraulic power packs for the global oil, gas and renewable industries. Established in 2001, it is headquartered in Oldmeldrum, near Aberdeen and has operational bases in Norway and Singapore. Its range of equipment is designed to ensure the safe and efficient handling of reels, flexible pipes, umbilicals and power cables, onshore and offshore. Installed and operated by experienced field technicians, all equipment is road mobile and available for hire worldwide.

Forum Subsea Technologies

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Forum Energy Technologies Inc. is a global provider of manufactured technologies and applied products to the energy industry. The Subsea Solutions division custom manufactures ROVs, intervention tooling, control systems and integrated system solutions. These items are also available for rental as well as personnel and training services, seabed coring, geoscience project management and subsea pipeline joint coating. Forum's pioneering Rovdrill system and VMAX simulation software are providing innovative ways to drill smarter and deeper. Turn to Forum to take your subsea project to a new level.

Frazer-Nash Consultancy Ltd



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At Frazer-Nash, our consultants are applying their expertise to develop, enhance and protect our clients critical assets, systems and processes. They trust us to provide expert and impartial advice to improve the safety and performance of their assets and to overcome their most demanding offshore challenges. Our 500 engineers are renowned for their innovative yet pragmatic solutions across all stages of the asset lifecycle, including: asset integrity management, fitness for service assessments, corrosion control, process engineering, flow assurance, safety and risk, EC&I, and project control.

Freudenberg Oil & Gas Technologies Limited

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Freudenberg Oil & Gas Technologies is a global provider of innovative sealing solutions and differentiated products to the upstream oil & gas industry, including metal-to-metal, advanced thermoplastic and elastomeric sealing solutions. Our vector products are established metal-to-metal sealing solutions for demanding applications, including: offshore platforms, FPSOs, flowlines and subsea installations. We develop proprietary materials and perform in-house product verification testing and analysis. Locations: Australia, Brazil, Canada, Malaysia, Norway, Singapore, UAE, UK and USA.

Fugro GEOS Ltd



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Fugro GEOS services include wellhead and riser monitoring, jacket monitoring systems and weather stations, current and oceanographic measurement services and systems, and consultancy services. Our DeepData subsea pod is the basis for WARIS (Wellhead and Riser Instrumentation System). WARIS is used to assess fatigue sustained by wellhead and riser components, refine the model of the riser, estimate soil stiffness, and build a history of fatigue damage. Motion can be monitored against limits for safe operations. Drilling down time can be minimised (see case study).

Fugro Subsea Services Limited



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Based in Aberdeen, Fugro Subsea Services Ltd. operates within the geographical region of the North Sea, the Mediterranean and West Africa and are part of the global Fugro Subsea Services Group. We operate a modern and diverse fleet of ROV systems and ROV vessels, supporting our clients in a wide range of offshore projects. Our experienced team of Project personnel, Subsea Engineers and ROV operators ensure our Clients receive a first class service delivered both safely and on time. Currently we operate a fleet of 6 modern ROV support vessels and a fleet of over 75 ROVs for all requirements.

CASE STUDY – Fugro GEOS

Our client planned an exploration well which was complex and estimated to take around a year to drill. Modelling of the wellhead indicated the fatigue life was less than one year. Real time monitoring of BOP/LMRP motions was specified to track fatigue during operations.

The Fugro WARIS system was deployed. The accumulated fatigue damage was displayed on the vessel throughout the drilling operation. The same plots were also presented in weekly reports compiled from data transferred to the Fugro office via an internet link.

The monitoring found significant differences from the expected riser frequencies and fixity depth. The amplitude of motions was also a factor of three smaller than predicted. The preliminary model was refined primarily by stiffening the soil to improve the comparison with the measurements.

Using the motion measurements with the new model resulted in lower fatigue rates overall. Consequently, the operating limits of the rig were not restricted and there was no lost time due to fatigue concerns during rough weather.

The project demonstrated that the use of the lower bound soil stiffness was very conservative. The agreement between measured data and predictions using the refined model gives increased confidence in the fatigue calculations.

All subsea instrument pods functioned and recorded a full set of motion data.

The ultimate benefits derived by the client from this project were:

- Measured motions demonstrated low fatigue
- Fatigue model was shown to be highly conservative
- No rig time lost due to wellhead fatigue concerns
- The fatigue history of the well was recorded



Deep data pods mounted on the riser. © Fugro

General Welding Supplies (NW) Ltd



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Founded in 1982, General Welding Supplies is a privately owned company which takes great pride in continuously developing and expanding to respond to the needs of our Clients. In addition to the nationwide sales of a wide range of manual and orbital welding equipment, pipework machining equipment and associated plant and consumables, we offer welding consultancy, on-site machining services, welding and machining courses, routine servicing, repair, calibration and gas safety checks. GWS also offers one of the UK's largest and most comprehensive hire fleets serving the fabrication industry.

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At Geoprober we work with our clients to solve pressing technical problems through focused research, development and engineering innovation. Our core skill is turning ideas into real oilfield equipment that is fully tested and qualified to our clients' specifications.

GCG Group



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GCG provides tough, long-lasting protection for vital assets subjected to corrosion and chemical attack in harsh environments. Our durable coatings for the oil and gas industry defend subsea and topside structures against degradation and shield pipework, steelwork and valuable equipment from the damaging conditions in the North Sea and other inhospitable locations worldwide. With our innovative range of world-class coating products we can provide the maximum longevity for your assets, with the minimum of downtime.

Geoprober are experienced in delivering technically challenging projects on time and budget. With strong design and analysis experience and a dedicated workshop facility Geoprober has the ability to provide support for the entire process from concept to deployment.

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“GEO.xyz” is an independent company specialising in hydrographic, geophysical, geotechnical surveys and increasingly, offshore support services. We provide our services to local authorities, dredging & marine contractors, the off-shore industry, consulting companies and research centres. GEO.xyz utilise their own professional and highly-specialized staff, advanced technologies, state-of-the-art survey systems and their own fleet of survey or offshore support vessels.

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Subsea and pipelines specialist consulting. Specialties: due diligence, UK DECC/HMRC brownfield allowance (BFA) verification, subsea field development studies, conceptual, FEED, detailed design, subsea piping and pipelines, contract expediting,

client representation, subsea retrofitting concepts through construction design, DECC/HSE liaison, ad-hoc operational support, testing/pre-commissioning and commissioning philosophies, oil offloading systems availability study/specification, witness inspection, IRM. Also soliciting trade export import business inquiries globally.

GMC Limited



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From seabed to surface, GMC is an industry leader in subsea and offshore engineering solutions that develops and produces enabling technologies for the installation of offshore pipelines and risers. GMC's innovative products include fatigue resistant mechanical connectors, self installing floating towers and subsea handling and installation systems. Established in 1990, GMC has offices in the UK and USA, as well as strategic partners and satellite offices in Brazil, China, Poland, and Russia.

Goodwin International Ltd



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In the subsea industry the demand for high integrity, forged axial check valves is growing. Goodwin offers its non-slam axial check valve in pressure ratings in excess of API 10K and tested to API PSL 3G. It is the ideal solution to meet the subsea industry's demanding material and testing requirements along with a proven reliability in both oil and gas applications. A globally recognized and highly approved brand with international and national end-user companies and EPCs, Goodwin check valves are specified and used in upstream, midstream and downstream new build hydrocarbon projects.

Green Palm Marine Consultancy



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Green Palm Marine Consultancy is a global leader in the offshore-marine industry providing specifically tailored engineering solutions, support and project management to our clients. We strive to provide turnkey engineering solutions in the areas of design, refurbishment, modifications and conversions of rigs, offshore platforms, marine vessels and FPSOs. Our expert services involve offshore installation, structural engineering, subsea services, mooring and riser analysis, pipeline installation, stinger design and RAM assessments, jack-up rig engineering and specialized software solutions.

Halliburton Pipeline & Process Services

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Halliburton Pipeline and Process Services operates globally providing a full range of precommissioning, commissioning, maintenance and decommissioning services to the pipeline and process plant construction, commissioning and maintenance industries, both onshore and offshore. The services offered by Halliburton Pipeline and Process Services are aimed at providing operators the ability to initiate, sustain and increase production.

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Hallin Marine, a superior energy services company, is an integrated subsea contractor providing subsea services & support to the offshore oil & gas industry worldwide. Work undertaken comprises design, installation, construction, IRM and/or survey of subsea systems & equipment required to transport oil and gas from the seabed. Headquartered in

Singapore, Hallin has offices worldwide to support our customer their local operational needs; and offer our technical expertise and capability to complete subsea engineering projects safely, efficiently, on schedule and within budget.

Hardide Coatings



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Hardide Coatings is an innovator in advanced surface coating technology. Using advanced tungsten-carbide based coatings, the company provides engineered solutions to the challenge of increasing critical component lifetime.

The company's patented technology is unique in combining a mix of abrasion, erosion and corrosion resistant properties in one coating. When applied to metal components in aggressive environments, the coatings result in cost savings through reduced downtime and increased operational efficiency.

Harkand



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Harkand was created through the merger of Integrated Subsea Services (ISS), Andrews Survey, Iremis and Veolia Marine Services. We now operate 33 ROVs and 8 vessels globally from project offices in Aberdeen, Houston, Sharjah, Singapore and Perth. Our vessels include DSVs, ROVSVs and MPSVs. We also offer ROV, saturation diving and air diving services onboard third party assets as well as a full range of survey services through Harkand Andrews Survey. Led by chairman Tom Ehret, Harkand aims to become the leading global name in subsea inspection, repair, maintenance and light construction.

Hawke Precision Engineering



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Hawke Precision Engineering provides a world class precision engineering and manufacture of components to the highest specifications and specializes in engineering excellence. Recognised for rapid response and flexibility alongside a wealth of experience in, mining, subsea, rail and nuclear applications, Hawkes team of engineers offer a one stop shop service from concept and design to manufacturing and full production.

CASE STUDY – Hardide Coatings

The UH-550 with integrated ball valve is designed for critical applications subsea such as wellhead control. The handle mechanism on the valve is operated by a ROV manipulator to control flow at pressures up to 10000psi.

This application required a wear resistant coating that would protect the ball assembly against abrasion from sand and other materials as well as corrosion. It also needed to be smooth and non-porous for sealing against a PEEK inlay and low friction so minimal torque would be required for operation.

Hardide-T coated ball assemblies were supplied, a cost-effective solution which satisfied the customer's requirements, as well as offering proven resistance to sulphide stress cracking and stress corrosion. There are over 120 of these units in operation including units at BP's Block 31 field in Angola.



© Hardide Coatings

Hayward Tyler



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Hayward Tyler is one of the world's leading suppliers of electric motors and pumps. Whether the motors are dry or wet-wound, Hayward Tyler has a market leading reputation for providing mission critical products and services where the application is for: high pressure high temperature difficult to handle fluids. With a heritage and pedigree stretching back nearly 200 years, we remain committed to providing our customers with innovative, reliable technological solutions across the entire energy sector.

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HGL Dynamics is a world-leading supplier of services and high specification equipment for the integrated capture, monitoring, analysis, storage and management of high-bandwidth data. HGL systems are used for a wide range of industrial and civil engineering applications, including data logging and analysis equipment for offshore oil & gas applications for vibration analysis and reporting particularly turbines and rotating equipment. The product range is modular in design; and can be used in isolation for solving small problems or integrated together to provide large data management systems.

Highland Galvanizers & Highland Colour Coaters



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Our processes are hot dip galvanizing and powder coating which provide corrosion protection for steel and aluminium. Our plants are located in Elgin and Cumbernauld. Our Elgin plant has a galvanizing bath that measures 10.5m long x 1.1m wide x 3.0m deep: we can double dip up to 15m long. In Cumbernauld we have a galvanizing bath that is 7.0m long x 1.1m wide x 3.0m deep we can double dip up to 10m long. Our powder coating facilities can handle work that is up to 7.0m long x 1.1m wide x 3.0m deep. Our powders include polyester, nylon and epoxy.



Withdrawn 11 May 2019



CASE STUDY – Hire Torque Ltd (HTL)

At HTL, with the help of our in-house Engineering Design team, we can come up with a solution to any subsea related bolting problem you may be faced with.



For example, HTL were contacted by 'Shell Oil' due to our innovative approach to subsea solutions, with the remit to solve a problem with a Xmas Tree they were using which was no longer fit for purpose and required decommissioning. This particular Xmas Tree was over 15 years old and all valves, actuators etc had become seized over time.

The HTL 'Seasnake' is a solution which eliminates the need for any divers being present when a Fastlok connection is released. This removes the possibility of any subsea gas release becoming fatal making these processes much safer.

- Diverless
- Remote controlled
- Safe operational use

- Remotely operates a Xmas tree failed hydraulic system
- Remotely open / close actuator from surface
- Open and close valves remotely
- Seasnake device to remove fastlock clamp simultaneously
- Time and cost saving

Due to our innovation, service and unique solutions to problem solving, Shell Oil nominated HTL for the prestigious CoTA European Chapter Innovation Award.

The award is to recognise on a European level a service company or operator for the application of technical innovation in the area of well intervention.

Hiretech Ltd



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Hiretech Ltd offer sales and rental of powered umbilical reels, hose assemblies, hydraulic power packs, overboard chutes and a range of Zone 2 and Safe Area diesel driven centrifugal and positive displacement pumps and air compressors. We can deploy up to 1800m of 100mm umbilical using our Type 5 Powered Reel Deployment System, and our diesel driven triplex pumps can pressure test up to 1000 bar with flow rates of 50 to 1500 litres per minute. Centrifugal pigging pumps are capable of 40 bar at flow rates of 270 m³/hr.

HTL



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The number one supplier for all your subsea controlled bolting equipment, flange working, bespoke hydraulic equipment, the complete solution to solve all your subsea bolting problems! Offering an impressive customer service ethic, is instrumental to HTL's continuous growth and success in the Subsea Industry. HTL have one of the largest rental fleets for subsea controlled bolting equipment in Europe, including subsea hydraulic torque wrenches, subsea bolt tensioning equipment, subsea torque pumps, subsea nut splitters, hydraulic hose reels and many other items for both sale and hire.

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Hydratight has over 30 years' unrivalled experience in subsea connectors and tensioners. As industry leaders in joint integrity, we're an innovative company focused on meeting the complex challenges of subsea operations. Our innovative products and solutions meet the highest standards, such as our remote bolting systems with quick release nuts, and subsea Mechanical Connectors designed to be leak free with diver friendly design features. For a complete joint integrity solution, you can rely on Hydratight to get it right first time, every time.

Hydro Group plc



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Hydro Group plc focus is product innovation, design, engineering and manufacturing composite cables including tethers and umbilicals, underwater optical & electrical connectors, penetrators and terminations for subsea and topside applications. With over 30 years' experience the company operates on a global platform providing subsea solutions to a portfolio of prime contractors, major operators primarily within the oil & gas, renewable energy and defence industries. Hydro Group plc is ISO 9001:2008 approved. Its headquarters are in Aberdeen, UK.

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Underwater operations/engineering specialists and consultants. oil and gas, renewables, telecoms, inshore/nearshore.

Hydrobotics



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Hydrobotics specialise in the design and supply of remotely operated special purpose equipment and associated control systems. Hydrobotics is particularly focused on developing electro-mechanical remote intervention solutions necessary to augment maintenance and intervention support activities of today's deep-water field developments. Hydrobotics solutions are also suitable for support of underwater decommissioning and clean-up activities.

i-Tech



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Subsea 7's i-Tech division provides ROV and intervention support to the global energy market. i-Tech is a leading provider of subsea intervention technologies with an extensive track record and proven ability to deliver safely and reliably. These services are delivered onboard customer vessels of all types including drilling rigs, field support and construction vessels. i-Tech's technologically advanced

equipment undertakes operations in increasingly harsher environments and deeper waters, supported by offshore personnel who are graduates of i-Tech's dedicated in-house training school.

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Imenco is an EPC contractor to the global maritime sector providing mechanical and electronic equipment along with bespoke engineering solutions to major oil and drilling companies worldwide. Our market leading equipment includes: complete subsea guiding systems ROV operated shackles and latches ROV lifting and load transfer hooks subsea cameras – colour video, HD-SDi, low light, wide angle, digital stills, pan and tilt subsea lights – LED floodlights, flash units and LED diver/small ROV lights subsea lasers retrofit anodes saturation dive systems subsea tooling rental equipment.

Imtech Marine UK Ltd



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I-J

Imtech Marine is a leading company within the global maritime market, operating as a full-service provider and system integrator of tailor-made, innovative and sustainable technology solutions. Imtech Marine specializes in automation (platform and engine room), navigation, communication and connectivity solutions, propulsion systems, power generation and distribution, HVAC (heating, ventilation and air conditioning), ship motion control, information technology, entertainment, water management and port services. The company employs appr. 2,500 staff at almost 100 offices in 30 countries.

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From the outset we set ourselves extremely high standards, and over the years we have established an excellent track record, deploying high quality engineers, who have delivered projects on time and within budget. As a result, we now provide multi-disciplined engineers, consultants and management services to some of the biggest global players in the telecoms and submarine networks industry.

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Innospection Ltd is a specialist provider of innovative inspection services and solutions. An expert in electromagnetic inspection technologies such as Eddy Current and Saturation Low Frequency Eddy Current (SLOFEC), Innospection offers innovative technologies and sophisticated equipment in the offshore and subsea area to solve niche inspection challenges for rigid and flexible risers, caissons, subsea structures and pipelines, non-piggable pipelines, ship hulls as well as complex areas like subsea welds and manifolds.

Inspectahire Instrument Company Ltd



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Inspectahire is one of the UK's leading suppliers of specialist remote visual inspection technology and solutions to companies around the world. We offer equipment rental, contracting and project engineering services. Our experience is not limited to one industry. We have successfully delivered a wide range of advanced inspection solutions to the oil & gas, subsea, energy, petroleum retail, pharmaceuticals, physical assets, and process industries.

Intec (UK) Ltd



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INTECSEA (UK) Limited



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INTECSEA is one of the worlds leading and most experienced deepwater engineering companies, specializing in floating systems, offshore pipelines, marine riser systems, subsea systems and Arctic development. From concept to decommissioning, our customers rely on us for inherent safety through world-class design, engineered reliability through technical integrity, and a solutions-driven approach for full lifecycle asset management.

InterMoor Ltd



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InterMoor's mooring services include:

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Intoco is a special steels & alloys stockholder serving the oil & gas sector. We carry over 2000 tonnes of material in stock and our extensive range includes Duplex, Super-Duplex F51/F53/F55/F60/F61/309, Super-Austenitics F44, 17/4PH & Nickel Alloys 600/601/625/718/400, Inconel 500/825/904L/C276/C22. We can process this material into sawn blanks, rings, blocks, etc., and distribute very quickly worldwide. 3.1 & 3.2 certification can be supplied, we are also ISO9001:2008 certified.

IQ Integrity Ltd



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IQ Integrity's ONE asset and anomaly information management software, is used by Oil & Gas operators, replaces spread sheet repair and asset registers with a streamlined application providing major benefits. Used offshore and onshore for topside and subsea installation defects, ONE tracks anomalies on specific components and assets from discovery to closeout, recording assessments, tasks, actions, comments, documents and images. ONE is a customisable toolkit which is implemented to suit any workflow or process requirement and currently used by Apache North Sea, TAQA Bratani, Premier Oil and Ce.

Jackson Engineering



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Based in Sheffield, England, specialists in high quality contract and sub-contract CNC machining and offering a complete service including advice, development and manufacture. We work closely with our clients from inception to production to produce their specific requirements. Our core business is the manufacture of complex machined products for the sub sea and oil and gas sectors in a range of materials including Duplex, Super Duplex, 300 & 400 range stainless steels, aluminium / aerospace specifications and non ferrous alloys.

JDR Cables



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JDR is a leading provider of technology connecting the global offshore energy industry. Our products and services enable vital control and power delivery to offshore oil, gas and renewable energy systems. The world's major energy companies and subsea service providers depend on high performance subsea control umbilicals and subsea power cables that operate in the world's harshest offshore environments. JDR invests in state-of-the-art manufacturing facilities, technology and people to deliver these world-class subsea products. We have a proven track record of delivering client expectations and are totally committed to lifecycle customer service. We achieve this through our specialist engineering teams, experienced project management, integrated safety systems and a global service network that ensures 24/7 aftermarket support.

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Jee Ltd is a multi-discipline subsea engineering and training company operating in the global oil, gas and renewables industries. We are an independent firm of engineers with 25 years of experience in providing integrated subsea solutions spanning the whole life-of-field. Operating from offices in Aberdeen, London and Tonbridge, we work on a wide breadth of projects from design through construction, to operations to decommissioning. Clients come back to us for our expertise and consistently high standards of service.

Knighon Enterprises Ltd



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www.subsea-news.co.uk

Subsea information, consultancy and training services. Organiser of the subsea production systems engineering course for 10 years and former publisher of subsea engineering news.

Kongsberg Oil & Gas Technologies Ltd



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Kongsberg Oil & Gas Technologies serves the oil & gas industry as an established subsea EPC contractor and a developer of high performance information technology solutions for drilling operations, production, and the subsea environment. We optimise oil & gas operations through subsea engineering and technology development, data management, simulation, integration and analysis tools, and consultancy and services all leading to significant operational, HSE and financial performance gains.

KOS Kent Introl Limited



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Based in Brighouse West Yorkshire UK, KKI is owned by Nihon KOSO Co. Ltd. of Japan, originally formed in 1967 under the name Inrol Ltd, the company has evolved over the years. KKI specialises in the supply of subsea choke and control valves as well as topside control valves, choke valves and butterfly valves. Our valves are engineered by highly qualified and experienced personnel and our plant is accredited in accordance with Quality Management System ISO 9001 and Environmental Management System ISO14001, Health & Safety OHSAS 18001.

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KW is a high technology engineering consultancy specialising in subsea pipelines and SURF projects. Design services range from subsea architecture to deep water SURF to large diameter long distance export lines. Services start from early engineering selection through to concept, pre-FEED, FEED, detailed design, and execution. We have a proven track record with O&G majors, NOC's and independents and all major contractors. KW operates globally and as part of Petrofac can integrate its services with large engineering resources and skills to jointly undertake complex oil and gas projects.

LB Bentley Ltd



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LB Bentley specialise in the design and manufacture of specialist small bore subsea valves for use within the oil and gas industry. With over two decades' experience we have the edge in developing our valves to fully satisfy customer requirements for a wide range of applications. In developing our range of innovative products we have pioneered metal-to-metal sealing technology that reduces the risk of contamination and failure. As a solutions provider we stretch the boundaries of design with creative engineering, delivering a bespoke product that helps engineers solve their design challenges.

Mabbett

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Mabbett is recognised as the leading independent environmental, engineering, health and safety and sustainability consultancies in the U.K and Europe. Our success is primarily due to our integrated team and approach, Mabbett has some of the brightest thinkers in their fields this includes scientists, engineers and health and safety professionals. Team Mabbett has the technical acumen and

a proven track record to understand the uniqueness and requirements of each project in depth; and has the expertise and commercial awareness to design and implement solutions which make sound business sense.

MACAW Engineering Ltd



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MACAW Engineering is a leading independent engineering consultancy working closely with global operators of oil & gas production facilities, pipelines and utility systems to reduce risk, maintain integrity and extend the service life of client assets. Based in Newcastle (UK), MACAW Engineering employs over 80 full time staff comprising of principal consultants, senior engineers and engineers covering a multitude of disciplines including mechanical engineering, corrosion engineering, materials engineering and welding.

Manuplas Ltd



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M

Manuplas, a global polymer engineering company, manufactures buoyancy, clamping and protection solutions for the subsea, renewable and oil/gas sectors. Manuplas provide turn-key solutions (in-house design, tooling, manufacturing capabilities and test facilities). Manuplas use syntactic foam technology to manufacture products which operate in water depths down to 3000m. Subsea range includes pipe laying, modsyn, umbilical & transponder floats, installation & modular mooring buoys, distributed buoyancy modules & flange protectors. Surface products include buoys, boat and floating fenders.

Marubeni Itochu Tubulars Europe plc

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MITE was established in 2001 to supply steel tubular products to the oil and gas industry. With a global network of offices we have the scope and experience to supply the complete range of Carbon and CRA linepipe from the world's premium steel mills in Japan, USA, Korea, China and Europe. We supply all API, DNV ASTM and UNS grades of pipe encompassing Seamless, SAW, HFW manufacturing methods. We specialise in all types of corrosion resistant alloys. With our mill alliances and financial strength, we provide our customers with unparalleled service.

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At Maxoil Solutions we understand the increasingly challenging needs and the importance of maximising the economic efficiency of their oil and gas assets. We achieve this by supporting them to implement robust performance enhancing strategies, founded on our Process Engineering and Production Chemistry. Our mission is to provide a holistic, practical approach to ensure a total engineering solution to troublesome oilfield processes. Our goal is the implementation of a total oilfield solution to achieve the combined benefits of reduced environmental impacts and increased plant productivity.

McDermott International



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McDermott is a leading engineering, procurement, construction and installation (EPCI) company focused on executing complex offshore oil and gas projects worldwide. Providing individual, combined or fully integrated EPCI services for upstream field developments, we deliver fixed and floating production facilities, pipelines and subsea systems from concept to commissioning, seafloor to shore.

MDL part of Renishaw plc



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With more than 25 years' experience, MDL (now part of Renishaw plc) is a global pioneer and world leader in laser measurement technology and positioning and navigation systems used by businesses which have reached the forefront of their industry by increasing their efficiency and providing the best technologies for their staff. MDL's Fanbeam® system is a laser based positioning sensor designed for repetitive, high accuracy range and bearing measurements from offshore support vessels and other marine structures. The system is primarily used as a dynamic positioning (DP) reference sensor.

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Merlin ERD Ltd delivers the industry's longest wells for our clients, who enjoy less hassle and greater profits. Industry leaders in Extended Reach Drilling (ERD) with projects from Sakhalin to Australasia and the North Sea, we apply the latest drilling innovations to make drilling problems go away in all our deviated wells. Whether we're completing feasibility studies, solving wellbore instability problems, avoiding costly rig upgrades with clever engineering or passing on our experience through our training courses, our clients benefit.

CASE STUDY – MES

MES has conducted Reliability and Maintainability (R&M) studies as part of an overall reliability programme for BP's West Nile Delta Gas Development. Equipment with the potential to lead to production shortfall were modelled to quantify the overall production availability of the field and subsequently compared with project targets. The study identified that the greatest contribution to production unavailability was due to the high degradation rate of the HIPPS system and the time required repairing the HIPPS module.

MES also recently used its proprietary software tool, PLASMA, to investigate different intervention vessel options and optimum number

of spares for a subsea water injection system. It was essential that the availability of the water injection system was maintained at maximum design capacity at all times as any shortfall would have an observable impact on hydrocarbon production. The reliability study identified that the production availability of the subsea water injection system was predominantly influenced by the intervention vessel mobilisation delay and the number of spare Subsea Control Modules (SCMs).

For both of these cases, study outputs were used to assist in decision making for optimising design and configuration i.e. redundancy, maintenance strategy, sparing and ultimately improving production availability and profitability.

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Metal Fabrication Systems was established in April 2004. It was formed with the intention of providing high quality bespoke fabrications for the offshore industries. We have a very comprehensive health and safety policy to maintain a safe working environment for our staff and visitors alike. Metal fabrication systems invest in the people we employ, whilst providing all the necessary training needed with apprenticeships working hand in hand with Derwentside college. We also have an equal opportunity policy. The company invested in the ISO 9001: 2008 and have completed our three year renewal.

Metflex Precision Rubber Components Ltd



Metflex
Precision Rubber Components

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Metflex specialises in the manufacture and supply of precision rubber moulded components, rubber seals and diaphragms to a world-wide customer base. Metflex offers its customers a complete service, incorporating material development, concept planning, full project management, design, manufacture and tool trialling. The company serves a wide range of industry sectors including oil, gas, food and drink (dairy), domestic products, mass transit (drive couplings), Heating Ventilation and Air Conditioning (HVAC) and subsea applications. Let Metflex elastomers solve your problems.

Mokveld UK Ltd



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Mokveld provides the gas and oil industry with expert knowledge and advanced engineered valve systems for critical control and safety applications. Mokveld offers high-quality axial flow valves. These valves are the culmination of generations of ongoing, high-quality research, and an in-depth knowledge of our customers processes and operating practices. As a result, we can assist you to: increase production decrease operational and life-cycle costs enhance power savings.

M-N

CASE STUDY – Metflex

Diverless and ROVless riser and umbilical bend stiffener connectors developed by subsea connection specialist, First Subsea, use rubber springs manufactured by precision moulding company Metflex. The rubber springs are a key component of an innovative Automatic Release Clamp (ARC) pull-in head locking mechanism, providing a fully automated method of installing flexibles to production platforms.

First Subsea's ARC design address the problem of the 'weak link' often experienced with some bend stiffener connectors where the shear-pin breaks ahead of complete installation, or is too strong resulting in connector being 'over-pulled' leading to installation problems. Instead, the ARC bend stiffener connector is a self-latching system that automatically de-latches when fully connected, eliminating the need for diver and ROV intervention. The Metflex rubber springs are used to maintain the pre-load on the bend stiffener connector's ball and taper mechanism ahead of releasing the end fitting.

Using the ARC for bend stiffener connections greatly improves the efficiency of riser and umbilical connections. In addition to enabling quicker installations, thus reducing vessel time, it is also less dependent on the need for good weather conditions when installing flexibles.

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MES is an independent and specialised risk, safety and reliability consultancy to oil and gas projects. We develop insights that explore plausible subsea technologies, assess associated technical risks, and effectively define and enforce reliability performance objectives in line with API RP 17N. Our extensive reliability engineering expertise and proprietary tools, such as PLASMA, provide innovative solutions which are highly customisable to project requirements and enhance availability and production assurance from deep-water wellhead, across topside and export and to onshore facilities.

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MP Filtri Group is an Italian owned company, with 50 years of experience in the hydraulic filtration market. It develops, manufactures & supplies a range of filtration, power transmission and ancillary products worldwide. MP Filtri UK Ltd acts as the fluid condition-monitoring wing of the group, both designing and manufacturing high quality instrumentation for portable, in-line and laboratory applications. Market sectors supplied worldwide include off shore, mobile, aerospace, industrial, renewable energy and biofuel.

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N-Sea is an offshore subsea contractor specialised in IMR and survey services operating within the international oil and gas, renewable energy and utility sector. N-Sea expertise includes: air and TUP diving, construction and positioning support, inspections by diver and ROV, pipeline and cable inspections using WROV, geophysical survey and geotechnical investigations, UXO identification, excavation and removal. N-Sea's policy is to provide customers professional, cost effective and high quality service where safety, health, environmental and quality factors are the number one priority.

CASE STUDY – N-Sea

The TUP Diving System® enables N-Sea to offer a safe, complete and cost effective solution to customers with offshore operations.

The re-introduced TUP (Transfer Under Pressure) Diving System® is a safe system which saves money and time on diving operations. It offers a number of advantages when compared to surface oriented diving operations and saturation diving operations. One of the new features of the system is the use of the breathing gas Nitrox. This gas significantly increases the workable bottom time.

The TUP Diving System®, designed and built in-house by N-Sea, is deployable from most DP/II support vessels and platforms. It consists of a 3-man diving bell, launch and recovery system, triple-lock decompression chamber, gas diver control (air/trimix/nitrox) and hyperbaric rescue craft.

Now with Nitrox, efficiency begins at a much shallower depth range (20MSW) when compared to surface oriented air diving. A diver's workable bottom time in the 20 to 33 m water depth range is longer. The reduced nitrogen pressure shortens the decompression time. Compared to saturation systems deployed for short diving operations in high current areas between 35 and



50 m water depth, the TUP Diving System® is a cost competitive alternative.

Main benefits of the TUP Diving System®: no surface decompression interval and a significant increase in workable bottom time and mobility.

Narec Ltd.

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Narec, a world leading offshore energy testing, research and development centre offers one of the largest dry dock subsea test facilities in the UK. Our largest dock (which was previously used for building aircraft carriers) is 8.2m deep, 26m wide and 76m long, which plays host to a wide range of subsea tests for bespoke installations and the validation of new technologies for offshore pipeline and cable infrastructure. Other subsea test facilities include a 4m deep artificial seabed for testing subsea trenching technology and a 5m deep wave flume.

National Hyperbaric Centre



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The National Hyperbaric Centre (NHC) is an independent company providing expertise and services to the subsea pressure-related industries. We offer a wide range of services from training, hyperbaric welding, subsea testing and consulting to customers worldwide. Our understanding of extreme environments enables us to provide professional advice and services to customers of all industry markets. We have assembled a team of very experienced people with backgrounds from working in pressurised environments.

National Oceanography Centre



national hyperbaric centre

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The National Oceanography Centre undertakes ocean research and technology development from coast to deep ocean. NOC provides integrated marine science capability incl. global-class research ships, autonomous underwater vehicles, 6500m-rated ROV, national marine equipment pool; sustained ocean observing, mapping and survey; data management, and scientific advice. With close links to the wider UK and international marine science community and manufacturers, NOC is able to meet your marine environmental assessment, seafloor ecosystem, autonomous vehicle, marine policy and Law of the Sea needs.

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Manufacturers of ships navigation
and dynamic positioning equipment.
Installers of ships navigation equipment.

Neptune Subsea Engineering Limited



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Neptune provides specialist subsea engineering services, from conceptual to detailed design, fabrication, installation, inspection, repair and maintenance activities, to companies in the international oil & gas sector. The engineering divisions in Aberdeen and Perth, work with Neptune's fabrication and offshore division providing integrated IRM solutions. With a successful track record and established client base Neptune are committed to being recognised as a leading provider of integrated engineered solutions to the subsea energy sector.

Newburgh Engineering



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Newburgh is a progressive contract manufacturer of high specification engineering component parts and assemblies. We offer a large production capability over two manufacturing sites combined with a highly skilled workforce. We deliver significant business benefits to our customers through our long-term manufacturing partnerships and project dedicated production cells. We offer a total service for the complete supply of essential safety / project critical components to global customers and projects. We are proud to be recognized as a key member of worldwide Oil & Gas supply chains.

NGK Berylco (UK) Ltd.

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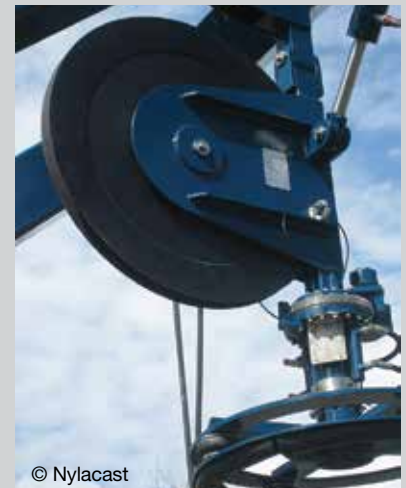
NGK Berylco are manufacturers of Beryllium Copper alloys which are widely used in many subsea applications. Beryllium Copper can be supplied in bar, rods, plate & strip in sizes from 0.05mm Thick to 350.0mm Diameter. We have vast stocks in our UK warehouse which can be shipped around the world within days.

CASE STUDY – Nylacast

Using advanced polymers, particularly those based around cast nylon, allow for a number of significant advantages within sheave applications. These include increased wire rope life, reduced component weight, protection against corrosion and reduced maintenance costs whilst offering improved lifting.

The versatile strength of Nylacast Nylon Sheaves sees them used more today than ever in ROV Launch & Recovery Systems (LARS). In the LARS application the sheave wheel is fitted to the 'A' frame or crane of greater diameter than the minimum bend radius of the ROV umbilical. The key factor is the strength of the Nylon material that allows for the weight of the ROV system as well as any increase in weight due to heavy sea states.

Nylacast are unique in being able to offer Nylon sheaves in a range of various material grades for further enhanced performance according to their use. Being made to order, Nylacast sheaves are available in a wide range of sizes from 2inch diameter up to 3meters. Furthermore they do not require any protective painting or coating and substantially increase the wear life of the rope being used on the sheave.



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Nylacast



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With the ability to manufacture and machine a wide range of engineering polymers Nylacast are recognized as a market leader in the supply of offshore and subsea components. Nylacast has the knowledge and facilities to provide a full range of engineering polymer solutions supported by a full R&D testing facility and project management from raw chemicals to end components in any quantity, with full traceability. Furthermore, Nylacast are FPAL registered and work in accreditation to the high quality standards of ISO 9001/TS16949, ISO 14001 (EMS) and ISO 29001:2011-Oil and Gas.

Ocean Installer



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Ocean Installer is a subsea entrepreneur headquartered in Stavanger, Norway, with offices in Aberdeen, Scotland, UK, and Houston, Texas, US. We provide the full range of subsea services and hold strong EPCI (Engineering, Procurement, Construction, Installation) expertise within the SURF (Subsea structures, Umbilicals, Risers, Flowlines) segment. Ocean Installer was established by experienced subsea professionals in 2011, in response to changing structures and increasing demand in the subsea construction industry. We aim to be a key service provider in the global SURF market.

Ocean Power Technologies



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Ocean Power Technologies (OPT) is a world leading supplier of the PowerBuoy – a range of devices that harvests energy from waves providing our customers with the ability to deploy remote, persistent, autonomous UPS (Uninterruptable Power Supply) for differing ocean applications. Our wide range of devices (10W to 500kW) are applicable to a number of different markets including, utilities, defence and oil & gas. Designed for 3 years' maintenance free operation the PowerBuoy offers not only an increase in capability, but also real cost reduction opportunities in terms of both CAPEX and OPEX.

Oceanlab, University of Aberdeen

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Oceanlab has a large hanger, with 2.5T forklift and crane, and a comprehensive suite for sub sea testing. Available on a commercial basis and includes:- 1800mm x 750mm, 700 bar hydrostatic pressure vessel. Software driven vibration table and supply of test design if required Software driven environmental chambers -40 to +180C Indoor test tanks up to 125m3. Cleaned pump ashore N. Sea seawater available.

Offshore Installation Services Ltd (OIS)



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OIS, an Acteon Company, provides integrated project management services specialising in vessel-based subsea installation and decommissioning projects. OIS has an unrivalled track record in the successful abandonment of suspended wells and has completed over 100 projects since 1996 in the UKCS. OIS specialise in multi-operator decommissioning campaigns which enable operators to share project costs and ensure a cost-effective way to decommission non-revenue generating assets and comply with UK oil and gas legislation when compared with a rig based alternative.





Withdrawn 17 May 2019

CASE STUDY – Offshore Environmental Oils

Offshore Environmental Oils (OEO) was founded in early 2012 to fill a gap in the subsea market for environmental alternatives for mineral and synthetic oils used offshore.

We offer a range of topside and subsea hydraulic fluids covering general alternatives to mineral oils across a wide range of viscosities to more specific bespoke technologies such as HP/HT subsea production control and subsea actuator fluids.



© Offshore Environmental Oils

Environmental legislation is becoming stricter every year and all products sold by OEO are designed to achieve the highest possible standard of environmental acceptability measurable in industry.

As fields are developed in increasingly remote locations, subsea systems are being subjected to hotter temperatures and higher pressures. We believe environmental oil based fluids are the future for these developments, with our flagship product CLEO able to withstand temperatures of 250°C for the project lifetime.

To take this belief from the laboratory to the practical environment, we focus heavily on the testing and qualification of our environmental oils, offering customers an extensive testing portfolio on all our products. We are able to offer bespoke fluid solutions to equipment manufacturers & operators, who trust OEO to provide the required technology for specific applications.

Oldham engineering is acknowledged as a reliable and trusted partner to clients in the nuclear, offshore, defence and general engineering sectors. Continued investment has ensured that Oldham Engineering can continue to offer its customers a competitive advantage in today's global market. Oldham Engineering can undertake either small individual components or large turnkey projects to the highest specification, and is able to fabricate, machine and assemble under one roof, enabling a high level of quality control and project management.

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OneSubsea, a company jointly owned by Cameron and Schlumberger, delivers integrated solutions, products, systems and services for the subsea oil and gas market. The company offers a step change in reservoir recovery for the subsea oil and gas industry through integration and optimization of the entire production system over the life of the field.

Offspring International Ltd



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Offspring International Limited (OIL) is a leading supplier of single point and deepwater mooring systems, offloading hoses, marine breakaway couplings, engineered ropes and navigational moorings. It is the worldwide agent for Lankhorst Ropes Offshore Division.

Based in Birmingham, UK, and with a subsidiary office in California, US, OIL is a dedicated team of mooring professionals with over 100 years' experience. OIL is an active member of the Oil Companies International Marine Forum, and represented on many oil and gas joint industry projects' deepwater mooring committees.

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Online Electronics Ltd



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Online Electronics Ltd (OEL) is the parent company of an international Group engaged in the pipeline sector of the global energy industry. OEL design and manufacture innovative products and systems employed during pipeline pig monitoring, data communication and logging operations. OEL combine acoustic, electromagnetic, magnetic and ultrasound technologies to produce flexible solutions. OEL's services enables locating and monitoring, signalling, pressure/temp data logging, through pipe wall communications, gauge plate condition monitoring systems, subsea voltage detection and bespoke designs.

OPITO



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OPITO is the oil and gas industry's focal point for skills, training and workforce development. A not-for-profit industry body, it is dedicated to developing and sustaining a safe, skilled and effective workforce both now and in the future. This is achieved by working in collaboration with industry employers, learning & training providers, education & academia, and partnership organisations. It also acts as the industry's voice at Westminster and Holyrood, highlighting the key industry issues and helping to inform and shape government policy.

Pacson Valves



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Pacson is a bespoke Subsea Valves manufacturer based in Dundee, Scotland. Supplying product to Wellhead manufacturers, Contractors and E & P companies worldwide. We have a total in-house capability to design subsea valves and pressure control products up to 16" (400mm bore), or up to 25,000psi (1700 bar) working pressure. Our range includes: Ball, Gate (slab & rotary), Needle & Check valves. All of the above are available in various configurations including both single isolation and double block and bleed valves with operation either by manual, hydraulic or ROV means.

Paradigm Flow Services Limited



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Paradigm Flow Services Ltd are recognised industry leaders offering a range of services to locate and remove blockages (waxes, asphaltenes, hydrates, scale & mechanical obstructions) in subsea riser, flowlines and umbilicals. Where conventional remediation approaches often fail or can not be applied our enabling services which includes a non-intrusive technology can be executed quickly, cost effectively and can greatly reduce engineering time, negate the requirement to break containment or the need to replace system infrastructure thus allowing the re-establishment of flow for our Clients.

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PDL is a leading provider of advanced engineering design, finite element analysis and computational fluid dynamics consultancy services to the global subsea sector.

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P-Q

Established in 2002, Pelagian is a Subsea cable specialist consultancy and offshore personnel provider. Consultancy, survey, route engineering, permitting and experienced technical personnel and crewing provision. oil & gas, renewable, power and telecommunications cable project management.

Perfect Bore Manufacturing Limited



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Peritus International



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Peritus provides high end system engineering services to offshore oil and gas projects across the globe. Using highly experienced people, advanced technology and global knowledge networks, Peritus maximise client returns on developments in remote, hostile and deepwater environments. The Peritus model works on a network of regional engineering centres which enable specialised skills, knowledge and expertise to be shared across global operations. This model delivers lower cost, technically superior subsea solutions for clients.

Petrex Ltd



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PhotoSynergy Ltd



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PhotoSynergy Ltd (PSL) is a Scottish based company that has lighting innovation at its core with a highly skilled and experienced team. PSL has developed lighting systems operating with optical fibre to produce a continuous "line of light" lightpath that carries only light no electrical power for challenging environments. Integration of lightpath into an Air Dive Umbilical to enhance safety PSL working with Boskalis Offshore Subsea Services, Bibby Offshore, Helix Well Ops UK Ltd with Marine applications areas such as deck guard rails and open hatches and below deck identifying egress routes.

Pipe and Tube Machines Ltd

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Premier Chemicals are a global supplier of chemical technologies for the purification of breathable and industrial gases. Specialist suppliers of saturation diving purification chemicals for the removal of harmful gases in saturation dive systems, bell scrubbers & living chambers. With locations throughout the world and high quality products Premier Chemicals is the company of choice for many subsea construction companies. Safety and compliance are at the forefront of what we do and our company is ISO:9001 certified and REACH compliant to EU chemical regulations.

Prospect



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Prospect provides integrated, multi-disciplinary engineering design and analysis services to clients worldwide. It is a global division of the Wild Well Control group and Superior Energy Services Inc. Prospect deploys a wealth of engineering experience to provide a unique combination of technical services which deliver relevant and robust solutions. Whether developing a concept, a detailed design or problem solving, our work is characterised by technical excellence, engineering innovation and best practice. Prospect operates a DNV certified QMS compliant with the requirements of ISO 9001.

Pulse Structural Monitoring



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Pulse is the leader in marine structural monitoring and has been responsible for the provision of highly successful monitoring systems and services to the offshore oil & gas industry since 1998. Pulse provide a wide range of subsea, topside and metocean systems for drilling, completion/ workover and production stages of operations. These systems measure a range of parameters including wellhead fatigue, riser fatigue, mooring line tension, buoyancy can behavior, environmental & metocean conditions and many more.

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Quality of Sales assists Industrial Science based companies to improve their EBIT – typically: R&D houses, OEMs, integrators, specialist contractors selling up to the primes and operators. QoSL provides Board advisory, management consultancy, operational contracting to address market opportunity or internal improvement situations.

Q-S

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Quadrant is the world's largest manufacturer of engineering plastic products. All materials are manufactured in-house and, in addition to the renowned Nylatron used in the manufacture of cable sheaves and track plates, also produce advanced plastics which are designed to withstand the pressures and temperatures experienced in deep water drilling and exploration. Our advanced plastics can operate at temperatures of 315°C and minus 200°C. These technically advanced polymer products open up exciting opportunities for new applications in the subsea sector.

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Remote Ocean Systems Ltd

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ROS Inc. has been an industry leader in design and manufacturing of equipment & systems for the most severe oceanographic, nuclear and military environments since 1975. Our standard product line includes, underwater video cameras, underwater lights, pan and tilt units & video inspection systems. ROS Inc. HQ have a 28,000sq.ft. research and manufacturing facility in San Diego, CA. with a modern machine shop, hydrostatic pressure test tank, electronics lab, advanced computer modelling & prototyping systems & environmental test chambers. Please visit our website for further current details.

Responsive Engineering Group



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Through one portal, customers can access high precision CNC machining, specialist welding and fabrication, pressing, assembly and test operations as well as profiling using the latest Waterjet and Laser cutting technologies. We are manufacturing partners to numerous OEMs and are constantly engaged in projects such as ROVs, Intervention equipment, drilling products, artificial lift, connection systems, gas turbines, subsea control modules.

RJD Engineering



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Schoolhill Hydraulic Engineering Co Ltd



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A leading force in hydraulic engineering, Schoolhill offer a complete design, manufacture and testing service for a wide range of hydraulic powered equipment. Hydraulic cylinders for subsea operation and other harsh environments. The company also manufactures a variety of subsea control valves. Our range of patented integrated gripper cylinders for Tree Running Tools (TRTs), LRPs and TCMRTs is steadily growing. Capital equipment includes pipe handling systems, dipping tables, swaging machines (350t 500t 750t) and induction heating systems for premium tubulars.

Scotia Instrumentation Ltd



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Scotia specialise in the sale, hire, calibration and repair of test and measurement equipment. We have a dedicated R&D department which allows us to produce specialist logging equipment suitable for subsea use in commissioning and testing of pipelines.

Scour Prevention Systems



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Lowestoft based Scour Prevention Systems Ltd are providers of an innovative solution to seabed scour around subsea structures, pipelines and cables. The company's patented, field-proven Scour Prevention Mats consist of a matrix of end-of-life vehicle tyres which form a stable layer to stabilise the seabed and protect structures against the impacts of scour.

SEACON (europe) Ltd



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Seafab Consultants Ltd



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Seafab provides full design, engineering and fabrication services for all industries on or offshore; specialising in exotic piping and structural fabrications: structural fabrication of frames, platforms, clamps, grillages etc. Fabrication of pipework (PED Compliant) in a wide range of material. Manufacture of pressure vessels.

Seatronics Ltd

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Seatronics, an Acteon company, specialise in marine electronic equipment rental and sale for a range of applications: geophysical survey; navigation and positioning; oceanographic systems; video inspection; ROV survey; ROV tooling, diving & non destructive testing and computer systems. In addition to equipment rental and sales, Seatronics supply and manufacturer subsea connectors and cable moulds and have state of the art calibration facilities throughout our global offices in Aberdeen, Abu Dhabi, Houston, Macaé, New Iberia, Perth and Singapore.

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Sembmarine SLP has over 40 years' EPC project experience in offshore structure design, fabrication, procurement, installation and hook-up services. Based in the East of England with unrestricted access to the North Sea, our subsea capabilities include, wellhead templates, wellhead protection frames, pipe end connectors, manifolds; brownfield modification and riser tie-in installation, & commissioning.

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Senergy Development Solutions core skills include; development engineering, project development, flow assurance, process engineering, subsea and pipeline engineering, project leadership and delivery, project services and due diligence. In the UK SDs operates from Aberdeen, Edinburgh and London. Senergy Survey & Geo Engineering comprise a team of nearly 50 experts at several locations throughout the UK. This includes a development team, who specialise in providing integrated geoscience, engineering, survey and knowledge management services to the global marine energy sector.

SETS



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SETS is a specialist subsea engineering and project management resource, focused on small construction and IRM projects. The highly experienced team provide clients with:

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Severn Subsea Technologies



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Founded in 1999, Severn Subsea Technologies (SST) is the Severn Glocon Group's Subsea Processing R&D Centre. It specialises in the development of subsea and downhole tools and instrumentation for subsea systems and HPHT environments. It's core technologies are control valves and HPHT downhole tools and associated heat shielding, electronics and software. SST products include: directional control valves (DCV), mechanical HIPPS, stab plates and smart tools. In addition, it offers subsea engineering and design services together with advanced manufacturing and test facilities.

S

Ship-Inspect Ltd

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Ship-Inspect was formed to provide owners, marine operators and charterers of offshore support vessels, and other interested party's with an inspection service from an independent third party.

Silvercrest/SME

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SMD

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Sonardyne International Ltd

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Sonardyne delivers trusted solutions for acoustic positioning, inertial navigation, wireless communications and sonar imaging to the offshore oil and gas, maritime defence and ocean science industries. From our origins in the North Sea through to today's deepwater developments, innovation and performance have maintained our reputation for technical leadership. Headquartered in the UK with international offices strategically located for the highest level of service, Sonardyne's global reach ensures that we can deliver, commission and support operations in the most remote, hostile locations.

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We provide subsea lay equipment and services throughout the entire life cycle – from conceptual design through to installation and commissioning, life operation, maintenance, refurbishment and decommissioning. Servicing the offshore and onshore oil and gas markets, we design and build complete subsea pipe-laying systems, including carousels, reel drives and tensioners. We can provide equipment (sale or hire) as an entire system or as separate components to work with your existing equipment.

CASE STUDY – Speciality Welds Ltd

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The Weldcraft-Pro™ training programme is an 80 hour training syllabus that follows the European Welding Federation (EWF) and International Institute of Welding (IIW) guidelines for underwater fillet-welder on plate. The course is certified through EAL. EAL is part of SEMTA – Sector Skills Council for Science, Engineering and Manufacturing Technologies and is UK's leading awarding-body for engineering qualifications. This certification provides independent, quality assured, audited controls, thus, making it



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the only externally awarded wet welding training programme to issue internationally recognised/verified qualifications anywhere in the world. The programme is also recognised by IMarEST, The Institute of Marine Engineering, Science and Technology under their CPD programme.

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The author is the companies MD, Mr. David J. Keats. David has worked in the industry since the early 70's and is a recognised industry expert in this field and has published a number of titles on underwater welding.

Speciality Welds Ltd



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We are industry experts, offering welding procedure development and approval, welder training and qualification testing, QA/QC advise, welding inspection/NDT. We are an approved EAL test centre and accredited Zurich welding surveyors. We offer the only accredited underwater welding course available; The Weldcraft-Pro and we manufacture a range of underwater welding products and consumables.

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Best known as UK market leaders in rental tools & equipment to the petrochemical, power, industrial and construction sectors Speedy now have a focused upstream oil & gas business with branches in Aberdeen and Peterhead & operations in the Middle East and Kazakhstan. The offshore business is developing a comprehensive hire & support service in compressed air, air/hydraulic tools, lifting & safety equipment – and brings to the sector a number of supply chain partners to offer a broad range of additional services. Branches across the UK are also ideally placed for offshore renewables.

SRP (Subsea Riser product)



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S

SRP, an Acteon company, supplies subsea hardware for the oil and gas industry, specialising in fatigue loaded applications, including risers and moorings, high strength steel components and welding. SRP's expertise extends to general subsea engineering, equipment integration, quality control and procurement – all skills developed from the design and delivery of an extensive range of products for subsea high pressure riser supply.

Stainless Steel Fasteners Limited

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STATS have developed a diverse range of pipeline isolation and repair products covering subsea oil, gas and marine pipelines. Our portfolio is built around a commitment to continued R&D and product development. STATS offer remote piggable pipeline isolation plugs, pipeline retrieval tools and dual seal structural repair clamps. STATS partner with major operators in the development and support of Emergency Pipeline Repair Isolation Systems (EPRIS) to minimise the downtime of damaged subsea pipelines. STATS EPRIS and subsea services provide fully engineered emergency pipeline repair equipment.

Steatite Limited

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Steatite design and manufacture specialist battery packs specifically for subsea and marine monitoring, unmanned vehicles and portable power. These are already utilised with success in oceanographic applications including Autonomous Underwater Vehicles (AUV),

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Stork is the expert provider of asset optimisation and integrity management services to the global oil & gas, chemical and power industries. With over 30 years experience and knowledge, our leading subsea integrity solutions and services are tailored to help our clients optimise performance by inspecting, protecting, maintaining, repairing and modifying assets.

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SUBC Engineering Ltd is subsea services and training company, headquartered in Aberdeen. Company provides top quality subsea engineering personnel with BOP, control and motion compensation equipment experience on a worldwide basis to drilling contractors, service companies and shipyards. SUBC can assist from supplying a subsea engineer for crew relief for a few days or to complete project management of BOP and control system upgrades installation and commissioning. Company also provides subsea and hydraulic training courses, accredited by IADC DIT and BFPA.

Subsea 7



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Subsea 7 is a global leader in the provision of engineering, construction and services to the offshore energy industry worldwide. With one of the world's most versatile fleets, we have a proven track record, built up over 35 years, of safely and reliably executing and integrating projects of all sizes and complexity in all water depths. With a strong focus on the subsea umbilical, riser and flowline (SURF) market globally, our extensive experience in major SURF, Life-of-Field, Conventional and Hook-up projects has made us a trusted partner with national and international energy companies

Subsea Deployment Systems Ltd



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SDS Ltd. offers a low cost method of installing or removing large subsea structures without using a Heavy Lift Vessel. The Subsea Deployment System is a safe, simple, low cost alternative to a conventional lifted installation. It offers the potential to install or remove structures weighing up to several thousand tonnes in water depths of up to 3000m in the harshest environments using a small crane vessel or anchor handling tug.

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Formed in 1985 by a team of experienced engineers and diving professionals Subsea Innovation is a company dedicated to delivering state of the art engineering products to the offshore oil & gas and energy industry throughout the world. Subsea Innovation are a world leader across their extensive product range that can be split into the following categories: offshore equipment handling systems pipeline repair/recovery systems subsea sealing systems subsea innovation also provide after care, spare parts and installation supervision services to all of their products.

Subsea Protection Systems



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SPS designs and manufactures products for the protection and stabilisation of structures, cables, pipelines and other assets in the subsea environment. It operates globally in the offshore energy sector, with a successful track record of delivering major projects in the oil and gas and offshore renewable sectors. SPS offers innovative engineering solutions for subsea challenges such as scour and impact protection.

Surface Technology International Limited



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www.sti-limited.com

Contract Electronics Manufacturer providing high-reliability electronic systems including sensors at the tip of deep sea drill heads that are used for the extreme working conditions of oil and gas subsea exploration. STI has many years' experience of supplying assemblies and full systems for the most severe conditions. Many of our clients in the energy sector appreciate the specialist processing and production facilities that we can provide. These include our controlled manufacturing environment including dedicated cells, complemented by extensive testing facilities.

Swagelining Limited

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E david.whittle@swagelining.com

1 Aurora Avenue, Clydebank
Glasgow G81 1BF
www.swagelining.com

Swagelining Limited is where polymer materials engineering meets pipeline construction. In the subsea hydrocarbon sectors, Swagelining is becoming an increasingly important solution for protecting new and existing pipelines from internal corrosion. The technology has benchmark status in water injection systems and is now being recognised for higher temperature and hydrocarbon applications where previously only corrosion resistant alloys were considered as suitable. Swagelining Limited offers an Integrated Lining Service delivering polymer lining protection to flowlines and risers worldwide.

Swathe Services



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Truro, Cornwall TR1 2XN
www.swathe-services.com

Swathe Services supplies highly skilled survey support personnel, rental and sales of survey equipment to marine engineers, dredging contractors and survey companies. Our team of IHO/FIG CAT A surveyors specialise in swathe bathymetry using multi-beam and interferometry systems. Approved distributors for The Oceanscience Group, R2SONIC, Valeport and Applanix.

Swiftool Precision Engineering Ltd



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Huthwaite, Nottingham NG17 2NL
www.swiftool.co.uk

Swiftool Precision Engineering Ltd is a progressive UK award winning sub-contract manufacturing business of excellence. SPE specialise in the supply of high integrity subsea precision machined components, kits, mechanical assemblies and turnkey engineering projects. Delivered in accordance to the oil & gas sectors national and internationally recognised standards. Nottinghamshire based, in a 35,000 sq ft facility SPE offer exceptional HSE, quality and delivery performance to our global customers.

Technip Umbilical Systems



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Walker Riverside
Newcastle upon Tyne NE6 3NL
www.technip.com

Technip Umbilical Systems (TUS) market a comprehensive range of bespoke umbilical systems, subsea products and offshore services backed by a 30-year record of excellence in project execution, strong engineering capabilities and a singular focus on creating value for our clients. With manufacturing facilities in UK, USA, West Africa, and Malaysia, we deliver exceptional turn-around and service to clients all over the world. A major capital investment program is further upgrading our assets to include the worlds most modern steel tube umbilical manufacturing facility at our UK facility.

Teledyne Oil and Gas

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www.teledyneoilandgas.com

Teledyne Oil & Gas delivers high reliability engineered solutions for subsea/topside pipeline asset integrity monitoring, sensing and power/data network interfacing and distribution applications in the oil and gas exploration and production industry. Products and services: flow assurance and pipeline asset integrity sensing and monitoring; electrical, optical penetrations, and distribution systems for power and data network interfacing; cable solutions for harsh environments; application focused new product development with systems and materials expertise.

Teledyne TSS Limited



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www.teledyne-tss.com

Teledyne TSS designs and manufactures a range of subsea sensors for motion measurement, navigation and pipe and cable survey and tracking.

TETRA Offshore Services - EOT Cutting



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Aberdeenshire AB51 3XY
www.tetrathec.com

A TETRA Company, has been providing decommissioning cutting solutions to the oil and gas industry since 2006. With more than 15,000 successful cuts of various types, the experience of EOT is recognized around the world. The Offshore Division of TETRA Technologies, including EOT, is ISO 9001:2008 Certified.

The Underwater Centre

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www.theunderwatercentre.com

The Underwater Centre is the ideal location to conduct subsea trials and testing, allowing you to get the best from your trial in a quick and cost effective way. With tidal water depths over 150m, an onshore seawater tank and experienced personnel,

the Centre provides a convenient solution to subsea testing. The Centre also provides specialist training for commercial divers, ROV pilot technicians and associated support staff at its purpose built facilities, replicating the offshore environment, as well as bespoke training programmes for corporate clients in a contextual experience environment.

Tiger Lifting



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Unit 1, Greensfield Industrial Estate
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www.tigerlifting.com

Home of the Tiger Hoisting range & Tiger Subsea lifting products. Manufacturing lifting products for 50 years we continue to innovate and work with end users to offer fit for purpose lifting machines and accessories for the ever changing offshore and subsea environments.

Transvac – Ejector Solutions



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Alfreton, Derbyshire DE55 4R
www.transvac.co.uk

T-V

With no moving parts and no maintenance Transvac's Ejector technology (sometimes known as Surface Jet Pumps) is an ideal solution for subsea processing.

- Gas compression for Production boosting – Well unloading – Recovery of LP Gas – Entrainment of Multi-Phase liquids – Hydrocyclone pressure boosting – Separator flushing – Sand slurry pumping / boosting – Boosting multi-phase Degasser flow – Multi-phase pumping – Micro-bubble generation – Flow metering – Flow Restrictor / Pressure let-down.

Tratos Ltd



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www.tratos.eu

Tratos have been producing cables for use in the oil and gas industry for over 40 years. We provide cables for a large variety of onshore and offshore operations, including umbilical cables for offshore applications, as well as highly specialised surface cables. Tratos produce cables to meet numerous standards, mud resistant types, and American, British and European standards including NEK 606, BS6883 & UKOOA.

Trelleborg Offshore

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Using advanced polymer material technology, Trelleborg Offshore provides high integrity solutions for the harshest & most demanding offshore environments. We specialize in the development & production of polymer, rubber & syntactic foam based products. Our innovative engineered solutions accelerate performance for customers in a sustainable way.

Tripak Limited

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www.tripakltd.com

Major supplier to specialist tapes and products used in subsea umbilical manufacture.

Tritech International Ltd

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Tritech International Limited [Tritech], a Moog Inc. company, is a high-technology business dedicated to providing the most reliable imaging and ancillary equipment for use in underwater applications and remains an industry leader in the provision of sensors and tools for ROVs and AUVs. The company's Sales & Customer Support offices are located in Westhill, Aberdeenshire, Scotland and in Katy, Texas. Tritech also provides a dedicated support office in Macae, Brazil. The company's design & production sites are located in Ulverston, Cumbria and in Edinburgh, Scotland.

CASE STUDY – Trelleborg Offshore

Leading global manufacturer of polymer and syntactic foam-based solutions, Trelleborg, was awarded a contract to provide MOV Flexibles with 25 polyurethane vertebrae bend restrictor assemblies for static flowlines on the field development and production expansion of the Parque das Baleias oil field, offshore Brazil.

The polyurethane restrictors brought a number of significant benefits to the project such as reduced installation and maintenance time and more cost-effective materials, with significantly lower whole life cost, as plastic does not corrode. The restrictors also have a greatly reduced weight, making them neutrally buoyant in water, meaning considerably less stress is applied to the flowline and adjacent parts of the subsea structure during both installation and service.

The P-58 FPSO, which operates on the Baleia Azul field in the Parque das Baleias area, north of the Campos Basin, is moored 48 miles/78 km offshore in a water depth of 4,593 feet /1,400 meters, and is expected to last for 25 years.

Successfully completing this job is another major achievement in an important growth region for Trelleborg and demonstrates our support of our customers' pursuit to reach greater subsea depths.



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Trouvay & Cauvin Ltd



Channelling energy

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www.trouvaycauvin.com/uk

Subsea forged fittings, flanges, connectors and valves are the main subsea focus for Trouvay & Cauvin Ltd. With European manufacturers, who stand for compliance, competitiveness and flexibility, T&C are confident that their range of subsea products will compliment their existing product range of valves, SPs and piping.

TWI Ltd



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www.twi.co.uk

TWI is a world leading research and technology organisation. Over 700 staff give impartial technical support in welding, joining, material science, structural integrity, NDT, surfacing and packaging. Services include generic research, confidential R&D, technical information, technology transfer, training and qualification.

UTEC Geomarine



UTEC
GEOMARINE

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A part of the UTEC group, UTEC Geomarine provides a wide range of geotechnical services supporting the offshore project life cycle including expert engineering and specialist operations. The company is fundamentally committed to providing innovation. Our services are designed to add value and provide focussed solutions to the seabed investigation, intervention, excavation, and trenching challenges faced by these complex and demanding industries.

UTEC Survey Construction Services Ltd



UTEC

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UTEC is one of the world's largest independent offshore survey companies providing a wide range of survey services including offshore positioning, construction support, geophysical (conventional towed and AUV) surveys, dimensional control (including laser scanning and 3D modeling) as well as geotechnical consultancy and sampling) services. UTEC has offices located around the world including Australia, Brazil, Canada, Indonesia, Italy, JAE, UK and USA.

Viking SeaTech



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www.vikingseatech.com

Viking SeaTech delivers long-standing expertise and industry-leading technological innovation. We are driven by a desire to lead the way to faster, safer, better marine and mooring operations. We provide our customers with an integrated service, relentlessly striving to meet the changing demands of the world's offshore energy assets.

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Viper Subsea Technology Limited



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Viper Subsea is a company specialising in providing management, engineering and procurement services and has substantial experience in subsea controls and distribution equipment, including Control Modules, Umbilicals, HPU, TUTU, SDU, UTAs, EDUs, SAMs, Stab Plates and Jumpers (electrical and hydraulic). Service include asset integrity management of subsea controls and distribution equipment. We have developed a unique set of services specialising in subsea electrical insulation failure identification and fault remedy based on the use of our proprietary technology.

Vulcan SFM



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Weir Valves & Controls UK Ltd

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WFS Technologies Ltd

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WFS is the world's leading supplier of subsea wireless instrumentation and control solutions for the oil and gas industry. From construction to decommissioning, WFS supports a range of applications to deliver increased safety, reliability and efficiency: wireless video to save ROV time and ensure right first time operations; wireless sensors for integrity management and field life extension; wireless monitoring and control of subsea assets; wireless data gathering from sensors using ROV or AUV; wireless powering and charging without wet-mate connectors; wireless ROV tools and sensors.

Wilton Engineering Services Ltd



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Wilton Engineering supports the offshore oil and gas industry with innovative designs, world class manufacturing and application of specialist coatings. Wilton's portfolio consists of: consultancy and FEED, design and analysis, fabrication and assembly, multidiscipline project management and construction, installation and commissioning, engineering and labour support services, and in-house shot-blasting, coating and painting services. Wilton's experience and capability supports all of these key areas independently or as complete turnkey solutions.

Wood Group Kenny



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Wood Group Kenny provides engineering design, project management, operations support and operations integrity assessment with thirty-five years worldwide experience covering offshore engineering, subsea, pipeline and riser design, materials engineering and renewable energy developments. We have more than 2800 professional staff in 27 offices worldwide providing multi-disciplinary teams for all stages of an engineering project, from concept design and front end engineering through detail design and into operations and decommissioning.



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Xodus Group a team of 160 Subsea & Pipeline resources offering core and specialist expertise across the full range of Subsea disciplines across the asset lifecycle. Drawing on the specialist skills and competencies of our people, Xodus can assist and guide clients in planning, designing, managing and supporting projects and operations from early design to decommissioning. Clients benefit from the integration that characterises Xodus Group – close collaboration and communication, data sharing, maximising opportunities and managing risks to make sure first oil/gas dates are met.

Zenocean Limited



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Zenocean have operated for over 20 years as a subsea engineering and project management contractor with explicit intent of bridging the gap between the front-end aspects of screening & selection of development options, to the subsea design environment and operational activities involved in subsea installation, intervention, IRM and decommissioning. The company has developed a reputation for high quality engineering and management. During this time Zenocean has worked for most oil and gas operators in the North Sea and in numerous overseas locations.



Withdrawn 17 May 2019

Subsea companies key services

Withdrawn 17 May 2019



Deep water developments lie at the heart of the subsea industry's future optimism – 481 deepwater discoveries were made between 2007 and 2012. Only 38% of all known deepwater reserves are in production, therefore the opportunity for expansion is substantial.

Source: 2013 Subsea Business Activity Review, Subsea UK

Subsea companies key services

A-B

Acoustic Positioning, Control & monitoring Equipment and services

Applied Acoustic Engineering Ltd	14
Ashtead Technology	14
Beauford Engineers	16
GEOxyz	29
Goodwin International Ltd	29
HGL Dynamics Ltd	31
InterMoor LTD	37
MDL part of Renishaw plc	40
N-Sea	42
Online Electronics Ltd	48
Pulse Structural Monitoring	51
Seatronics Ltd	55
Sonardyne International Ltd	56
Steatite Limited	58
Surface Technology International Limited	59
Swathe Services	60
TETRA Offshore Services - EOT Cutting	61
Tritech International Ltd	62
UTEC Survey Construction Services Ltd	63

Asset Integrity Management

ADIL	12
AMSIS Limited	14
Apollo Offshore Engineering	14
Aubin Integrity	15
DNV GL	25
Flexlife Limited	26
Frazer-Nash Consultancy Ltd	27
Fugro GEOS Ltd	27
GCG Group	28
Innospection Ltd	36
Intec (UK) Ltd	36
INTECSEA (UK) Limited	36
IQ Integrity Ltd	37
JPR Cables	38
MACAW Engineering Ltd	39
Maxoil Solutions Ltd	40
Monaco Engineering Solutions Limited	42
Pelagian Ltd	49
Pulse Structural Monitoring	51
Rawwater Engineering Company Ltd	52
SETS	55
Stork	58
Teledyne Oil and Gas	61
Tritech International Ltd	62
TWI Ltd	63
UTEC Survey Construction Services Ltd	63
Viper Subsea Technology Limited	64
Xodus Group Ltd	65
Zenocean Limited	65

Bend stiffeners / Restrictors

Ambi NDT Ltd	13
Balmoral Offshore Engineering	16
First Subsea Ltd	26
Malacast	45
Quadrant EPP UK Ltd	52
Stainless Steel Fasteners Limited	58
Trelleborg Offshore	62

Buoyancy / Flotation

3M	12
Aubin Subsea	15
Balmoral Offshore Engineering	16
Flowline Specialists Limited	26
Forum Subsea Technologies	26
InterMoor LTD	37
Manuplas Ltd	39
Offspring International Ltd	48
Stainless Steel Fasteners Limited	58
Trelleborg Offshore	62

C-D

Cables and protection
equipment and services

3M	12
Balmoral Offshore Engineering	16
Celanese	20
DeepOcean	22
Derrick Offshore Ltd	23
Ecosse Subsea Systems Ltd	24
Eztek Ltd	25
Falmouth Divers Ltd	25
First Subsea Ltd	26
Hydro Group plc	35
Jee Limited	38
Manuplas Ltd	39
Pelagian Ltd	49
Reef Subsea Integrated Projects	52
ROCOL A Division of ITW Ltd	53
Scour Prevention Systems	54
SEACON (europe) Ltd	54
Subsea Innovation Ltd	59
Subsea Protection Systems	59
Tratos Ltd	62
Trelleborg Offshore	62
Tripak Limited	62

Coating systems

3M	12
Bodycote	17
Component Force Ltd	21
GCG Group	28
Hardide Coatings	30
Highland Galvanizers & Highland Colour Coaters	31
Marubeni Itochu Tubulars Europe plc	40
PRD Fasteners Ltd t/a LoneStar PRD	51
ROCOL A Division of ITW Ltd	53
Stork	58
Wilton Engineering Services Ltd	64

Corrosion management,
monitoring, control

Aubin Integrity	15
Bodycote	17
Buckleys (UVRAL) Ltd	18
DNV GL	23
Flexlife Limited	26
Frazer-Nash Consultancy Ltd	27
GCG Group	28
Innospection Ltd	36
Inspectahire Instrument Company Ltd	36
Intoco	37
IQ Integrity Ltd	37
MACAW Engineering Ltd	39
ROCOL A Division of ITW Ltd	53
Stork	58
Swagelining Limited	60
Teledyne Oil and Gas	61
TWI Ltd	63
WFS Technologies Ltd	64

Cryogenic equipment
and services

Halliburton Pipeline & Process Services	30
OneSubsea	48
Trouvay & Cauvin Ltd	63

Decommissioning

Allspeeds Ltd	13
Aubin Pipelines	15
Buchan Technical Services Limited	18
Byron LTD	18
Ceona	20
CETCO Energy Services Limited	21
Claxton Engineering Services Ltd	21
Cutting Underwater Technologies Ltd	22
Deep Tek Ltd	22
DeepOcean	22
DNV GL	23
Douglas-Westwood	24
First Subsea Ltd	26
Flowline Specialists Limited	26
Frazer-Nash Consultancy Ltd	27
Geoprober Limited	28
Hiretech Ltd	34
Hydro-Dynamics Ltd	35
Hydrobotics	35
Imenco UK Ltd	35
Intec (UK) Ltd	36
Maxoil Solutions Ltd	40
Offshore Installation Services Ltd (OIS)	45
PDL Solutions (Europe) Limited	49
Petrex Ltd	50

Subsea companies key services

D

Rawwater Engineering Company Ltd	52	Hydrobotics	35	Diving / ROV / Submersible Services	
Reef Subsea Integrated Projects	52	INTECSEA (UK) Limited	36	AGR Facilities Solutions AS	13
SETS	55	JDR Cables	38	Inmaritec Ltd	13
Ship-Inspect Ltd	56	Jee Limited	38	Arbin Subsea	15
Sparrows Baricon	56	Kongsberg Oil & Gas Technologies Ltd	38	Bibby Offshore Ltd	16
STATS Group	58	Mabbett	39	Bibby Remote Intervention Ltd (BRIL)	16
Subsea Deployment Systems Ltd	59	Maxoil Solutions Ltd	40	Bowtech Products Ltd	17
Subsea Protection Systems	59	McDermott International	40	Buckleys (UVRAL) Ltd	18
TETRA Offshore Services - EOT Cutting	61	Merlin ERD Limited	41	C-Tecnics	18
Tripak Limited	62	Neptune Subsea Engineering Limited	44	Derrick Offshore Ltd	23
Zenoccean Limited	65	PDL Solutions (Europe) Limited	49	DOF Subsea	23
		Pelagian Ltd	49	Etpm Ltd	25
Design and conceptual study services		Peritus International	50	European Submersible Systems	25
ADIL	12	Petrowatch Ltd	50	Falmouth Divers Ltd	25
AGR Facilities Solutions AS	13	Prospect	51	Fathom Systems Ltd	26
AlBex Engineering LTD	13	Q&L Industrial Marketing & Sales	51	Forum Subsea Technologies	26
Apollo Offshore Engineering	14	Quick Hydraulics Limited	52	Fugro Subsea Services Limited	27
AS Mosley & Co Ltd	14	Sembmarine SLP Limited	55	GEOxyz	29
Atkins	14	Senergy	55	Hallin Marine	30
Atmos International Ltd	15	Severn Subsea Technologies	55	Hydro Group plc	35
Caley Ocean Systems	19	Sparrows Baricon	56	Hydro-Dynamics Ltd	35
Caltec Limited	19	Swagelining Limited	60	i-Tech	35
CAMROV Subsea Ltd	19	WFS Technologies Ltd	64	Imenco UK Ltd	35
Claxton Engineering Services Ltd	21	Wilton Engineering Services Ltd	64	McDermott International	40
Contract Design (Northern) Ltd	22	Wood Group Kenny	65	N-Sea	42
CSL	22	Xodus Group Ltd	65	National Hyperbaric Centre	43
Deep Tek Ltd	22	Zenoccean Limited	65	Ocean Installer	45
EFC Group	24			PhotoSynergy Ltd	50
Evenort LTD	25			Premier Chemicals Ltd	51
First Subsea Ltd	26			Quadrant EPP UK Ltd	52
Geoprober Limited	28			Reef Subsea Integrated Projects	52
Glentrading (UK) Ltd	29			Remote Ocean Systems Ltd	52
GMC Limited	29			Ship-Inspect Ltd	56
Green Palm Marine Consultancy	29			Silvercrest/SME	56
Hallin Marine	30			SMD	56
HTL	34			Speciality Welds Ltd	57

D-E

Steatite Limited	58		
Subsea 7	59		
TETRA Offshore Services - EOT Cutting	61		
Tiger Lifting	61		
Drilling & Well Intervention			
2H Offshore	12		
AS Mosley & Co Ltd	14		
Bodycote	17		
Byron LTD	18		
Claxton Engineering Services Ltd	21		
Douglas-Westwood	24		
EFC Group	24		
Eztek Ltd	25		
Fugro GEOS Ltd	27		
Geoprober Limited	28		
Halliburton Pipeline & Process Services	29		
i-Tech	35		
Merlin ERD Limited	41		
Newburgh Engineering	44		
NGK Berylco (UK) Ltd	44		
Offshore Installation Services Ltd (OIS)	45		
OneSubsea	48		
Quest Offshore Strategic Resources	52		
Steatite Limited	58		
Surface Technology International Limited	60		
Wood Group Kenny	65		
Education & training			
AlBex Engineering LTD	13		
Atlas	15		
b solutions	16		
Cairndene	29		
Capita Health and Wellbeing	33		
Jee Limited	38		
Knighton Enterprises Ltd	38		
Mabbett	39		
Merlin ERD Limited	41		
Monaco Engineering Solutions Limited	42		
National Hyperbaric Centre	43		
National Oceanography Centre	43		
Oceanlab, University of Aberdeen	45		
OFI Ltd	49		
QUSL Industrial Marketing & Sales	51		
Speciality Welds Ltd	57		
SUBC Engineering Ltd	59		
The Underwater Centre	61		
TWI Ltd	63		
Electrical connection / Distribution equipment			
3M	12		
Frazer-Nash Consultancy Ltd	27		
Hydro Group plc	35		
Imtech Marine UK Ltd	35		
Pelagian Ltd	49		
SEACON (europe) Ltd	54		
Teledyne Oil and Gas	61		
Viper Subsea Technology Limited	64		
Emergency Planning and Response			
Atmos International Ltd	15		
Bale Ocean Systems	19		
Capita Health and Wellbeing	19		
Hydratight Limited	34		
National Hyperbaric Centre	43		
PhotoSynergy Ltd	50		
Equipment rental services			
Ashtead Technology	14		
Buchan Technical Services Limited	18		
Caltec Limited	19		
CAMROV Subsea Ltd	19		
CETCO Energy Services Limited	21		
Ecosse Subsea Systems Ltd	24		
European Submersible Systems	25		
Eztek Ltd	25		
Fisher Offshore	26		
Flowline Specialists Limited	26		
General Welding Supplies (NW) Ltd	28		
Hydratight Limited	34		
Imenco UK Ltd	35		
Inspectahire Instrument Company Ltd	36		
MDL part of Renishaw plc	40		
Scotia Instrumentation Ltd	54		
Seatronics Ltd	55		
Sparrows Baricon	56		
Speedy Asset Services	57		
Swathe Services	60		
UTEC Geomarine	63		
Viking SeaTech	63		

Subsea companies key services

F-G

Fabrication & machining

3Ks Engineering Company Ltd	12
Alnmaritec Ltd	13
Beauford Engineers	16
Bodycote	17
CAMROV Subsea Ltd	19
Component Force Ltd	21
Concept Steels Ltd	21
Destec Engineering Ltd	23
DMI Precision Engineering Limited	23
Evenort LTD	25
General Welding Supplies (NW) Ltd	28
Hawke Precision Engineering	30
Hydratight Limited	34
Intoco	37
Jackson Engineering	37
Metal Fabrication Systems Ltd	41
Metflex Precision Rubber Components Ltd	41
Mokveld UK Ltd	41
Neptune Subsea Engineering Limited	44
Newburgh Engineering	44
Nylacast	45
Oldham Engineering Ltd	48
Perfect Bore Manufacturing Limited	50
Pipe and Tube Machines Ltd	50
PRD Fasteners Ltd t/a LoneStar PRD	51
Quadrant EPP UK Ltd	52
Responsive Engineering Group	53
RJD Engineering	53
Schoolhill Hydraulic Engineering Co Ltd	54
Seafab Consultants Ltd	54
Sembmarine SLP Limited	55

Stainless Steel Fasteners Limited	58
Stephenson Engineering	58
Swiftool Precision Engineering Ltd	60
Transvac - Ejector Solutions	61
Wilton Engineering Services Ltd	61

Failure & Forensic investigation

MACAW Engineering Ltd	39
TWI Ltd	63

Flow assurance equipment and services

Apollo Onshore Engineering	14
Atlas	14
Amos International Ltd	15
Aubin Pipelines	15
CETCO Energy Services Limited	21
Frazer-Nash Consultancy Ltd	27
Goodwin International Ltd	29
Halliburton Pipeline & Process Services	30
INTECSEA (UK) Limited	36
Kongsberg Oil & Gas Technologies Ltd	38
Kos Kent Introl Limited	38
KW Subsea	39
Maxoil Solutions Ltd	40
OneSubsea	48
Online Electronics Ltd	48
Paradigm Flow Services Limited	49
PDL Solutions (Europe) Limited	49
Peritus International	50
Rawwater Engineering Company Ltd	52

Senergy	55
Subsea Innovation Ltd	59
Teledyne Oil and Gas	61
Transvac - Ejector Solutions	61
Weir Valves & Controls UK Ltd	64
Wood Group Kenny	65
Xodus Group Ltd	65

Geohazard and Site Investigation

Applied Acoustic Engineering Ltd	14
Coda Octopus Products Ltd	21
Senergy	55
UTEC Survey Construction Services Ltd	63

Geophysical / Geotechnical Services

Applied Acoustic Engineering Ltd	14
Ashtead Technology	14
GEOxyz	29
N-Sea	42
NGK Berylco (UK) Ltd.	44
Pelagian Ltd	49
Scour Prevention Systems	54
Seatronics Ltd	55
Senergy	55
Swathe Services	60
UTEC Geomarine	63
UTEC Survey Construction Services Ltd	63
Xodus Group Ltd	65

H-I

Hydraulic equipment & services

Allspeeds Ltd	13
b solutions	16
BiS Valves Limited	17
CAMROV Subsea Ltd	19
DMI Precision Engineering Limited	23
Fisher Offshore	26
Hiretech Ltd	34
HTL	34
Hydratight Limited	34
Hydrobotics	35
MP Filtri UK Ltd	42
NGK Berylco (UK) Ltd.	44
Pipe and Tube Machines Ltd	50
Quick Hydraulics Limited	52
Saint-Gobain Seals Group	53
Schoolhill Hydraulic Engineering Co Ltd	54
Silvercrest/SME	56
Speedy Asset Services	57

Inspection, Repair and Maintenance

Alnmaritec Ltd	13
Ambix NDT Ltd	15
AMSIS Limited	24
Aubin Integrity	15
Aubin Pipelines	15
Bibby Offshore Ltd	16
Bibby Remote Intervention Ltd (BRIL)	16
Bowtech Products Ltd	17
Buckleys (UVRAL) Ltd	18
Byron LTD	18
CETCO Energy Services Limited	21
Coda Robotics Products Ltd	21
Cutting Underwater Technologies Ltd	22
DeepOcean	22
DMI Precision Engineering Limited	23
DOF Subsea	23
Douglas-Westwood	24
Falmouth Divers Ltd	25
Forum Subsea Technologies	26
Fugro GEOS Ltd	27
Fugro Subsea Services Limited	27
GCG Group	28
Glentrading (UK) Ltd	29
Hallin Marine	30
Harkand	30
Hayward Tyler	31
HTL	34
Hydro-Dynamics Ltd	35
Hydrobotics	35
i-Tech	35
Imtech Marine UK Ltd	35
Innospection Ltd	36

Inspect Hire Instrument Company Ltd	36
Intec (UK) Ltd	36
IQ Integrity Ltd	37
JDR Cables	38
Kos Kent Introl Limited	38
Mabbett	39
Monaco Engineering Solutions Limited	42
MP Filtri UK Ltd	42
N-Sea	42
Ocean Installer	45
Online Electronics Ltd	48
Paradigm Flow Services Limited	49
Petrex Ltd	50
Pulse Structural Monitoring	51
Quick Hydraulics Limited	52
Reef Subsea Integrated Projects	52
ROCOL A Division of ITW Ltd	53
Saab Seaeye Ltd	53
Schoolhill Hydraulic Engineering Co Ltd	54
Scour Prevention Systems	54
SETS	55
Ship-Inspect Ltd	56
Sonardyne International Ltd	56
Speciality Welds Ltd	57
STATS Group	58
SUBC Engineering Ltd	59
Subsea 7	59
TETRA Offshore Services - EOT Cutting	61
TWI Ltd	63
Viking SeaTech	63
WFS Technologies Ltd	64
Zenocan Limited	65

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Subsea companies key services

I-M

Installation & commissioning

AMSIS Limited	14
Apollo Offshore Engineering	14
Aubin Pipelines	15
Bibby Offshore Ltd	16
Bibby Remote Intervention Ltd (BRIL)	16
Byron LTD	18
Ceona	20
CETCO Energy Services Limited	21
Deep Tek Ltd	22
DeepOcean	22
DOF Subsea	23
Douglas-Westwood	24
Ecosse Subsea Systems Ltd	24
General Welding Supplies (NW) Ltd	28
GMC Limited	29
Green Palm Marine Consultancy	29
Harkand	30
Hayward Tyler	31
Imtech Marine UK Ltd	35
Indicomm Global Limited	36
McDermott International	40
N-Sea	42
Offshore Installation Services Ltd (OIS)	45
Petrex Ltd	50
Quick Hydraulics Limited	52
Schoolhill Hydraulic Engineering Co Ltd	54
SETS	55
Ship-Inspect Ltd	56
STATS Group	58
SUBC Engineering Ltd	59
Subsea 7	59
Subsea Protection Systems	59
Wilton Engineering Services Ltd	64

Integrity Management & Monitoring

2H Offshore	12
ADIL	12
Atkins	14
Atmos International Ltd	15
Aubin Integrity	15
Bowtech Products Ltd	17
Buckleys (UVRAL) Ltd	18
CSL	22
Fugro GEOS Ltd	27
HGL Dynamics Ltd	31
Innospection Ltd	36
IQ Intertek Ltd	37
JBR Cables	38
Joe Limited	38
Kongsberg Oil & Gas Technologies Ltd	38
KW Subsea	39
Mabbett	39
MACAW Engineering Ltd	39
Maxoil Solutions Ltd	40
Merlin ERD Limited	41
Monaco Engineering Solutions Limited	42
Paradigm Flow Services Limited	49
Pulse Structural Monitoring	51
Stork	58
Viper Subsea Technology Limited	64
WFS Technologies Ltd	64
Wood Group Kenny	65

Maritime security

Ocean Power Technologies	45
PhotoSynergy Ltd	50
Sonardyne International Ltd	56

Measurement / Metrology / NDT equipment and services

Ashtead Technology	14
Buckleys (UVRAL) Ltd	18
DWI Precision Engineering Limited	23
Innospection Ltd	36
Inspectahire Instrument Company Ltd	36
MDL part of Renishaw plc	40
MP Filtri UK Ltd	42
Ocean Power Technologies	45
Scotia Instrumentation Ltd	54
Surface Technology International Limited	60

Medical / Emergency Response Equipment and services

Capita Health and Wellbeing	19
-----------------------------	----

Mooring / Buoy systems

Aubin Subsea	15
Balmoral Offshore Engineering	16
DOF Subsea	23
First Subsea Ltd	26
InterMoor LTD	37
KW Subsea	39
Manuplas Ltd	39
Nylacast	45
Ocean Power Technologies	45
Offspring International Ltd	48
SRP (Subsea Riser product)	57
Viking SeaTech	63

N-P

Naval architecture

Apollo Offshore Engineering	14
Contract Design (Northern) Ltd	22
Green Palm Marine Consultancy	29
InterMoor LTD	37
Offspring International Ltd	48
Prospect	51

Navigation equipment and Services

Imtech Marine UK Ltd	35
InterMoor LTD	37
MDL part of Renishaw plc	40
Navigation Engineering Services Ltd	44
Offspring International Ltd	48
Sonardyne International Ltd	56
Teledyne TSS Limited	61

Pipeline rigid / flexible Design, Inspection & Testing services

2H Offshore	12
Aubin Pipelines	15
Celanese	20
CSL	22
DNV GL	23
DOF Subsea	23
Flexlife Limited	26
Glentradng (UK) Ltd	29
GMC Limited	29
Green Palm Marine Consultancy	29
Halliburton Pipeline & Process Services	30
Hiretech Ltd	34
Inspectahire Instrument Company Ltd	36
INTECSEA (UK) Limited	36
Jee Limited	38

Kongsberg Oil & Gas Technologies Ltd	38
KW Subsea	39
Online Electronics Ltd	48
Peritus International	50
Quadrant EPP UK Ltd	52
Senergy	55
Subsea 7	59
Wood Group Kenny	65
Xodus Group Ltd	65

Pipelines Rigid / Flexible supply

Celanese	20
Copha	20
Component Force Ltd	21
Concept Steels Ltd	21
DNV GL	23
Ecosse Subsea Systems Ltd	24
Falmouth Divers Ltd	25
Marubeni Itochu Tubulars Europe plc	40
McDermott International	40
Quest Offshore Strategic Resources	52
SRP (Subsea Riser product)	57
Swagelining Limited	60

Positioning Services

Applied Acoustic Engineering Ltd	14
Aubin Subsea	15
Coda Octopus Products Ltd	21
General Welding Supplies (NW) Ltd	28
GEOxyz	29
MDL part of Renishaw plc	40
Seatronics Ltd	55
Viking SeaTech	63

Project Management Services

2H Offshore	12
ACE Technologies (UK) Ltd	12
DIL	12
AGR Facilities Solutions AS	13
AMSIS Limited	14
Bibby Offshore Ltd	16
Bibby Remote Intervention Ltd (BRIL)	16
Cairndene	19
Ceona	20
CSL	22
Docmate Services Ltd	23
Etpm Ltd	25
Falmouth Divers Ltd	25
Flexlife Limited	26
Geoprober Limited	28
Glentradng (UK) Ltd	29
Halliburton Pipeline & Process Services	30
Hallin Marine	30
Hydro-Dynamics Ltd	35
Indicomm Global Limited	36
Intec (UK) Ltd	36
INTECSEA (UK) Limited	36
JDR Cables	38
McDermott International	40
Neptune Subsea Engineering Limited	44
Ocean Installer	45
Offshore Installation Services Ltd (OIS)	45
Petrex Ltd	50
QoSL Industrial Marketing & Sales	51
SEACON (europe) Ltd	54
Sembmarine SLP Limited	55
SETS	55
UTEC Geomarine	63
Zenoccean Limited	65

Subsea companies key services

Q-S

Quality, Health, Safety and Environment

ADIL	12
Ambix NDT Ltd	13
Atmos International Ltd	15
Caiman Software Development Ltd	18
Capita Health and Wellbeing	19
Docmate Services Ltd	23
Intec (UK) Ltd	36
Mabbett	39
Monaco Engineering Solutions Limited	42
National Oceanography Centre	43
PhotoSynergy Ltd	50
QoSIL Industrial Marketing & Sales	51
Rawwater Engineering Company Ltd	52
ROCOL A Division of ITW Ltd	53
UTEC Geomarine	62

Remotely Operated Vehicles and Autonomous underwater vehicles

Bibby Offshore Ltd	16
Bibby Remote Intervention Ltd (BRIL)	16
Bowtech Products Ltd	17
CAMROV Subsea Ltd	19
Coda Octopus Products Ltd	21
DeepOcean	22
Derrick Offshore Ltd	23
Ennsub Ltd	24
Fugro Subsea Services Limited	27
Hayward Tyler	31
Hydro-Dynamics Ltd	35
Hydrobotics	35
i-Tech	35
National Oceanography Centre	43

Ocean Power Technologies	45
Saab Seaeeye Ltd	53
Seatronics Ltd	55
Silvercrest/SME	56
SMD	56
Steatite Limited	58
UTEC Survey Construction Services Ltd	63

Subsea Control & monitoring equipment and services

AMSIS Limited	14
C-Tecnic	18
EFC Group	24
Eteck Ltd	25
Fugro Subsea Technologies	26
Goodwin International Ltd	29
HGL Dynamics Ltd	31
Hydro Group plc	35
JDR Cables	38
LB Bentley Ltd	39
MP Filtri UK Ltd	42
Navigation Engineering Services Ltd	44
Newburgh Engineering	44
NGK Berylco (UK) Ltd.	44
OneSubsea	48
Online Electronics Ltd	48
Peritus International	50
Pulse Structural Monitoring	51
Quest Offshore Strategic Resources	52
Remote Ocean Systems Ltd	52
Scotia Instrumentation Ltd	54
Severn Subsea Technologies	55
SMD	56
Sonardyne International Ltd	56
Surface Technology International Limited	60
Tritech International Ltd	62
Viper Subsea Technology Limited	64

Subsea handling Equipment and services

3Ks Engineering Company Ltd	12
AGR Facilities Solutions AS	13
Baiford Engineers	16
Caley Ocean Systems	19
Ecosse Subsea Systems Ltd	24
Ennsub Ltd	24
Fisher Offshore	26
Flowline Specialists Limited	26
Hiretech Ltd	34
Imenco UK Ltd	35
Mokveld UK Ltd	41
Paradigm Flow Services Limited	49
PhotoSynergy Ltd	50
SMD	56
Sparrows Baricon	56
Speedy Asset Services	57
Subsea Innovation Ltd	59

Subsea Instrumentation and sensors

Ashtead Technology	14
C-Tecnic	18
Coda Octopus Products Ltd	21
EFC Group	24
Fugro GEOS Ltd	27
Mokveld UK Ltd	41
Navigation Engineering Services Ltd	44
NGK Berylco (UK) Ltd.	44
Ocean Power Technologies	45
Scotia Instrumentation Ltd	54
Speedy Asset Services	57
Steatite Limited	58
Teledyne Oil and Gas	61

S

Teledyne TSS Limited	61
Tritech International Ltd	62
Weir Valves & Controls UK Ltd	64
WFS Technologies Ltd	64

Subsea lifting and handling systems

3Ks Engineering Company Ltd	12
Allspeeds Ltd	13
Aubin Subsea	15
Beauford Engineers	16
Buchan Technical Services Limited	18
Caley Ocean Systems	19
Concept Steels Ltd	21
Deep Tek Ltd	22
EFC Group	24
Ennsub Ltd	24
First Subsea Ltd	26
Fisher Offshore	26
GMC Limited	29
Hayward Tyler	31
Imenco UK Ltd	35
Neptune Subsea Engineering Limited	44
Nylacast	45
Saab Seaeeye Ltd	53
Schoolhill Hydraulic Engineering Co Ltd	54
Sparrows Baricon	56
STATS Group	58
Subsea Deployment Systems Ltd	59
Subsea Innovation Ltd	59
Subsea Protection Systems	59
Tiger Lifting	61
Wilton Engineering Services Ltd	64

Subsea Mechanical Connection Systems

3Ks Engineering Company Ltd	12
AlBex Engineering LTD	15
AS Mosley & Co Ltd	24
Beauford Engineers	16
Concept Steels Ltd	21
Destec Engineering Ltd	23
Ennsub Ltd	24
Evenort LTD	25
Freudenberg Oil & Gas Technologies Limited	27
GMC Limited	29
Goodwin International Ltd	29
HTL	34
Hydratight Limited	34
Neptune Subsea Engineering Limited	44
Newburgh Engineering	44
Quadrant EPP UK Ltd	52
SRP (Subsea Riser product)	57
STATS Group	58
Stork	58
Subsea Innovation Ltd	59
Swiftool Precision Engineering Ltd	60
Trouvay & Cauvin Ltd	63
Viper Subsea Technology Limited	64

Subsea production systems

AGR Facilities Solutions AS	13
AlBex Engineering LTD	13
AS Mosley & Co Ltd	14
Arkins	14
Caltec Limited	19
Celanese	20
Component Force Ltd	21
Concept Steels Ltd	21
Douglas-Westwood	24
Forum Subsea Technologies	26
Glentrading (UK) Ltd	29
Goodwin International Ltd	29
Hayward Tyler	31
Hydro Group plc	35
Kongsberg Oil & Gas Technologies Ltd	38
Kos Kent Introl Limited	38
LB Bentley Ltd	39
Mokveld UK Ltd	41
Newburgh Engineering	44
OneSubsea	48
Pacson Valves	49
Paradigm Flow Services Limited	49
PDL Solutions (Europe) Limited	49
Quest Offshore Strategic Resources	52
Reef Subsea Integrated Projects	52
Saint-Gobain Seals Group	53
Severn Subsea Technologies	55
Silvercrest/SME	56
Swiftool Precision Engineering Ltd	60
Technip Umbilical Systems	60
Transvac - Ejector Solutions	61
Tritech International Ltd	62
Weir Valves & Controls UK Ltd	64

Subsea companies key services

T-W

Test facilities

Buchan Technical Services Limited	18
Claxton Engineering Services Ltd	21
HTL	34
JDR Cables	38
MACAW Engineering Ltd	39
Manuplas Ltd	39
Narec Ltd	43
National Hyperbaric Centre	43
Oceanlab, University of Aberdeen	45
PRD Fasteners Ltd t/a LoneStar PRD	51
SEACON (europe) Ltd	54
Severn Subsea Technologies	55
The Underwater Centre	61
Transvac - Ejector Solutions	61

Thermal insulation

Trelleborg Offshore	62
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Thrusters & propulsion systems

Imtech Marine UK Ltd	35
Saab Seaeye Ltd	53
Silvercrest/SME	56

Umbilical /riser equipment and services

2H Offshore	12
Allspeeds Ltd	13
Ambix NDT Ltd	13
AS Mosley & Co Ltd	14
Aubin Integrity	15
Balmoral Offshore Engineering	16
C-Tecnics	18
Celanese	20

Ceona	20
Cutting Underwater Technologies Ltd	22
Derrick Offshore Ltd	23
Ennsub Ltd	24
Flexlife Limited	26
Flowline Specialists Limited	26
Green Palm Marine Consultancy	29
Hiretech Ltd	34
JDR Cables	38
KW Subsea	39
Metflex Precision Rubber Components Ltd	41
Ocean Installer	45
PDI Solutions (Europe) Limited	49
Peritus International	50
Quest Offshore Strategic Resources	52
SEACON (europe) Ltd	54
Subsea 7	59
Technip Umbilical Systems	60
Tratos Ltd	62
Trelleborg Offshore	62
Tripak Limited	62
Viking SeaTech	63
Vulcan SFM	64

Underwater Cutting equipment and services

Allspeeds Ltd	13
Claxton Engineering Services Ltd	21
Cutting Underwater Technologies Ltd	22
Deep Tek Ltd	22
Fisher Offshore	26
Speciality Welds Ltd	57
TETRA Offshore Services - EOT Cutting	61

Vessel / Ship brokers and services

Alnmaritec Ltd	13
Clarkson Enship	21
Derrick Offshore Ltd	23
Etpm Ltd	25
GEOxyz	29
Hallin Marine	30

Welding products, equipment and services

3M	12
Ambix NDT Ltd	13
b solutions	16
Bodycote	17
Brogan Fuels	18
Component Force Ltd	21
General Welding Supplies (NW) Ltd	28
Mokveld UK Ltd	41
Pipe and Tube Machines Ltd	50
Premier Chemicals Ltd	51
Saab Seaeye Ltd	53
Speciality Welds Ltd	57
Speedy Asset Services	57



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