



Invest
**Northern
Ireland**

Northern Ireland
Oil and Gas Supply
Chain Capability



Northern Ireland Oil and Gas Supply Chain Capability

Northern Ireland's offshore resources and strategic location puts it in a strong position to compete for emerging supply chain opportunities including research and development, device manufacturing and assembly, installation and decommissioning engineering services, as well as operation and maintenance services.

Invest Northern Ireland, the region's economic development agency, has been actively helping companies gear up to meet these opportunities. With the help of Invest NI, over 200 companies have now diversified either part or all of their operations to increase the capability of the supply chain in the region. The region's long heritage of engineering excellence means that its companies and skilled labour force can provide engineering expertise that offers innovative solutions to the oil and gas and the sustainable energy sectors.

This oil and gas supply chain brochure promotes some of the companies that have the capability of providing products and services to the energy markets in the UK and internationally.

With regard to inward investment, Northern Ireland can offer low operating costs, an experienced workforce and a strong supply chain to make it ideal location for anyone looking to make the most of opportunities in this sector.

If you wish to access supply chain companies in the oil and gas or the sustainable energy sectors or enquire about investing in Northern Ireland visit www.investni.com

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Description of Company/Facility

Advanced Sensors Ltd, based in Carrickfergus, is a leading global supplier of Oil in Water analyzers to the Oil and Gas Industry. We provide innovative solutions that guarantee our analyzers are self-cleaning, reliable and durable. Accurate measurement ensures process and environmental control and offers early warning indicators of leaks and discharges.

Expertise/ Capabilities

Advanced Sensors combines measurement technologies such as fluorescence and video microscopy to provide precise readings with ultrasonics which ensure the analyzers stay clean, offering complete solutions that meet the customers' requirements.

Our mission is to improve water content measurement by remaining at the forefront of research and development and delivering high performance solutions.



Services Available

The Advanced Sensors Oil in Water analyzers are available in side stream and inline probe formats, which operate in harsh environments with zero routine maintenance consistently providing highly accurate and reliable results for oil in water concentration and particle size measurement (TSS).

Advanced Sensors has a proven track in providing solutions to meet the stringent requirements for offshore rigs and FPSOs worldwide, including both discharge management and process control and improvement. Our devices are also certified to global marine standards for vessel discharge.

Onshore, the analyzers deliver performance to refineries, terminals, tank farms, power stations and general waste water management.

Advanced Sensors -providing you with the World's Best Oil in Water Analyzers.

Allpipe Engineering

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Description of Company/Facility

Allpipe Engineering Limited was established in February 1994. Our Londonderry site incorporates production facilities and Group project support facilities including Engineering Drawing Office, Carbon & Stainless Steel fabrication shops, Class 10,000 clean rooms, NDT facility, Paint shop and various other facilities to support our daily operations.

Expertise/ Capabilities

Our strategy is to further develop our current M&E services to the oil and gas industry via our existing customer base and to seek out new customers. We currently provide M&E services in the oil and gas sector to Exxonmobil, Inver Energy, Greenenergy Lissan Oil Company and PDE. Our portfolio of blue collar customers in oil and gas also include BP, ESBNI Coolkeeragh, AMEC and Statoil.

We have just recently won the Londonderry Chamber of Commerce "Business of the year Best Innovation award" for our systems, process and proactive approach to both safety and quality.

Allpipe's Company mission statement further explains our core values for the company:

"At Allpipe we value the Health & Safety of our employees and clients. Our actions reflect our ultimate goal of zero accidents and incidents. Which go hand in hand with our commitment to quality and excellence"

Allpipe currently employ 120 personnel at its manufacturing operation based at Maydown.



Barton Industrial Services Ltd

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Description of Company/Facility

Established in 1985, Barton Industrial Services Ltd provides a range of fall protection and lifting solutions and products suitable for use within the harsh environments of the oil and gas industry. Our own highly trained technicians and our technical department carry out specialist design and work off-shore and on-shore in Ireland, Great Britain and Europe.

Expertise/ Capabilities

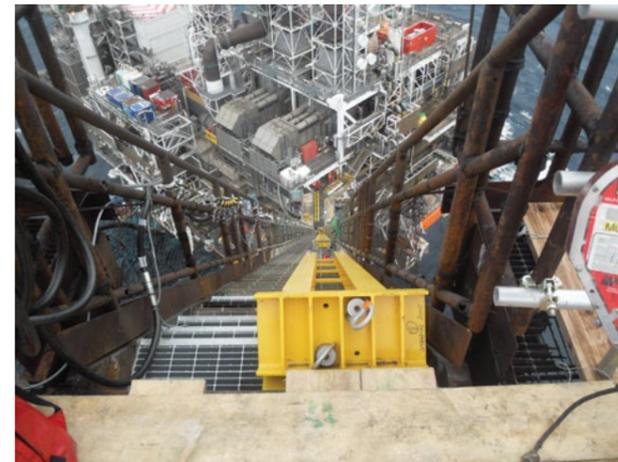
Barton's design department was delighted to bring to its client EnerMech Ltd a bespoke, reliable and innovative solution regarding safe access to the flare deck of the Judy platform.

Working in harsh conditions at sea, our team of highly trained technicians installed 60 metres of Latchways BridgeLatch fall protection systems to the handrails of the flare deck access stairs. Equipped with a BridgeLach travelling device, our client's maintenance engineers were able to walk up to the deck safely and unhindered. The BridgeLach unit rotates freely through the intermediate cable guides to give the user continuous hands-free protection. In the event of a fall, the BridgeLach unit locks onto the cable and arrests the fall. It can be used on an incline of up to 70°. All Latchways components are independently tested and are now ATEX rated for use in explosive environments.

Services Available

Barton's main services include:

- Horizontal, vertical and overhead fall protection systems.
- Self- retractable lifelines (Inertia reels).
- Drilling rig rescue & escape devices.
- Ladders, handrails and accessories.
- Lifting gear.



CEI Collins Engineers Ltd

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Description of Company/Facility

CEI Collins Engineers Ltd. is a part of the Collins Engineers, Inc. group of companies, a multinational multi-disciplined consulting engineering firm headquartered in Chicago, Illinois. The group's core areas of expertise lie in structural engineering, transportation analysis, design of transportation systems and related structures, and underwater engineering.

Collins has offices in Dublin, Belfast and Manchester, and serves Ireland and the UK providing both specialist and traditional engineering consulting services to a wide variety of important clients.

Expertise/ Capabilities

Collins has a wide range of structural inspection, marine engineering, NDT evaluation, design/analysis, repair/restoration and training experience. Collins' staff includes in-house engineer-divers that are trained to inspect, design and assess any type of underwater structure. Staff includes certified underwater weld and non-destructive testing personnel. Collins also utilizes underwater acoustic imaging to perform high resolution scans of the underwater portion of a structure.

Previously, Collins was commissioned by Airtricity Operations to design and conduct a comprehensive two-day wind turbine foundation inspection training course. They also performed foundation assessments of wind turbine structures for Airtricity and provided construction observation services for the remedial work and have also performed NDT inspections on renewable energy structures and performed contractor analysis for lifting of wind turbine tower components, as well as designing micro-tunnelling activities for wind farm cabling routes.

Standards Adopted/Industry Memberships & Accreditations

Collins operates a Quality Management System which complies with the requirements of ISO 9001:2008 and is a member of the National Irish Safety Organisation. Their staff members are experienced in a variety of wind energy industry activities including logistical review for product shipping/storage at ports, construction rigging crane analysis of lifting components, structure inspection, and site design. Two staff members serve on Renewable Energy Marine Committees including Structures, Reliability/Risk, and Marine Cables.

Services Available

With 20 offices in the UK, Ireland and the USA, the company provides both specialty and traditional engineering consulting services to a wide variety of clients.

In addition to unique capabilities like underwater diving and rope-access climbing at heights, Collins provides structural and civil engineering services for heavy and industrial structures, offshore structures, and marine/inland renewable energy structures.



Europa Valve

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Description of Company/Facility

Europa Valve is a long established privately owned UK company with a range of valves designed and manufactured in the UK utilizing state of the art technology. Europa Valve bring a new dimension to valves with a dynamic, flexible approach offering a high quality product at a competitive price.

Expertise/ Capabilities

Europa Valve manufacture valves from 2" through 72", weight range 3kg to 10 tonnes. Valves are available in a wide range of materials ranging from Carbon Steel to Titanium. The company is approved to ISO 9001:2000 and PED by Lloyds Register Quality Assurance.

Services Available

Europa Valve is an established UK valve manufacturer working in the fields of oil and gas, desalination, water and other process industries specializing in the design and production of non-slam nozzle check valves engineered to meet their customers' requirements. Their mission to supply valves which are manufactured and designed in the UK from top quality UK material to their customers. They have the ability to manufacture bespoke valves from start to finish including casting in their own facility which allows for extremely fast turnaround when required.



Harland and Wolff Heavy Industries Limited

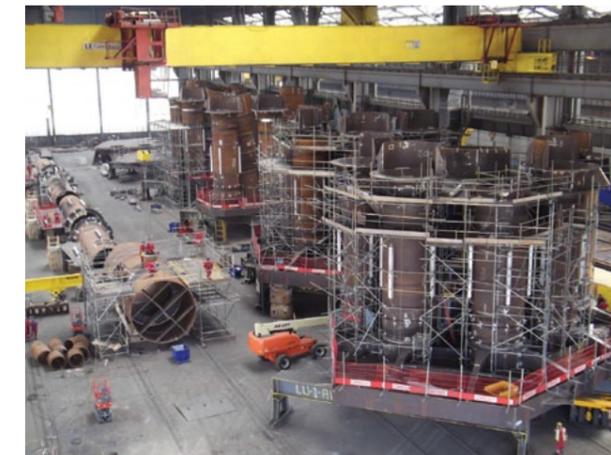
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Description of Company/Facility

A reputation for delivering quality, on time and on budget for over 150 years, has made Belfast's Harland and Wolff the marine manufacturer of choice for industry. Harland and Wolff have a long history of successful projects for the offshore oil, gas and more recently, renewable energy sectors.

- Design, conversion, repair and upgrade of vessels (including FPSOs, FSUs etc.) and oil and gas platforms
- Design and manufacture of offshore modules: Power generation modules, transformer platforms, operations/accommodation platforms etc.
- Design and manufacture of offshore oil, gas and wind farm foundations including jackets under 10,000 tonnes, 'Universal Foundation' suction bucket foundations, monopiles, jackets, tripods/quadrupods, gravity bases etc.
- Wave and tidal energy devices, prototype and mass production
- Irish sea logistics base
- Design Engineering Services, Marine design consultancy, Naval architecture



Expertise/ Capabilities

Harland and Wolff have one of Europe's largest marine & offshore heavy engineering facilities. Purposely developed to create some of the world's largest ocean-going vessels, the world class facilities are able to handle the largest of structures in a safe, productive and cost effective environment. That, coupled with a multi-million pound investment programme in new industry specific equipment, has led to a considerable number of recent completed projects and contract awards, which include:

- Dry Docking and Repair of the SeaRose FPSO for Husky Energy on an intensive 28 day programme, which was completed 4 days ahead of schedule with no lost time injuries.
- Working for Prime Contractor Kvaerner Verdal AS, construction of 8 large pile sleeve clusters, buoyancy tanks and conductor tubes for Edvard Grieg and Martin Linge oil platform jackets for the North Sea.
- Design and build of the Humber Gateway substation jacket for E.ON.
- Design and build 2 substations for Gwynt y Môr Offshore Wind Farm for Siemens.
- Marine Systems Design Engineering for FPSO 'Thang Long Dong Do' conversion
- Marine Design Engineering for FPSO 'Petroleo Nautipa' upgrade
- Assembly of 3,000t BARD 1 Offshore Wind Farm substation jacket with Prime Contractor Wesserwind.
- 3 OWF logistics projects and 3 suction installed Bucket Foundations for Dogger Bank and Firth of Forth OWFs.

Services Available

Harland and Wolff also operate a ship repair & conversion division, offering a unique combination of technical expertise and substantial physical facilities. Built over hundreds of successful projects, it has a worldwide reputation with owners and operators for strict standards of health and safety, quality and timely delivery for planned and emergency repairs to all vessel types, which is reflected in our high number of repeat customers.

McAuley Engineering

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Description of Company/Facility

Established in 1997 the company operates from a modern 74000 sq ft facility in Ballymoney, N.Ireland. Through continual investment in the latest machinery and processes the company has grown substantially and now employs 96 engineers and operators. McAuley's have an extensive record in servicing customers in both the UK and Ireland. Through investing in technology, we aim to provide quality components combined with excellent lead times.

Expertise/ Capabilities

McAuley Engineering are a provider of Subcontract CNC Machining, Fabrication and Tube Manipulation services. We manufacture precision components for the Transport, Oil and Gas and Power Generation sectors with development of strong relationships in each area.

Standards Adopted/Industry Memberships & Accreditations

McAuleys are accredited to ISO9001, ISO14001 and OHAS180001 standard.



Services Available

- Sub contract precision machining (milling and turning).
- Sub contract precision sheet metal components (punching and folding).
- Machining and forming of components from one off to high batch work including stock call off.
- Technical engineering and support to key customers.
- Vibratory barrel finishing (to remove sharp edges).
- Zinc plating, powder coating and other surface finish treatments are available.
- Sheet Metal
- Tube Bending
- Welding & Assembly
- Machined Components



MMI Engineering

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Description of Company/Facility

MMI Engineering provides technical consulting and engineering services to enable effective risk management. MMI assists clients in the analysis, mitigation and management of risks posed by natural and man-made hazards. Founded in 2001, MMI is a wholly-owned subsidiary of Geosyntec Consultants, a leading US geo-environmental consulting firm. MMI has offices in strategic global locations in the United States of America, United Kingdom, Malaysia and Australia.



Expertise/ Capabilities

MMI's consultants understand how science and engineering should be incorporated into risk management strategies for true risk reduction. The effective management of risk, whether safety, environment or business related requires sound analysis of hazards and their associated consequences.

MMI provides solutions based on the sound application of engineering, science and technology in combination with experience in design, construction, commissioning, operations and project management. Our staff come from a wide range of engineering and scientific disciplines including: mechanical, chemical, structural, civil and petroleum engineers who work alongside physicists, chemists and mathematicians. Our areas of expertise include:

- Safety and Risk Management;
- Major Hazard Modelling and Simulation;
- Major Hazard Engineering for Blast, Fire, Impact and Earthquake;
- Structural Integrity Assurance;
- Fluid System Mechanics & Design;
- Technical Communication.

MMI has a global presence and project portfolio, encompassing:

- Fixed and floating offshore facilities;
- Onshore oil refining and processing;
- Gas processing and distribution;
- LNG storage and terminals;
- Underground gas storage;
- Unconventional Oil & Gas;
- Carbon Capture and Storage (CCS);
- Hydrogen power generation.

NiSoft

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Description of Company/Facility

Based in Belfast with additional offices in Singapore and Denver, NiSoft works efficiently and respectfully in a variety of cultures and has established a global reputation for successfully delivering robust process safety management solutions across the toughest commercial and processing environments. The NiSoftWay is a proven structured approach to system implementation that focuses on the customer's requirements and results in successful, on-budget projects.

Expertise/ Capabilities

With nearly 20 years of experience and 350 client installations worldwide, our team are experts in understanding and translating user operational requirements and workflow into written specifications and tailored software designed to produce exacting electronic safety documents. You can rely on personal support from experienced NiSoft professionals who will understand your site and your needs. Your NiSoft team will be there for you throughout the duration of your project.

Services Available

NiSoft project team work personally with customers to figure and develop an ISSoW solution to mirror your safety rules and standards. As a result customers can confidently provide a safer environment for their team and a more efficient workforce with an eclipse safety management system authentically matched to your operating environment. With their extensive software expertise, project management and experience documenting safety practices, NiSoft is exceedingly capable of deploying the right solution for your site on time and on budget.

NiSoft Products:

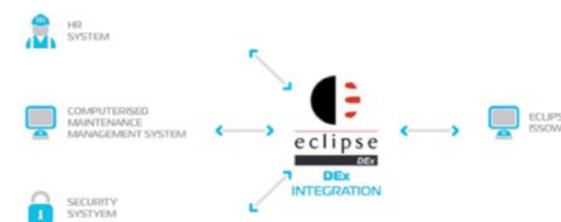
eclipse

The eclipse ISSOW solution provides operations departments with powerful tools for managing permits, risk assessments, certificates, isolations and other safety documents in a 24x7 environment. With its configurable workflow, on screen documents and processes including reporting and archiving, eclipse is easy to use and provides a highly flexible and proven solution to solve productivity, efficiency and compliance challenges within safety document management.



DEx

DEx allows eclipse to interact with different Enterprise Asset Management (EAM), Computerized Maintenance Management Systems (CMMS) systems and HR systems. This lets vital data automatically flow to and from eclipse, maximising the efficiency of your safety processes.



Relinea

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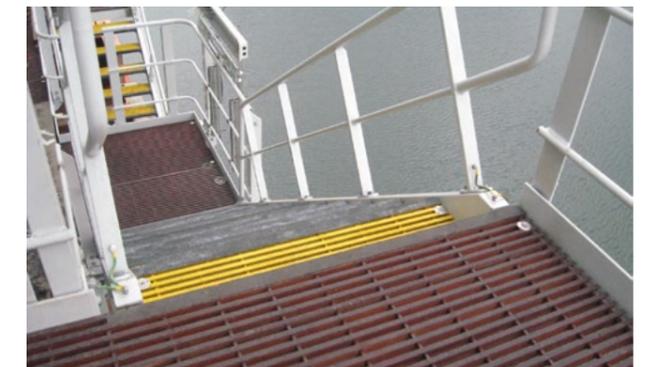
Description of Company/Capabilities

Relinea are manufacturers and suppliers of GRP (glass reinforced plastic) pedestrian access solutions for leading industries including oil & gas, wind energy, marine, electricity and many more. Their aim is to offer an innovative and alternative maintenance free solution to conventional materials such as steel, aluminium and timber.

Expertise/ Capabilities

High anti-slip, maintenance free, and low lifecycle costs are the key benefits of Relinea's advanced GRP composite products. Their GRP floor grating is ideal for anti-slip pedestrian walkways and boat landing platforms. The phenolic resin GRP grating in particular is a dramatic innovation for markets such as the oil and gas industry where fire safety is a major concern; hence the non-flammable nature of the phenolic grating can withstand higher temperatures than standard grating. Relinea are the only company to offer GRP moulded grating that meets the requirements of the NORSOK Impact Drop Test.

Based in Ireland operating out of a new 1000m2 purpose built unit, Relinea are there to help customers through technical issues and provide guidance on the best solution to meet client and customer requirements.



Standards Adopted/Industry membership & Accreditations

In order to meet their own rigorous quality standards, they use only the highest grade materials and latest manufacturing techniques. This means that all Relinea products conform to the ISO 9001 quality system, hold American Bureau Shipping approval, and are made under our Environmental Management System to BS8555.

Services Available

- Open Mesh & Covered Grating
- Stair Tread Covers
- Landing Covers
- Ladders & Handrails
- Platforms
- Structural Profiles
- Fabrication Services

- ✓ Low Lifecycle Costs
- ✓ Maintenance Free
- ✓ Beneficial in Wet or Oily Conditions
- ✓ Impact Resistant
- ✓ Slip Resistant
- ✓ High Load Capacity
- ✓ Fire Resistant



Ridgeway Renewables

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Description of Company/Facility

Ridgeway Renewables' is an innovative company at the forefront of supply to the engineering and renewable energy industries and works in collaboration with a range of manufacturing partnerships internationally to offer experience and expertise to the supply chain.

Expertise/ Capabilities

Ridgeway offers an innovative range of Filter Units has enjoyed a 20+ year heritage in civil engineering, coastal protection and bridge foundation strengthening and protection.

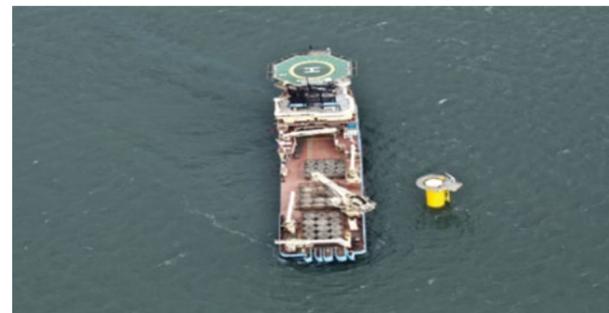
Designed specifically for scour and cable protection, the filter unit is an advanced alternative to rock dumping and concrete mattress systems. Manufactured from recycled synthetic material, its double-netted structure gives it the durability and uniqueness to withstand the harshest marine environments.

The flexible structure makes the filter unit ideal for irregular seabed conditions. In terms of Offshore Wind and Tidal Devices it:

- Protects sub-sea foundations from strong velocities of flow
- Protects and stabilises export cables, cable arrays and pipelines
- Creates new niches by promoting biodiversity
- Has a minimum lifespan of 50 years in saline water

More importantly, it significantly reduces vessel time because:

- It's unique one point lifting system allows each filter unit to be place with pin point accuracy.
- Simple and rapid loading on board
- It takes 10 mins to install a single filter unit on the sea floor



Sea Source

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Description of Company/Facility

Sea Source provides a range of services; they specialise in providing vessels and crew for survey and guard duties to the oil, gas and offshore energy industries. Their members are based in Annalong, Ardglass, Kilkeel and Portavogie, the main fishing harbours along County Down coast in Northern Ireland.

Expertise/ Capabilities

Onshore liaison can be provided for in depth knowledge of fishing activity.

Skippers/ crews are highly experienced in the marine environment.

All vessels and crews are certificated and have good local knowledge.

Sea Source provides a range of services to the Marine and Renewable Sector. Its vessels and crews are highly experienced and trained in the Marine Environment.

Vessels range in size from 10 metres to 24 metres and are presently working on various projects in the Irish Sea. All vessels and crews are fully certified and trained to deal with the Marine Environment with many years of experience and knowledge.

Our vessels are equipped with the latest Electronics and Hydraulics including ARPA Radars, AIS, Satellite Technology and Communications systems.

Services

- Guard Vessels
- Chase Boats
- Grab Samples
- Bird Surveys
- Marine Traffic Observation
- Environmental Impact Assessments
- Trawl Surveys
- Benthic Surveys
- Camera Surveys
- Onshore Fisheries Liaison
- Offshore Fisheries Liaison
- Extensive Fish Mapping



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