The growth of wave, tidal and offshore wind energy represents a tremendous economic opportunity for the UK. In July 2009, the UK government designated the south west as the first Low Carbon Economic Area (LCEA) for Marine Energy. The LCEA designation recognises the region’s great marine energy resources, long history of marine and engineering excellence and its strong research base. The south west also has some fantastic and innovative businesses based in the region that are already making a vital contribution to the marine energy sector.

The region is home to a large number of wave and tidal technology developers, research organisations and consultancy firms. It also has a strong engineering and marine science capability based around its excellent deep-water ports. In the area of offshore operations, south west companies are already providing expertise across the UK and Europe in the deployment and servicing of marine energy and offshore–wind technology.

This guide gives an overview of these companies and highlights the capabilities that the south west of England can offer.
The south west of England has become a centre for wave and tidal device developers. Many of these have strong associations with the region’s universities, while others have been attracted by it’s engineering skills and marine expertise.

The ‘Low Carbon Economic Area’ package included funding for the development of the Wave Hub off the north coast of Cornwall. Due to be installed in 2010, the Wave Hub will provide a demonstration site for pre-commercial testing of wave–energy devices. Two major offshore wind farms have also been proposed in the south west as part of the Round 3 development; a 1.5 GW windfarm in the Bristol Channel and a smaller 0.5 GW windfarm off the south coast of Dorset.

For information on companies go to www.regensw.co.uk/marine
South West England has excellent universities specialising in marine sciences, engineering, and environmental sciences. Plymouth, Exeter, Bristol and Bath universities are all active in marine energy research in collaboration with industry partners.

The Peninsula Research Institute in Marine Renewable Energy (PRIMaRE), a collaboration between the universities of Exeter and Plymouth, has received over £12m to fund a broad range of research in marine energy. PRIMaRE joins an already thriving research community in the region, making the south west a world class centre for marine science and marine–energy research.

**UNIVERSITIES AND OTHER RESEARCH ORGANISATIONS**

Universities and research organisations
- University of Bath
- University of Bristol
- University of the West of England
- Plymouth Marine Science Partnership
- Plymouth Marine Laboratory
- Sir Alastair Hardy Foundation
- Camborne School of Mines
- Centre for Power Transmission and Motion Control, University of Bath
- PRIMaRE – Peninsula Research Institute in Marine Renewable Energy
- University of Exeter
- University of Plymouth
- The Met Office, Exeter
- The UK Hydrographic Office, Somerset

For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)
Alongside the universities and technology developers, the south west hosts a range of marine energy, environmental, and specialist consultancy firms. The region also has a number of professional service companies that provide legal, business and financial support to the renewables sector.

**CONSULTANCIES – ENERGY, ENVIRONMENTAL, FINANCIAL AND LEGAL**

**Multidisciplinary consultancies**
- Arup, Bristol
- Garrad Hassan & Partners Ltd, Bristol
- Halcrow Group Ltd, Exeter
- Royal Haskoning, Exeter
- Wardell Armstrong International, Cornwall
- Goldring Yates, Cornwall
- BVG Associates, Swindon

**Environmental consultancies**
- Aquatonics Ltd, Devon
- Coastal Research, Devon
- Coastal Science Ltd, Devon
- Coastline Surveys Ltd, Cornwall
- Geoscience Ltd, Cornwall
- Marine Ecological Surveys, Somerset
- Risk Mitigation Geoservices Ltd, Somerset
- Tamar Consulting, Cornwall
- Worley Parsons, Bristol

**Financial**
- Bishop Fleming, Bristol
- Ernst & Young, Exeter
- Pure Energy Professionals, Cornwall
- Triodos Bank, Bristol

**Legal**
- Ashfords Solicitors, Exeter
- Bond Pearce, Plymouth
- Davies Johnson & Co. Plymouth
- Lester Aldridge, Bournemouth
- Osborne Clarke, Bristol
- Foot Anstey, Exeter
- Tozers Lp, Exeter

**Off-shore & Renewable Energy Specialists**
- ADPS Ltd, Plymouth
- Mojo Maritime, Falmouth
- MECAL Ltd, Devon
- Boston Marine Consultancy Ltd, Exeter
- IT Power Ltd, Bristol
- Marine Energy Matters, Devon
- Project Management Support Services, Bath
- Zero Carbon Marine, Devon
- Poyry, Plymouth
- Seawind UK, Plymouth

**Other**
- Sinclair Consulting (PR), Devon

For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)
Marine engineering is concentrated around South West England’s hub ports of Plymouth, Falmouth, Bristol and Portland. Bristol has also become a centre for high-tech industries, especially related to the aeronautical industry. Throughout the region there is also a wide variety of fabrication, precision, electrical and mechanical engineering companies.

From super yachts to nuclear submarines the south west boasts world class marine engineering capability, and many of these companies are now diversifying into the renewable energy sector.

### Engineering, Manufacturing and Engineering Consultancies

<table>
<thead>
<tr>
<th>Large scale and high tech</th>
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<tbody>
<tr>
<td>• A &amp; P Falmouth Ltd, Falmouth</td>
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<tr>
<td>• Babcock Marine Ltd, Plymouth/Appledore</td>
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<td>• Dyer &amp; Butler, Exeter</td>
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<td>• Underhill Engineering Ltd, Plymouth</td>
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<th>Marine engineering</th>
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<td>• Avonmouth Ship Repairers Ltd, Bristol</td>
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<td>• John Grimes Partnership Ltd, Devon</td>
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<td>• Penzance Dry Dock &amp; Eng., Cornwall</td>
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<td>• Ocean Fabrication, Truro, Cornwall</td>
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<td>• E-Tech Group Ltd, Plymouth</td>
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<td>• Powermann Ltd, Dorset</td>
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<td>• Powersystems UK Ltd, Bristol</td>
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<td>• J&amp;S Marine, Barnstaple</td>
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<th>General and precision engineers</th>
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<td>• Bassett Engineering Ltd, Cornwall</td>
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<td>• Buro Happold Engineering, Somerset</td>
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<td>• Calidus Engineering Ltd, Falmouth</td>
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<td>• I Knibb and Son Engineers Ltd, Falmouth</td>
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<td>• John Reid &amp; Sons, Dorset</td>
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<td>• Jordan Manufacturing Ltd, Bristol</td>
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<td>• Laser Industries, Cornwall</td>
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<td>• Link Fabrication &amp; Machining, Dorset</td>
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<td>• Lowley Engineering, Cornwall</td>
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<td>• Manuflex Engineering Ltd, Somerset</td>
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<td>• Scana UK Ltd, Bristol</td>
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<td>• UK Precision Ltd, Somerset</td>
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<td>• WES Engineering Solutions, Cornwall</td>
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<td>• Fine Tubes, Plymouth</td>
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<td>• GMD Eurotool Ltd, Plymouth</td>
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<th>Consulting engineers</th>
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<td>• BMT Marine Projects Ltd, Somerset</td>
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<td>• Frazer Nash Consultancy, Bristol</td>
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<td>• Hoare Lea Con. Engineers, Plymouth</td>
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<td>• Nomenca, Cornwall</td>
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<td>• Scott Wilson, Bristol</td>
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<th>Specialist engineering</th>
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<tr>
<td>• Avon Fabrications, Wiltshire</td>
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<td>• CSIP Ltd, Dorset</td>
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<td>• Pressure Control Engineering Ltd, Dorset</td>
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<td>• Tecker Ltd, Falmouth</td>
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For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)
Crane barge transporting tripod base for Tidal Generation Ltd.

Data Collection – Plymouth Marine Laboratory.

Marine Current Turbine’s SeaGen Turbine.

For information on companies go to www.regensw.co.uk/marine
The key components to support the marine energy industry are all found in the region, including: hydraulics and pump manufacturers, electrical equipment and connectors, composites and plastics. South West England also has a broad base of companies providing specialist marine equipment such as mooring, navigation, marine electronics, surveying and monitoring equipment. Several of these world-class companies are already working in the marine energy sector, while others are concentrated in the aeronautical, defence and oil and gas industries. All are now in a position to support the growth of renewable energy and are ready to bring their expertise and products to help accelerate marine energy development.

For information on companies go to www.regensw.co.uk/marine
Selection of component and technology suppliers

- AP Valves, Cornwall – Diving Equipment
- Apex Fluid Engineering Ltd, Bristol – Centrifugal Pumps
- B & C Reconditioning Gears Ltd, Wiltshire – Gears
- Beldam Burgmann, Falmouth – Seals and Gaskets
- Borg Transmissions, Dorset – Gears and Bearings
- Cornish Concrete Products Ltd, Cornwall – Concrete
- Docking Solutions Ltd, Devon – Pontoons and Docks
- Fluid Equipment International Ltd, Dorset – Pumps
- Hamworthy Plc, Dorset - Marine Fluid Handling
- Jetfloat UK, Dorset – Pontoons and Docks
- Northavon Pumps & Control, Bristol – Pumps
- Phoenix Bearings, Gloucs. – Bearings
- Pump International Ltd, Cornwall – Pumps
- Pump Supplies Ltd, Cornwall – Pump Supply
- Ram Gasket Solutions Ltd, Cornwall – Seals and Gaskets
- Rubicon Marine Ltd, Devon – Marine Rubber Applications
- Safi Ltd, Dorset – Valves and Actuators
- Superior Seals Ltd, Dorset – Seals and mouldings
- Versadock UK, Cornwall – Pontoons and Docks
- Watson Marlow Ltd, Falmouth – Peristaltic Pumps

Sub-sea electrical connector J&S Marine was recently awarded the contract to provide sub-sea electrical connectors for the European Marine Energy Centre (EMEC).

For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)
South West England has a long seafaring history and, as well as providing home ports for the Royal Navy, it was also the embarkation point for the earliest transatlantic cables. The region therefore has an abundance of offshore and subsea expertise, and this is reflected in the large number of companies working in this area.

Falmouth has become a hub for marine renewable operations with leading companies such as Fugro Seacore, Mojo Maritime, Insight Marine, LDD and Falmouth Divers. Mojo Maritime has worked on the deployment of a number of wave and tidal devices including the Seagen turbine for Marine Current Turbines at Strangford Lough and the Ocean Power Technologies ‘Power Buoy’ at Santona off the coast of northern Spain.

Bristol, Portland and Plymouth have also become recognised as centres of excellence for marine operations, vessel charter, marine engineering, diving support services and sub-sea surveys.

### OFFSHORE AND SUB-SEA INSTALLATION AND OPERATIONS

**Marine operations and management**
- Global Marine Systems Ltd, Portland
- Jenkins Marine Ltd, Poole
- Mojo Maritime Ltd, Falmouth
- Fugro Seacore Ltd, Falmouth
- Oceaneering International, Devon
- Offshore Marine Management, Bristol
- Seawind Group, Plymouth

**Vessels, workboats and barges**
- Bay Marine, Falmouth
- Challenger Marine, Falmouth
- FD Marine Ltd, Falmouth
- JB Marine Services, Newquay
- Offshore Marine Solutions Ltd, Redruth
- Penzance Scuba, Penzance
- Portland Oceaneering Ltd, Portland
- Sea Wide Services Ltd, Falmouth
- WGP Group, Bude Cornwall
- Wind Wave Workboats Ltd, Penzance
- Howard Marine, Plymouth

**Drilling and piling**
- Fugro Seacore Ltd, Falmouth

**Sub-sea operations**
- Dive Technologies, Portland
- Falmouth Divers Ltd, Falmouth
- Fathoms Ltd, Somerset
- Insight Marine Projects Ltd, Cornwall
- Quest Underwater Services Ltd, Dorset
- South West Surveys Ltd, Cornwall
- Sub Marine Services Ltd, Falmouth
- UMC International Plc, Devon
- Westland Geoprojects Ltd, Cornwall
- WGP Group, Cornwall
- Knight Search & Recovery Services

**Mooring and navigation buoys**
- Manuplas Ltd, Plymouth
- Norfloat International Ltd, Devon
- Hippo Marine Ltd, Saltash
- Lumen Seamarks Ltd, Cornwall

**Other Marine**
- Maritime Training Plymouth Ltd, Plymouth
- Falmouth Oil Services Ltd, Falmouth

For information on companies go to www.regensw.co.uk/marine
Pile driving and drilling operations – Large Diameter Drilling (LDD).

The deployment of Ocean Power Technologies 'Power Buoy' at Santona in northern Spain involved a number of south west companies including Mojo Maritime and Insight Marine.

For information on companies go to www.regensw.co.uk/marine
PORTS AND CONSTRUCTION FACILITIES

The south west is fortunate in having more than 70 ports with ready – access to deep water. Many of these are comparatively small, but there are a significant number of mid-sized commercial ports and a number of major international ports.

**BRISTOL**

As well as being a centre for advanced engineering and aerospace, Bristol has one of the world’s most technically advanced ports. Possessing a deep-water channel, the port is a gateway container port for the UK and a transhipment point for the Atlantic seaboard and Europe. With its excellent rail and road links, the port plans to expand its facilities with a new deep–sea container terminal in the Bristol Channel.

**FALMOUTH**

Falmouth is reputed to be the third largest natural harbour in the world. This deep water port is ideally located to access the wave–energy potential of the western approaches. It is also the home port for a number of companies engaged in offshore and subsea operations.

**PLYMOUTH**

Plymouth is a centre for naval engineering, much of which is centered around the Devonport Royal Dockyard.

Significant opportunities for industrial development are likely to arise as a result of the MoD rationalising its Devonport estate, with up to 80 hectares to be released in the near future. Plymouth provides an ideal location for marine–energy–related businesses, while the recently announced proposals to create a marine science and technology park in Plymouth will enhance its position as a leading location for developing the marine renewable energy sector.

**PORTLAND**

On the south coast, Portland is the UK’s newest commercial port but with more than one hundred years of history as a naval dockyard. The port lies within easy reach of Round 3 offshore–wind sites and the tidal resources off Portland Bill and the English Channel. With the recent release of up to 13 hectares of development land, it has significant potential for marine energy use.

For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)

Dry dock engineering – A&P Falmouth.
OTHER SELECTED PORTS AND CONSTRUCTION FACILITIES WITH POTENTIAL TO SUPPORT OFFSHORE WIND AND MARINE ENERGY DEPLOYMENT

- Appledore, North Devon
- Dartmouth, South Devon
- Fowey, Cornwall
- Hayle, Cornwall
- Ilfracombe, North Devon
- Par, Cornwall
- Padstow, Cornwall
- Pendennis Shipyard, Falmouth
- Penzance & Penzance Dry Dock, Cornwall
- Poole, Dorset
- Portreath, Cornwall
- Teignmouth, South Devon
- Truro, Cornwall
- Weymouth, Dorset

For information on companies go to [www.regensw.co.uk/marine](http://www.regensw.co.uk/marine)
Regen SW is the sustainable energy agency for the south west of England. Established in 2003, Regen SW continues to help transition the south west towards a low–carbon–based economy by supporting the deployment of renewable and energy efficiency technologies in the region, and by supporting businesses operating in the sustainable energy sector.

In the marine and offshore–wind–energy sectors Regen SW has particular responsibility to help develop the supply–chain capability in the region. Regen SW works closely in partnership with regional and national organisations and is engaged in fostering collaboration with other regions in the UK and overseas.

Regen SW is core funded by the South West Regional Development Agency.

For information on companies go to www.regensw.co.uk/marine
The Marine Energy Company Directory is managed online by Regen SW.

The directory currently lists over 250 companies covering a broad range of products and services related to the marine and offshore wind energy sectors. Membership of the directory is free, subject to the company having a base or regional operations in the South West of England.

For further details of the companies listed in this guide and for up–to–date information, visit the Regen SW South West Marine Energy Company Directory at:

www.regensw.co.uk/marine

If you are a business that would like to join the directory, or require help in sourcing products or services within the marine–energy supply chain, please contact:

Johnny Gowdy
Head of business support
Regen SW

e-mail: jgowdy@regensw.co.uk

mobile: 07976 284 707

Wind Farm Deployment – Falmouth Divers.

For information on companies go to www.regensw.co.uk/marine
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Our thanks to the following companies for the use of imagery:
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- Tidal Generation Ltd.
- A&P Falmouth
- Falmouth Divers
- Charlie Chambers www.charliechambers.co.uk
- J&S Marine
- Large Diameter Drilling
- Falmouth Harbour Commissioners
- Dartmouth Wave Energy
- PRIMaRE

For contact information go to www.regensw.co.uk/marine

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