



Wind

The current and proposed installation of offshore wind farms in UK and European waters, specifically those in the North Sea and off the Sussex and Isle of Wight coasts, creates substantial opportunities for wind energy supply chain companies located in the South East of England.

There are also good opportunities for offshore wind energy companies not located in the region to secure significant manufacturing at coastal facilities. The Solent area in particular offers locally based wind energy supply chain companies easy access to Round 3 zones in Hastings Bank and West Wight.

On-shore wind energy is feasible over the whole region, particularly at coastal sites. There is also potential for both wind farms and the installation of smaller capacity generation on industrial sites and business parks.

Wave / tidal

With some of the best tidal, wave and estuary resources in the world, the UK is well placed in the generation of marine energy. The country also has the opportunity to be a world leader in the production of marine renewable energy systems.

Many of the leading marine energy solutions in the world today are produced in the UK. The first full scale wave energy device was developed by the University of Southampton's Sustainable Energy Research Group in conjunction with the National Oceanographic Centre in Southampton.

Much of the South East coast has the potential for marine renewable installation, notably for tidal devices off the Isle of Wight and the Channel Islands. Small scale tidal stream devices which could be installed in shallow water would service compact waterside residential and industrial development in the Solent area.

The Solent is an optimum location for marine energy companies. To support this, studies have been put forward to establish a Solent Ocean Energy Centre for the evaluation and research into marine energy technologies on the Isle of Wight. In addition, there is an opportunity to further develop the regional supply chain, in partnership with device manufacturers, through the establishment of a regional hub, or marine technology park.

Next steps

This booklet provides a summary of what is on offer within the region. For further information on the opportunities listed within and more, for a copy of the full prospectus, or to find out how SEEDA can help, please contact Sue Mills, Sectors and Clusters Development Team on +44 (0) 1483 470195 or email suemills@seeda.co.uk

Key facts about the South East

- Population of 8.2m
- 4.3m highly skilled workforce
- Good port infrastructure including Portsmouth, Southampton and Dover
- £18.5bn manufacturing output, the largest in the UK
- Excellent road and rail links to central London and Heathrow, Gatwick and Southampton international airports
- High-tech, research intensive economy supported by 25 universities

The South East England Development Agency (SEEDA) is responsible for the sustainable economic development and prosperity of the South East of England. We work at a local, national and international level to attract inward investment, to help South East businesses reach their full potential and to win practical support from a range of partners.

Photo credits: SEEDA photo library / Green Marine / GKN Aerospace

SEEDA Headquarters
Cross Lanes, Guildford, Surrey, GU1 1YA
T: +44 (0)1483 484200 E: seeda@seeda.co.uk



SEEDA also has offices in Chatham, Hastings and Brussels

Opportunities for composite manufacturing in the South East of England

Aerospace

The South East of England is home to some of the most successful and innovative aerospace and defence companies in the world. Together they generate an output of over £5bn (GVA) for the region. Over one fifth of all UK companies involved in the manufacture of aircraft and spacecraft are based in the South East. A significant cluster of these are located in the Solent area of Portsmouth, Southampton and the Isle of Wight.

Driven by high fuel prices and tighter emission standards, demands for aerospace composites are increasing with current content levels of 20 - 30 per cent anticipated to rise to 50 - 70 per cent by weight by 2017.

As the use of composite materials grows in the civil airline and defence industries, there is significant potential for growth and exploitation of the region's strengths in this field. Existing and planned aerospace partnerships will further develop the composite capability in the region with training courses designed to support the anticipated expansion of the cluster in the Solent.

The GKN Composite Research Centre is a £5.5m facility located on the Isle of Wight. The centre focuses on the development of technology for the automated manufacture of complex composite parts for high performance sub-assemblies.

Marine

The South East's marine economy is worth £14.05bn. With 22.8 per cent of the UK's industry in the South East, and more than 140 boat and ship companies based in the Solent area, it makes it the most economically important marine region in the UK.

The Solent area cluster provides manufacturing capabilities for composite structures, vessels and component parts and includes composite materials such as glass reinforced plastic, carbon fibre and Kevlar.

Composite materials are primarily used in military ship building. However, Faraday Advance, an organisation hosted by the Department of Materials at Oxford University, is exploring the potential of increased use of composites in cruise ships and commercial vessels. The University also supports materials research for the aerospace, automotive, marine and rail sectors.

The Solent area provides a base for many nationally significant marine-related research centres which provide a focal point for innovation in technology and add value to the growth potential of existing and emerging marine industries in the region.





The Solent

The Solent is a global centre of excellence in the marine and composite technology industries. There are a number of existing and new business opportunities for companies in these sectors. SEEDA can help potential inward investors to locate to the Solent area to access these opportunities. The following information provides brief examples of such opportunities.

Further detailed information can be found in a full prospectus. For a copy, please contact the Sectors and Clusters Development Team at SEEDA. (Contact information overleaf)

Nearly 1,000 international businesses have located in the Solent to access the area's excellent connectivity, quality facilities and skilled workforce.

- Key strengths in mechanical, electrical and electronic engineering
- Highly qualified workforce, with nearly a third at NVQ Level 4 (degree standard or equivalent) and above
- Number of apprenticeships are increasing to meet growing demand for skilled labour



Southampton: Key sites & premises

1. Port of Southampton

- Major deep water port
- Sites with quayside access
- Dedicated rail and road links
- Excellent access to proposed offshore wind sites

2. Woolston

- 12 hectares (ha) mixed-use development
- 4ha for marine related businesses with ancillary facilities
- Waterfront location with deep water access and berthing

3. Marchwood Marine Park

- 2.43ha land for development
- Buildings up to 8,155m²
- Direct access to Southampton Water and River Test with two commercial slipways
- Four miles south of the M27 and M271 motorways

4. Hythe Marine Park

- 4.9ha former military site with 22,000m² buildings
- Unique large yacht facility
- Large hoist and working quay for vessels up to 75m



Marchwood Marine Park



Portsmouth: Key sites & premises

1. Trafalgar Wharf, Portchester

- 46,500m² former shipyard premises
- Range of offices, storage, manufacturing, maintenance and repair workshops for marine and industrial businesses
- Portsmouth Harbour opposite Port Solent, five minutes from the M27
- 850 ton ship lift, three slipways and wet dock

2. Tipner

- 22ha mixed-use redevelopment opportunity at Portsmouth City gateway to include; housing, headquarters offices and manufacturing facilities
- New junction on the M275 motorway

3. Daedalus, Lee-on-the-Solent

- 82.4ha mixed-use development opportunity
- Former military site suitable for aviation and marine related businesses
- New build options
- Range of existing buildings

4. Voyager Park

- Production and distribution facilities
- Two miles from the M27 motorway with easy access along A27

5. Harts Farm Way, Havant

- 4.6ha site with outline planning consent
- 16,000m² space for site close to A3 and M27 motorway



Trafalgar Wharf, Portchester



Isle of Wight: Key sites & premises

1. Venture Quays, East Cowes

- Offices, technology and manufacturing space with flexible occupational terms
- Water access, 75 tonne hoist dock and 60m berth
- Close to mixed-use town centre extension

2. Stag Lane, Newport

- 8ha brownfield development site opportunity
- Close to River Medina with opportunity for access
- Suitable for the renewables and marine sectors

3. Island Technology Park

- 4ha greenfield development site
- Office, research and development and production facilities

4. St Cross Business Park, Newport

- High spec office and industrial space on outskirts of Newport
- Units available for light industrial, manufacturing and warehousing



Island Technology Park

