

## Furness is part of “Britain’s Energy Coast” 2008-9 Task Force Briefing

### Substantial Energy Resources: Sustaining 2,800 - 3,000 jobs in Furness:

- **Gas – 200 existing jobs plus supply chain.** Three onshore gas processing terminals with processing capacity for 15% of UK gas supplies from East Irish Sea. Currently handle Morecambe Bay/River fields reserves. Gas fired 226MW Roosecote Power Station delivers 12% of NW’s electricity.
- **£900m addition is planned at Rampside South gas terminal with two new pipelines to facilitate offshore gas storage. Delivery will occur between 2008 - 2011 by Stag Energy** under the £500m Gateway Project. **Centrica Energy** will also invest £200m for gas storage in their Bains Field to ensure UK’s security of energy supply as will **Meridian** £200m for LNG import. **2007, 24<sup>th</sup> Round of 16 East Irish Sea offshore gas and oil exploration licences** are to be drilled. Centrica embarking on £7m geophysical survey. In May 2008, 25<sup>th</sup> Round bids were received by BERR.
- **Barrow Offshore (100MW) wind farm -14 jobs at Vestas for Dong rising to 25** was UK’s 1<sup>st</sup>. **7 Onshore wind farms** at Harlock, Askam, Haverigg, Gawthwaite, Millom TESCO and BAE SYSTEMS. Dong/Vestas offshore/onshore wind farm support base (7000ft<sup>2</sup>) is located at the port of Barrow.
- **2 very large, 500MW, offshore wind farms (planned) 2008-12 by Dong Energy and Scottish Power** 12 miles off Barrow. Third round licencing underway.
- **Civil Defence Nuclear Reactor systems** design, development, integration, test, commissioning through BAESYSTEMS can be applied to civil power generators. The opportunity is nuclear modules. Partnerships with Amec NNC/Westinghouse.
- **Nuclear irradiated fuel transport.** PNTL/James Fisher sustains 125 British seagoing staff. **Nuclear decommissioning** James Fisher Nuclear Ltd employ 73.
- **Between 300 and 500 people from Furness commute daily to work at Sellafield**
- **Hydro-electric schemes** at Coniston/Backbarrow.
- **Core indigenous capacity: 92 energy market supply chain companies In Furness employ 2,000 + people including:-**

Acrastyle	-	electrical power distribution	-	140 people
Agrilek	-	wind farm systems integration	-	150 people
Expro	-	subsea connectors	-	280 people
Diamould	-	subsea connectors	-	110 people
Centrica	-	energy provider	-	200 people

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### **The Furness Energy Hub part of Britain’s Energy coast**

"Nowhere within the UK is there a more strategically important area than the West Coast of England, and in particular for energy generation, the Furness Peninsula and offshore west of Barrow -in-Furness. **Barrow has the largest and most complex gas processing facility in the UK** with capacity to harvest any natural gas yet undiscovered in and around the East Irish Sea (24<sup>th</sup>/25<sup>th</sup> Round licences). LNG import and offshore gas storage projects could be developed. Combined with fossil fuel, **the coastline is known to be highly suitable for capturing wind energy from offshore turbines and tidal conditions highly suitable to harness power from tide and wave technology.**

**A huge body of expertise is available in Furness** to support the increasing diverse energy sector. **It is renowned for producing the high calibre of engineering skills. Furness Enterprise, in collaboration with Furness College, has a proven track record of training and placing engineering skills within the existing industries.**

*Source* Furness Enterprise and Centrica Energy communication input to DBERR Energy Review, October 2007

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### The Furness Energy Hub: An Energy Action Plan for Furness guides the activities of Furness Enterprise

<p><b><u>Marketing Themes:</u></b></p>	<p>“<b>Energy Hub of the North West</b>” focus on Furness allied to Britain’s Energy Coast, including promotion of Rampside Energy Park both to attract energy using industry and landfalls. Encouraging <b>exploitation of the “total energy mix”</b> in order to create/protect jobs, make most of investment opportunities and exploit exports.</p>
<p><b><u>Natural Gas and Offshore Oil:</u></b></p>	<p><b>Maximise potential of Rampside Barrow Onshore Terminals</b> as hub for ING imports, landfalls for East Irish Sea gas fields and gas storage and 24<sup>th</sup>/25<sup>th</sup> Round licenced blocks. <b>Support to companies involved in exploration and development of worldwide or East Irish Sea resources.</b> Supporting Centrica’s development of multi-user shore-based support systems in East Irish Sea. Retain and develop core of firms we already have here.</p>
<p><b><u>Nuclear:</u></b></p>	<ul style="list-style-type: none"> <li>• <b>Focus on retention of Barrow based submarine power plant assembly &amp; manufacturing technology skill base.</b></li> <li>• Maximising decommissioning opportunities by helping firms gear up as AMEC delivers Sellafield contract – NDA opportunity.</li> <li>• Exploit potential of civil nuclear market eg: modules.</li> </ul>
<p><b><u>Electricity:</u></b></p>	<p>Support British Gas Roosecote Power Station expansion, marketing Roosecote 132kv grid substation for flexible use e.g. wind power generation and identify CHP opportunities. Ensure utilities/developers service / provide industrial sites with right electricity supplies to secure new investment. Support supply chain firms eg: Agrilek, Acrastyle. Encourage mix of nuclear, gas, renewables based energy generation. Focus on base load and supply chain opportunities.</p>
<p><b><u>Renewables:</u></b></p>	<p><b>Offshore wind developments:</b> attraction of job creating activity through:</p> <ul style="list-style-type: none"> <li>• Assembly /support base (short term).</li> <li>• Manufacturing facilities.</li> <li>• Supplier links, e.g. BAE SYSTEMS Submarines, Genesys.</li> <li>• Through life maintenance, building on logistics expertise of firms like James Fisher and Centrica.</li> </ul> <p><b>MBT Technology onshore wind developments:</b> assist ABP/ Baywind / Centrica /others to identify and realise inshore/onshore site opportunities <b>Tidal or wave</b> – pursue as long term possibility</p> <ul style="list-style-type: none"> <li>• <b>Support Bay Bridge concept</b></li> </ul> <p>Bay Bridge longer term fuel cells and photovoltaics are lower priority. <b>Pyrolysis - promote as energy from waste option</b> – issue is funding to develop pilot plant scale operations as solution to area’s waste disposal needs.</p>
<p><b><u>Supplier Opportunities across all segments:</u></b></p>	<p><b>Continue to attract in new firms and support Furness companies operating in supply chains especially electronics, system integration and subsea oil and gas market segments</b> to develop opportunities, maximising access to “money and markets”. <b>Help local firms assess renewables opportunities</b>, including collaboration by engineering companies and working with Renewables UK and Envirolink NW to raise awareness of market.</p>
<p><b><u>Hydropower:</u></b></p>	<ul style="list-style-type: none"> <li>• Gilbert Gilkes - linkup with opportunities in ship construction.</li> <li>• Identifying new sites or repowering existing sites opportunities.</li> </ul>
<p><b><u>Across all segments promote exports/develop skills base:</u></b></p>	<p>Assisting al Furness energy based companies to develop key overseas markets – meet UKTI every two months. Help firms enhance skills/attract, retain skills.</p>