



MAINSTREAM
RENEWABLE
POWER



**THE PEOPLE
TO DELIVER
OFFSHORE WIND**

ABOUT US

Mainstream Renewable Power is a renewable energy developer with over 100 experienced employees across eight countries and four continents. We are currently developing 5.5GW of offshore wind energy in Europe. Our offshore business model entails getting a licence to develop an area of sea and obtaining planning permission to put a wind farm there. In parallel with this, we negotiate all the major construction and services contracts so that the project is fully designed, fully engineered and all the key components are secured. At this stage we sell the project and whoever buys it is ready to reach financial close and build the project immediately.

To date we have raised €153 million in equity and mezzanine finance, including a €20 million equity investment from Barclays Capital. In September 2010, we assembled a best-in-class Offshore Advisory Committee to support the growth of our international offshore activities.

HORNSEA – 4,000MW

In January 2010, SMart Wind, a 50/50 joint venture between Mainstream Renewable Power and Siemens Project Ventures was awarded a contract to develop 4,000MW of wind farms in the Hornsea Zone (Zone 4) by 2020 as part of The Crown Estate's Round 3 offshore wind farm programme.

About the SMart Wind consortium:

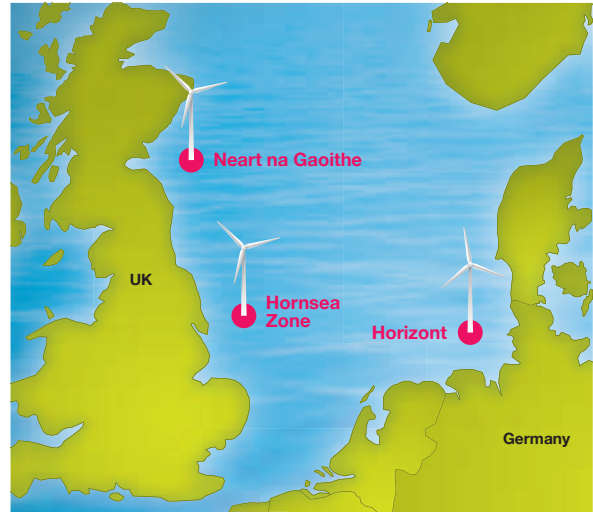
- **Approach:** SMart Wind operates a vertically-integrated, modular approach which considers impacts and delivers solutions at a zonal and project level; an approach which manages the supply chain to deliver low-cost power to the consumer.
- **Strategic Alliances:** SMart Wind works in partnership and has key relationships with leading supply chain companies including Siemens Wind Power and Hochtief, the 4th largest construction company in the world.
- **Experience:** SMart Wind has considerable experience in the development, construction and operations and maintenance of large-scale renewable energy projects and other infrastructure projects.
- **Maximising UK and Regional Opportunities:** SMart Wind believes that all development work must be local. SMart Wind will work to foster innovation, skills and training in collaboration with organisations including RenewableUK, National Skills Academy for Power and the Ambassadors' Apprenticeship Network.
- **Delivery:** SMart Wind will deliver from environment and consenting through to ready to build, i.e. securing key components in the supply chain, undertaking construction works and design and implementation of efficient operations strategies. SMart Wind is committed and able to deliver at scale, and with pace.
- **Environmental Excellence:** SMart Wind is committed to minimise the human, biological and physical environmental impacts of the proposed offshore development including any onshore associate works.

For more information on SMart Wind, visit www.smartwind.co.uk

HORIZONT – 1,000MW

The German government has ambitious targets for renewable energy, with a projected offshore output of around 25GW by 2030. Mainstream's Horizont projects will contribute towards this target and play a vital part in Mainstream's planned offshore interconnection between the UK and Germany.

The Horizont projects (Horizont I, II & III) are in the German exclusive economic zone of the North Sea, approximately 140km from shore and have a potential capacity of 1,000MW.



Mainstream has undertaken all necessary environmental surveys and geophysical and geotechnical investigations and is aiming for receiving consent by the beginning of 2011. Mainstream is committed to delivering Horizont by 2015.

For more information contact Tilman Schwencke at Tilman.Schwencke@Mainstreamrp.com

NEART NA GAOITHE – 420MW

Neart na Gaoithe ('Strength of the Wind') will be an offshore wind farm covering an area of approximately 100km², located in the outer Forth Estuary, 15km off the Scottish east coast near Fife. Mainstream was awarded the site in February 2009 by The Crown Estate as part of a competitive bidding process.

Mainstream has commenced the environmental assessment and technical design processes, completed key seabed and met ocean surveys and secured a firm grid connection agreement to support the project's targeted construction start date in 2014.

The project has the potential to generate up to 420MW of renewable energy, enough power to supply over 300,000 Scottish homes – more than the whole of Edinburgh. It will offset over 400,000 tonnes of CO₂ emissions each year*, as well as make a significant contribution towards the delivery of the UK and European renewable energy targets.

Mainstream's aim is to develop an environmentally and socially responsible project that is viable to construct and operate. The Neart na Gaoithe site was chosen because it combines technical, economic and environmental deliverability.

For more information, visit www.neartnagaoithe.com.

*Source RenewableUK

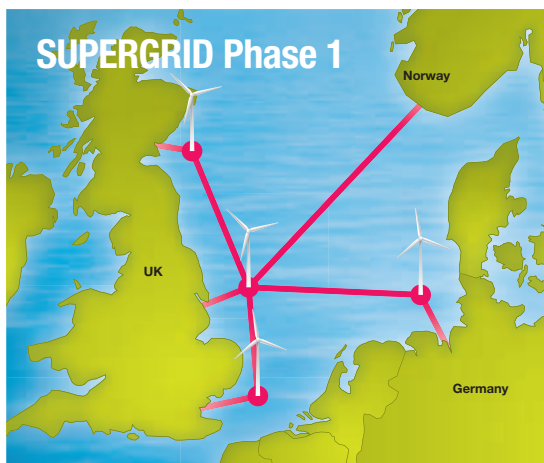
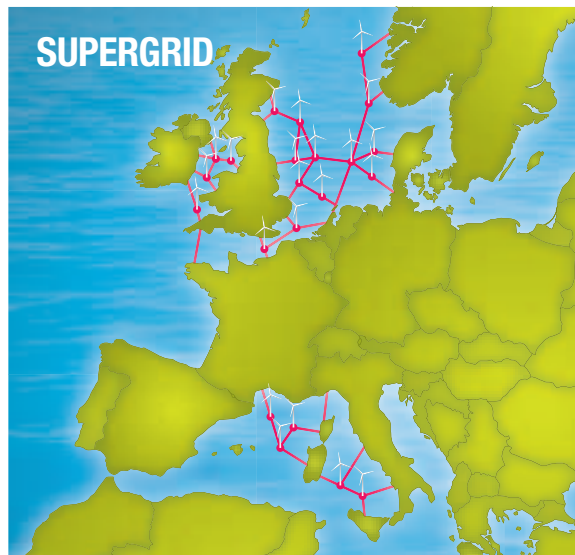
DELIVERING THE BIGGER PICTURE

PAN-EUROPEAN SUPERGRID

To make Europe sustainably energy independent will require a renewable generation portfolio built where resources are optimal and not constrained. Much of this portfolio will be fuelled by wind and will be developed offshore.

To deliver this energy to European consumers will require the development of a high capacity transmission system – the supergrid, capable of transmitting the power to Europe's load centres.

The supergrid concept is based on a high voltage direct current (HVDC) network connecting offshore and onshore SuperNodes which collect the renewable energy and deliver it to the existing high voltage grid at the load centres.



The supergrid could be built using existing technology but we believe that its development will drive technical innovation in transmission and related technologies.

Mainstream intends to lead the development of the supergrid by building the first SuperNode and linking offshore wind generators in the North Sea.

The supergrid will not only provide access to sustainable energy resources, but also allow trans-national competition in supply.

Offshore wind and supergrid developments will not only help drive Europe towards a sustainable energy independent future, but also provide new employment opportunities, infrastructure investment and revitalisation of Europe's ship building and engineering research sectors.

In March 2010, Mainstream announced its involvement in the not-for-profit organisation, Friends of the Supergrid. The FOSG is a group of ten global companies and has been set up to progress policy towards the construction of a pan-European Offshore Supergrid. Through the combination of their respective areas of expertise, the FOSG members have unique insight into the policies needed to create the Supergrid and have the capability to deliver it in practice.

The FOSG is the only representative body that combines companies in sectors that will deliver the High Voltage Direct Current (HVDC) infrastructure and related technology, together with companies that will develop, install, own and operate that infrastructure. It brings together the organisations that will design the physical equipment, with those who will build the structures at sea.

For more information visit, www.friendsofthesupergrid.eu

DEVELOPING THE INDUSTRY

The Crown Estate announcements on 8th January 2010 regarding the programme for delivering offshore projects in the UK represents considerable economic opportunities both for the UK, on both a national and regional basis.

- 1. Localisation:** Development work must be local and, by working in partnership with local communities, consultants, utilities, contractors and suppliers, we will deliver the best renewable power plant for the UK. A local presence is fundamental, and local people with the necessary knowledge are vital.
- 2. Industry and port redevelopment:** Proximity to significant estuaries and local port infrastructure is a key benefit for delivery. Regional estuaries contain several ports that could not only be used for construction and long-term operation & maintenance, but could form the cornerstone of significant UK manufacturing export-clusters.
- 3. Supercluster:** Activity should be focused on developing manufacturing SuperClusters, consisting of material and component suppliers, with deep water port access, as well as universities and research institutions with tailored R&D and education. Within the wind industry, examples of such clusters already exist in northern Germany, Denmark and Spain. To maximise the potential of the offshore wind industry to the UK it is essential that at least one cluster is established on the east coast of the UK.
- 4. Manufacturing:** Numerous local manufacturing and service businesses have the potential to become major suppliers to the offshore wind industry.
- 5. Research collaboration opportunities:** Between regional academic institutes and supply chain companies on technology development, demonstration and deployment.

DELIVERING THE HUMAN CAPITAL

Skilled human resources are the key to the offshore industry. The Carbon Trust recently estimated some 70,000 jobs will be required by 2020. But is it not just the size of the workforce. There is a demonstrated and acute skills gap that must be filled to secure the future not just of operational wind farms – but of the industry as a whole.

- **Training and skills development opportunities:** Ranging from early sector attraction at school-age, through to advanced technician training for the engineering roles required within the sector supply chain.
- **Initiatives:** Continue to grow through collaboration with relevant organisations including RenewableUK (formerly BWEA), European Wind Energy Association, National Skills Academy for Power and the National Apprenticeships Network, to produce graduate- technicians and apprentices in engineering and marine technologies who are equipped to construct and operate offshore wind farms.

One such training initiative was the design and installation of the UK's first Offshore Wind Training Tower in North East England which was the result of a collaborative training partnership backed by RDA, One North East, Northumberland College, Mainstream and Narec. The Training Tower is an open access facility, designed to allow education and training providers to deliver practical training programmes aimed at increasing the quantity and & quality of technicians available to employment in the wind industry. The initiative was hailed as an exemplar in public/private and academic collaboration.

PEOPLE WHO CAN DELIVER



Andy Kinsella, Director and Chief Executive Officer, Offshore

Andy has overall responsibility for the development and construction of all offshore projects. He is also Chairman of the Board in the SMart Wind consortium - a 50/50 joint venture with Siemens Project Ventures to develop 4GW of wind farms off the Hornsea coast by 2020. Andy has over 25 years experience in the global electricity sector in senior management positions within ESB, ESB International, Siemens and GE.

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Cameron Smith, Chief Operating Officer, Offshore

Cameron has overall responsibility for all operational activities in the offshore business with an emphasis on managing and supporting our key offshore development projects. Cameron established Mainstream's Scottish business in April 2008 where he managed Mainstream's successful application for the 420MW Neart na Gaoithe project. A chartered electrical engineer, Cameron was previously one of four original members of Airtricity's successful Scottish team.

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Chris Hill, General Manager, SMart Wind

Chris manages the Round 3 SMart Wind consortium, a joint venture with Siemens. Since joining Mainstream, Chris has successfully overseen the establishment of a portfolio of over 5GW of offshore wind farms. In May 2010, Chris was nominated to the Board of RenewableUK and he is also Chair of the RenewableUK Offshore Wind Strategy Group.

Chris.Hill@Mainstreamrp.com



Adam Bruce, Global Head of Corporate Affairs

Adam is responsible for the company's communications, policy and regulatory work. He is the former Chairman of RenewableUK. As the former UK CEO of Airtricity, Adam was responsible for the teams developing Europe's largest onshore and offshore wind farms.

Adam.Bruce@Mainstreamrp.com



Steve Clarke, UK Content Manager

Steve is responsible for maximising UK products and services and leads the Skills and Training agenda. With a mechanical engineering background and ten years experience across the private and public sectors, Steve has a proven track record in successfully supporting renewable energy businesses to develop and grow their technologies, products, services and people.

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Zoë Crutchfield, Offshore Environment Manager

Zoë has over 15 years experience of the offshore marine environment including time at JNCC advising on the environmental impacts of oil and gas, renewables, aggregates and shipping operations. Zoë manages the Environmental and Consenting programmes for the SMart Wind R3 Hornsea Zone and Neart na Gaoithe. Zoë has extensive experience in SEA and EIA alongside a thorough understanding of the structure and workings of UK government and a history of active involvement in groups such as COWRIE.

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Stuart Dawson, Grid Connection and Electrical Design Manager

Stuart is responsible for the design, engineering and delivery of the offshore and onshore electrical infrastructure relating to the Hornsea wind farm development. He is a Chartered Electrical Engineer with more than 25 years experience in safety-critical engineering industries – primarily railways and electricity utilities – spanning engineering design, construction, commissioning, operations and maintenance (O&M), project management, and business strategy.

Stuart.Dawson@Mainstreamrp.com



Nick Fedorkiw, Regulatory Affairs Manager

Nick is responsible for the regulatory aspects of Mainstream's offshore wind projects, including the Supergrid. Nick is a member of RenewableUK's Economics & Markets Strategy group. Prior to joining the company he was an economist at the Ministry of Finance in Canada.

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Mike Hay, Offshore Delivery Manager

Mike is responsible for designing and delivering a strategy of cost reductions and performance improvements across SMART Winds portfolio of UK Round 3 projects. Prior to joining the company, he set up and managed the Carbon Trust's Offshore Wind Accelerator and spent four years at RenewableUK, latterly as Head of Offshore Renewables.

Mike.Hay@Mainstreamrp.com

Chris Jenner, Environment and Consents Manager, SMART Wind

Chris is responsible for the process of obtaining all necessary offshore & onshore consents for the Hornsea Zone and providing technical and strategic advice in relation to offshore environmental issues for the SMART Wind project. He has previously gained 15 years post-graduate experience in a range of offshore industries in the UK and overseas and has in-depth knowledge and experience working on offshore renewable energy projects.

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Gemma Harrington, Energy Analyst

Gemma is responsible for energy analysis on Mainstream's offshore wind projects, including the SMART Wind R3 Hornsea Zone, Horizont (German North Sea) and Neart na Gaoithe (Scotland). Gemma previously worked for two years as Wind Analyst for SWS Natural Resources, based in Ireland.

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Dr Ing Keith Harsham, SHEQ Manager

Keith manages SHEQ for all UK offshore developments. Keith has extensive experience in EIAs, H&S in design, construction, operation and decommissioning, governance, auditing and permitting acquired through offshore oil and gas, and gas storage activities. He has also worked with trade associations, often as Chair and participated in many government working groups during the development of regulations. Keith is a member of the H&S working group of RenewableUK.

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Cathryn Hooper, Manager, Strategic Development

Cathryn has been responsible for developing Mainstream's offshore delivery strategy, focusing on optimising consenting, project design and partnering strategies to win and then deliver the Hornsea and Neart na Gaoithe projects. The role now extends to considering new opportunities and expanding the offshore business into new markets. Previously, Cathryn chaired RenewableUK's Consents and Licensing Group and was a member of the Offshore Wind Strategy Group.

Cathryn.Hooper@Mainstreamrp.com

Tilman Schwencke, Country Manager, Germany

Tilman is currently developing wind farms in the German North Sea with a potential capacity of over 1GW. He is a member of the European Offshore industry expert group of the EU Offshore Wind Coordinator. His previous roles include Public Affairs Manager for Airtricity and Energy Adviser at the European Parliament responsible for legislation on renewable energy and energy efficiency.

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Ole Stobbe, Offshore Engineering, Germany

Ole is responsible for engineering tasks around the 1GW offshore wind farm Horizont in the German North Sea. Ole has previously worked as lead engineer with Airtricity for the German offshore wind farm Butendiek and in several consultancy positions in the field of wind onshore and offshore wind farms.

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David Sweenie, Offshore Project Engineer

David is responsible for the successful delivery and management of engineering services for the Neart na Gaoithe offshore wind project. David joins Mainstream from the oil & gas industry, and has 12 years offshore experience.

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James Lowe, Offshore Engineer

James is responsible for contracting and managing the geotechnical and engineering teams and facilitating interfaces between the engineering and environmental work streams for the SMART Wind consortium. Previously he served as the joint Commercial and Engineering Manager on Mainstream's Neart na Gaoithe project.

James.Lowe@Mainstreamrp.com





MAINSTREAM RENEWABLE POWER

“Our core business is to develop, build and operate renewable energy plants, globally. It’s our approach that sets us apart – our vision, our passion, our entrepreneurial spirit and most of all, our commitment to partnership.”

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