Pushing Offshore Wind Energy Regions (POWER)

Offshore Wind The Germany / UK Connection





European Week of Regions and Cities Brussels 9-12 October 2006

5th October 2006 – Astral Centre, Lowestoft College

eastofengland

International Global Connections for Business

Sponsored by:













East of England the energy region





John Best



Chief Executive

5th October 2006

EAST OF ENGLAND ENERGY GROUP



Who are we...



EEEGR is a business led, business driven regional energy industry association.



Our vision is simply:



"the sustainable production and wise use of energy"



Representing over **260** member companies.

















East of England ... the energy region

- World-class expertise with R&D expenditure three times the national average
- Excellence in further and higher education
- A well-established manufacturing base
- One of the largest concentrations of new and growing businesses in the country
- Fast access to London, without the associated costs of a capital city







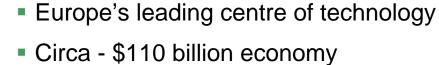
East of England ... the energy region











- Population of 5.5 million
- home to over 1900 overseas-owned business
- UK leader in research and development
- 3 tier market access UK, European and Global



eastofengland







Offshore Gas ... UK Gas Capital







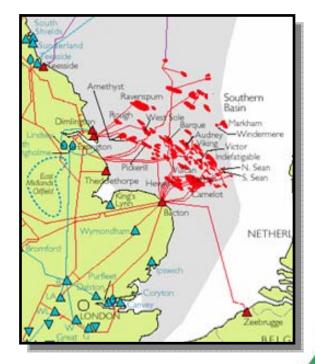




- UK's second largest energy manufacturing and service base
- Southern North Sea
 First area in UK for offshore gas
- 130 SNS platforms
- 50+ coming through Bacton, Norfolk
- 1200+ highly developed supply chain
- 40 years innovation and opportunity

Specialist knowledge

- Geosciences
- Shallow Water
- Satellite Operations & Maintenance
- Mature Asset Management







Offshore Gas ... UK Gas Capital











Over the next 10-15 years

 UK will be increasingly reliant on oil and gas to meet its primary energy needs.

• UK North Sea – continued investment

£10 billion expenditure in 2005

Maximising recovery of the UK's indigenous reserves will:

- cushion impact of energy price volatility and
- bring many other direct benefits (employment, tax revenues, investment, balance of trade, etc).

DTI projects:

- UK's oil and gas needs will rise to 85 percent in 2020.
- demand for gas for power generation will grow by 60 percent over the same period.









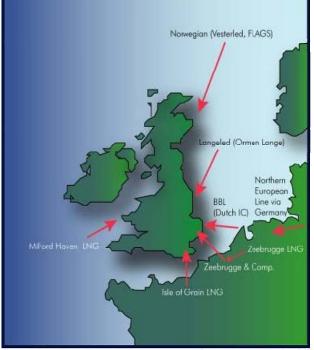






European Gas ... UK Landing Point

- UK Gas demand is growing
- New Imports are on the way
 - Langeled (Ormen Lange)
 - Bacton Belgium Interconnector Upgrades
 - Bacton Holland
 - Dutch Interconnector (BBL Pipeline)
 - Isle of Grain LNG
 - Milford Haven LNG
- SNS the future hub for UK & Europe via new infrastructure



Seurce: Netlonel Grid Transce / UKOCIA















Nuclear ... past, present and future

- An integral part of the region's energy mix
- Bradwell closed, currently defuelling
- Sizewell A 420MW
 - Due to close Dec 2006
- Sizewell B 1,188MW
 - Operating until 2035
- Sizewell C ??
- Employing over 1200 local people directly
- Consultation under way on framework for New Nuclear Build





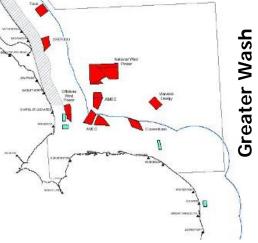


Scroby Sands



The Wind is in the East

East of England poised to become the world's largest offshore wind market



- 18 regional projects due online prior to 2012
- 60 1,200 MW developments using 2 - 5 MW turbines
- In water depths of 2 28 metres

OF ENGLAND ENERGY

Region's first operational project

- The UK's 2nd offshore wind farm
- 30 x 2 MW turbines
- £80m (including initial 5 years O&M)
- Commercially complete Dec 2004
- Formally opened May 2005













POWER

- Creating a North Sea competence network for offshore wind energy
- Partners across UK, Germany, Denmark, Belgium and the Netherlands
- Strategies and knowledge
 - Supply chain development
- Skills development





Energy Regions

and a second second EAST OF ENGLAND ENERGY











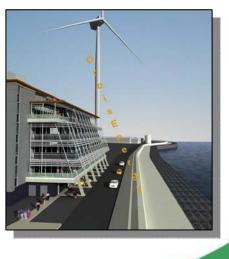
OrbisEnergy

- Innovation & incubation centre Offshore renewable energy
- Technology transfer / acceleration
- Business development
- Offshore supply chain management
 - Links to higher education research facilities
- Conference and exhibition centre

RENEWABLES









THE VOICE FOR ENERGY IN THE EAST OF ENGLAND!

Waveney District Council Serving the Community

Suffolk

County Counci



Beacon Innovation Centre

- Innovation & incubation centre Energy and Electronics sectors
- Technology Transfer
- Business Development
- Offshore supply chain management
- Staff development
- Links to higher education research facilities









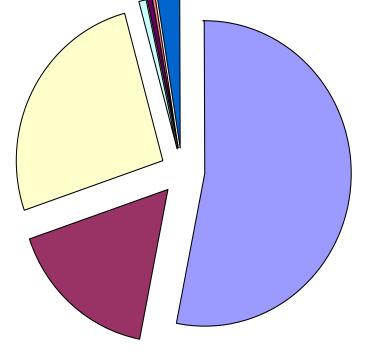
A Balanced Mix the regional picture











Gas (53%)
Coal/ Oil (16.7%)
Nuclear (26%)
Poultry (0.8%)
Straw (0.6%)
Wind (onshore) (0.4%)
Wind (offshore) (2.4%)

Source: EEEGR [July 2006]



Total installed capacity = 6.2GW (circa 8% of UK's total)





Profile Raising

ee.













- >10000 web visitors p.m.
- over 75 industry events
- average 85% private sector





Energ















- Southern North Sea conference
 - Offshore energy
- Energy Innovation Awards
- All Energy Summer Conference
- Networking breakfasts
- Inward investment delegations
- Outward export missions
- National / International Trade shows







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A regional resource to geographically and visually demonstrate cluster growth and supply chain relationships.



OHO world and a reach sing carrying and letters
 Beopoles manufacts ing, including guidence
 Wide variety of excitance machinesis

mangin of warscharturing from individual prevent, on the presentation is and

Mapergy... the online supply chain

OWESTOFT

- An integrated energy supply chain
- Sector Classifications Role
- Used in five supply chain studies
- Global accessibility...
- ... and it works!



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Membership Driven

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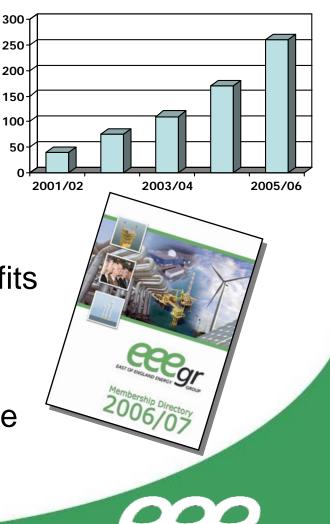








- Member focus
- Collaborate to compete
- 260 Members
 - Regional Commercial
 - Non-Regional Commercial
 - Supporters
- Delivering membership benefits
- Diverse range of activities
- All-energy community
- One voice, focussed message



F FMGI AND FNFRG



Making a mission of it



Norway Inward Missions June 2004 & April 2005

royal norwegian embassy london

🦹 norway

Koninkrijk der Nederlanden



Making a mission of it







PDVSA PDV (UK) S.A.



12 Venezuelan companies40 UK companies

 70 individual meetings between UK and Venezuelan companies that took place in just one afternoon.



06-07 June 2005

Venezuelan Inward Mission



Skills for Energy

- Sector Attraction / Employer Interface
- Training Provision
- Competence and Training
- Labour Market Intelligence

Business led partnership

- Coordinated solution driven approach
- Engagement with schools, colleges and Uni's
- Employers shaping the programme
- £500k to support business critical training
- Delivery through partnership, that means you!



www.skillsforenergy.com











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Academia ... the regional network

- Cranfield University
- University of Cambridge
- University of East Anglia
- University Campus Suffolk... coming soon!

Lowestoft College

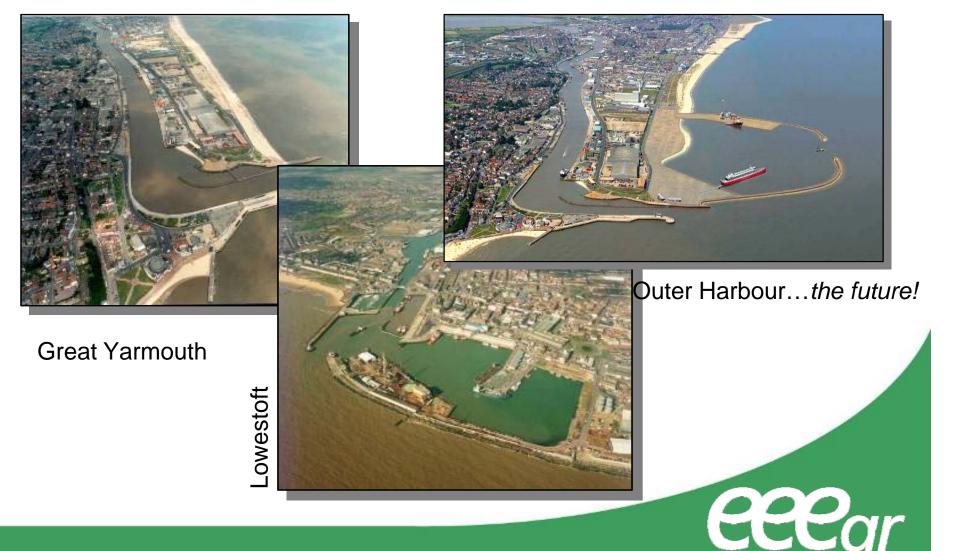
Centre of Vocational Excellence - Offshore



- 10 the regional academic network
- Collaboration and Innovation
- Regional Energy Champion John Best



Logistics ... the twin ports



GROUP

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Future Challenges

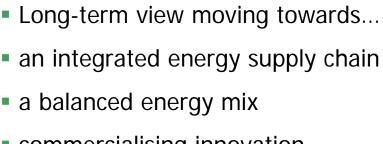








"Don't forget – Offshore oil and gas is the bridge to making offshore renewable a reality." [Shell 2005]



- commercialising innovation
- a lower-carbon economy
- an attractive industry for local careers
- the EU hub for energy industry









East of England the energy region





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