

Ynys Ynni

Energy Island

Objectives

- **Background to Energy Island**
- **Potential developments**
- **NRW Governance**
- **Links to Marine Programme Board**

Proposed Energy Related Developments

August 2012



Manna Current Turbines
A Siemens Business

Proposed Tidal Array between the Skerries and Carmel Head producing 10 MW of Renewable Energy




Stena Line

Holyhead Port – International Strategic Gateway



LAND & LAKES
Environments for life

Proposed 800 Unit mixed use Development of Residential, Tourism Village and Leisure Facilities. Stage 1 – Wylls Workers Accommodation



LATERAL POWER

Proposed 299 MW Biomass / Eco Park providing Energy & Steam for Hydroponic & Aquaculture Enterprises




DONG energy
centrica energy

Proposed Irish Sea Round 3 Offshore Wind Farm - potential yield of 4.2 GW of Renewable Energy




MagnaX

Existing Wylfa Power Station – 460 MW of Low Carbon Energy End of Generation 2014



PŴER NIWCLEAR
HORIZON
NUCLEAR POWER

Proposed New Nuclear Power Station with generating capacity of around 3.3 GW of Low Carbon Energy



nationalgrid

Connecting Proposed New Low Carbon Energy on Anglesey





Rhiannon Wind farm

- Round 3 Irish sea zone - CENTRICA**
- CENTRICA / DONG Partnership 2012**
- Three potential development zones**
- Rhiannon zone – potential for 2.2 GW**
- 146 – 440 turbines, 4 - 15 MW, 300 metre to tip**
- Connection to Grid on Anglesey**
- Permissions secured by 2015/16**



Wylfa B

- **Horizon Nuclear Power Ltd**
- **Hitachi Ltd 2012**
- **2 ABWR reactors next to existing Wylfa site**
- **Up to 2.7 GW generation**
- **Hitachi need to secure GDA**
- **Work programme being developed**
- **Permissions in place by 2018**
- **Final Investment decision 2018/19**
- **First reactor generation 2022+**

National Grid

- **Need to strengthen existing transmission infrastructure to accommodate new generation.**
- **Strategic Optioneering and public engagement**
- **Shortfall identified between Wylfa and Pentir and across Glaslyn Estuary.**
- **Public engagement on preferred option**
- **Additional connections proposed from Ireland.**
- **Permissions secured 2016/17**

Other developments

- **Marine Turbines**
 - **10MW Tidal generation Unit by Skerries**
 - **Permissions secured**
 - **Construction work to progress in 2015**
- **Lateral Power**
 - **299MW Biomass generation plant and Aqua culture facility**
 - **Permissions secured but awaiting review.**
- **Decommissioning of existing Wylfa**
- **Other Low Carbon generation – Wind & Marine**
- **Associated Developments and Enabling Works**
 - **Accommodation**
 - **Transport upgrade, road and sea**
 - **Support services**

Challenges for NRW

- **Major infrastructure developments (£20 Billion)**
- **One stop shop, speak with one voice and be joined up**
- **Enable economic growth while protecting the environment and communities**
- **Numerous environmental permissions**
- **Appropriate internal resource and skills**
- **Secure further financial agreements**
- **Develop an open and transparent stakeholder engagement process**

Bwrdd Y Rhaglen / Programme Board

Tim Jones
Cyfarwyddwr Gweithredol –
Gweithredoedd Gogledd a'r
Canolbarth
Executive Director –
Operations North & Mid

Richard Siddons
Pennaeth
Gwasanaethau
Technefol a Gofal
Cwsmer
Head of Technical
Services and
Customer Care

Iwan Williams
Rheolwr Rhaglen
Programme
Manager

Rhian Jardine
Pennaeth Cymunedau
Cynladwy
Head of Sustainable
Communities

Isobel Moore
Pennaeth Rheoleiddio
Busnes ac Economeg
Head of Business
Regulation &
Economics

Nia Jeffreys
Arweinydd Cyfathrebu
a Hapddalwyr
Communications and
Stakeholders Lead

Andrew Graves
Cyfreithiol
Legal

Michael P Jones
Cyfrifydd Prosiect
Project Accountant

Ruth Jenkins
Rheolwr Systemau Eco,
Cynllunio a Phartneriaethau y
Gogledd
Ecosystems, Planning and
Partnerships Manager, North

Gareth Hall
Llywodraeth Cymru /
Cyngor Sir Fon
Welsh Government /
Anglesey Council

Martin Murray
Asiantaeth Yr
Amgylchedd
Environment Agency

Alan McGoff
Asiantaeth Yr
Amgylchedd
Environment Agency

Energy Island Programme Structure

