



OREF

ORKNEY RENEWABLE
ENERGY FORUM

Welcome and overview of
Orkney's achievements and
the local supply chain

www.oref.co.uk

Gareth Davies - Chair

OREF Aim's and approach



- Formed in 2000
- Communication forum
 - To identify issues and opportunities
 - To promote solutions and lobby for change where needed
 - To facilitate collaboration
 - To encourage the development of renewables potential in a sustainable way and for the benefit of the whole Orkney community
- Has around 50 members
- Has been instrumental in lobbying for change and overcoming major obstacles, but a number still remain

Energy achievements of Orkney, in Orkney and Orkney waters



Record breaking achievements

- **World's largest wind turbine** (3MW) 1984-95
- **First locally owned 1MW turbine** in Scotland (2003)
- **World's largest marine energy test centre**
- **First grid connected offshore wave energy**
- **First UK grid connected tidal energy**
- Over **109% of electricity demand** from renewables in 2015

Major energy infrastructure

- **30 large wind turbines** installed
- **500 micro wind turbines** installed
- **400 other micro renewables** and energy efficiency installations
- **Over 60MW** installed renewables capacity
- **Over 60%** of capacity in local and community ownership
- Also handled **10% of UK oil** production since 1970's

World leading experience and expertise

- Cluster of **10 major marine energy companies**
- **Operating base** for a number of technology and project developers
- **19 marine energy technologies** tested
- Over **50 technology deployment and recovery** operations
- **3000 vessel days** of maritime support operations
- **1600MW of marine energy capacity** awarded under lease options
- Home to the worlds **largest permitted marine energy projects**
- **450 MSc** and PhD graduates
- Knowledge transfer and collaborative relationships with over **20 countries and including 50 islands**
- Total renewables investment of over **£500M** including local investment of **£150M**

Making it all happen - marine energy people



Type of activity	Numbers of people
Planning and permitting	30
Technology development	35
Project development	5
Testing	25
Marine services	60
Insurance and finance	5
Regulation and enterprise	3
Research	10
Teaching and training	10
Students	35
Total	220

- Orkney has a unique cluster of expertise and experience
- Numbers were up around 300 in 2013/14
- Orkney needs to earn £6M per year just to keep these people employed, plus need to sustain facilities, vessels and equipment and also repay investment
- We are keen and ready to work with you anywhere in the world and well as here in Orkney



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Thank you

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