

Wood Group GTS

Keep on turning



Plugging Into Offshore



Agenda



- **Introduction to Wood Group**
- **Value in renewable energy**
- **Plugging into offshore**
- **Skills and Resources**
- **Summary**

Wood Group GTS - Renewable Energy



Wood Group



Serving oil & gas, power renewable energy industries worldwide



Our Renewable energy experience:

- Detailed engineering and project management of Sheringham Shoal substations
- Operation and maintenance of wind turbines on and offshore
- SWRDA wave hub
- Owners engineer Greater Gabbard

**Approx. \$5bn
sales**

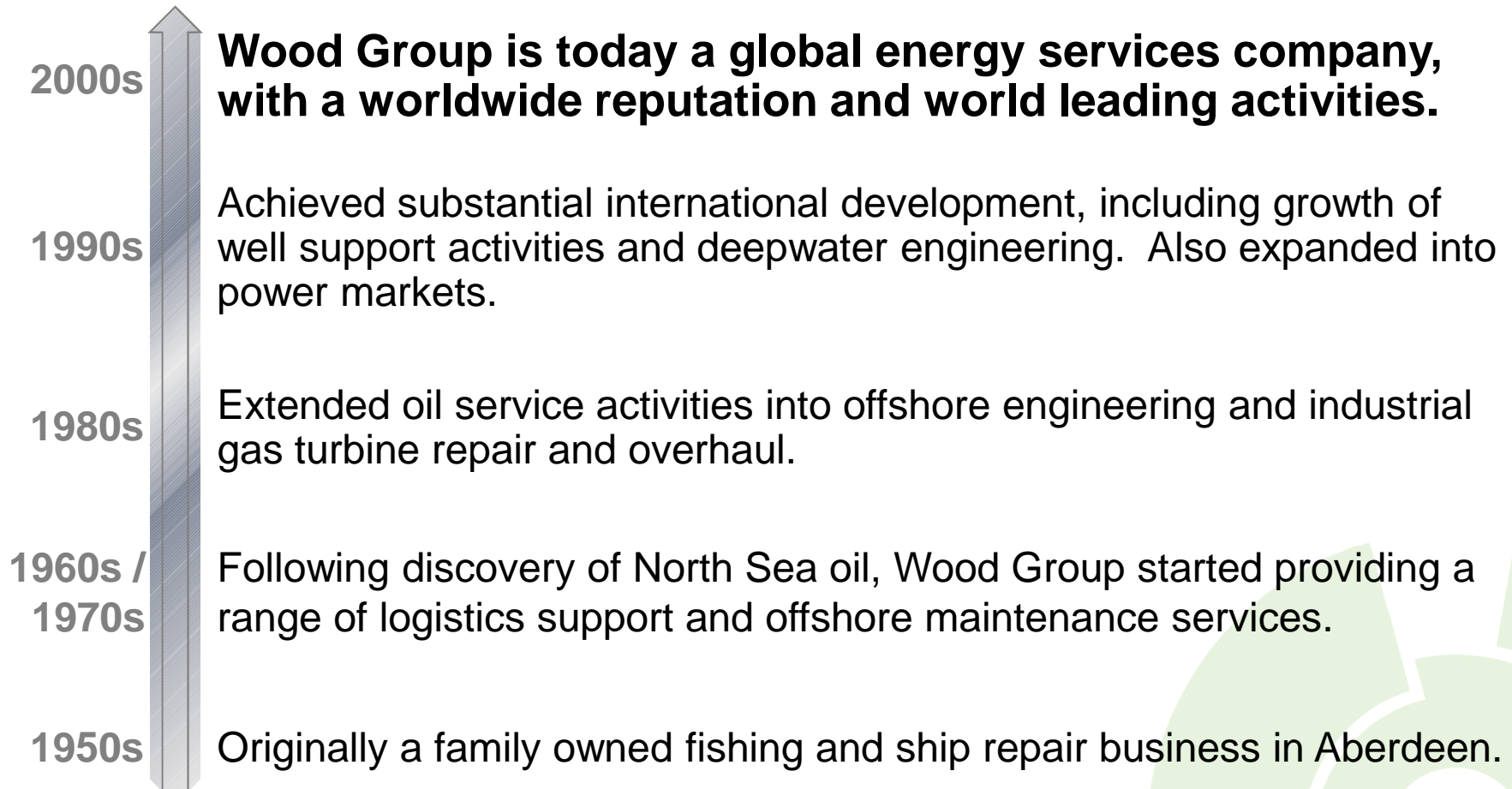
**27,000
employees**

**Operations in 50
countries**

Wood Group GTS - Renewable Energy



Wood Group - 50 years of continuous growth



Wood Group GTS - Renewable Energy



Wood Group – HSE raising the standard



Wood Group Vision for HSE Excellence



As an integral part of our business we will:

- maintain a healthy workplace
- prevent accidents
- minimise adverse environmental impact

What must we do?

- **Leadership**
set high personal standards
- **Communication**
communicate openly and effectively
- **Culture**
create a culture in which we all care for each other
- **Understanding**
ensure everyone understands what is expected
- **Support**
learn from our experiences and share best practice
- **Commitment**
demonstrate our commitment with actions rather than words

We will be successful:

- when no-one is hurt
 - when others copy us
-and we remain committed to further improvement

Sir Ian Wood Chairman	Allister Langlands Chief Executive	Mark Pigworth Group Director	Jim Renfroe Group Director	Alan Sample Group Director	Mike Straughen Group Director	Les Thomas Group Director



HSE

“HSE – Commitment To Excellence”



Wood Group GTS - Renewable Energy

Where Is The Value In Renewable Energy?



- European legislation - 20% by 2020
- 40+ GW operating if all R3 and STW projects go ahead
- 20+ GW operating in EU by 2020 (EWEA)
- Current costs £2.8 – 4.0 million per MW
- US\$200 Billion in revenue from R3 & STW alone

Wood Group GTS - Renewable Energy



Plugging into Offshore



*Its not about **OIL & GAS***

*Its not about **WIND***

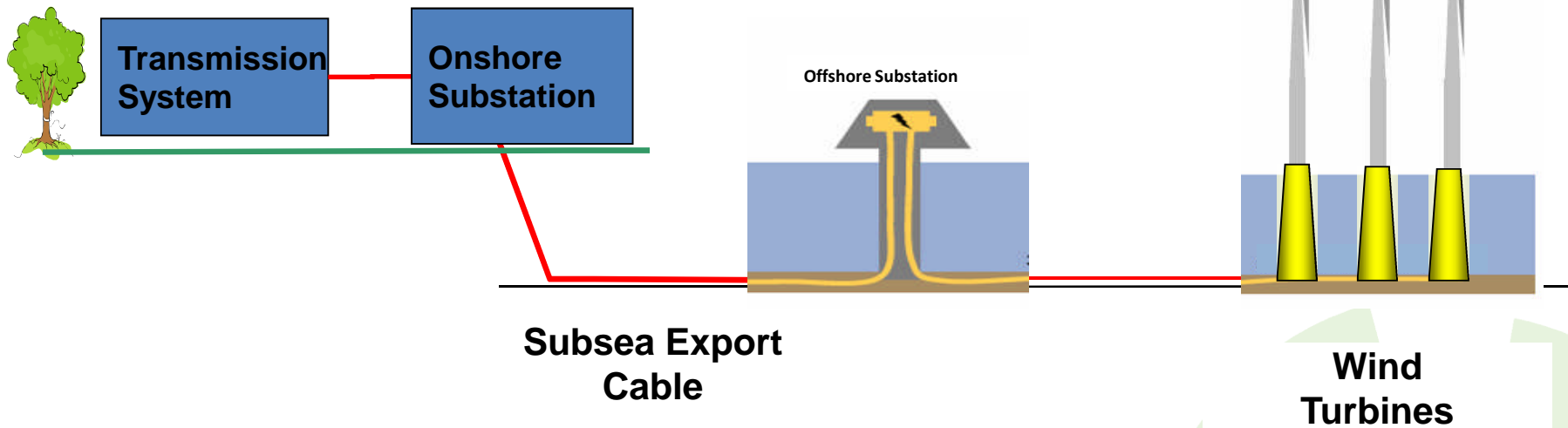
*Its about **OFFSHORE***



Wood Group GTS - Renewable Energy



Offshore Wind - The Similarities



What do we mean by offshore



- 30 years of experience in the offshore environment
- Opportunity to adapt current offshore technologies
- Ability to reduce project costs and share in the upside
- Opportunity to capitalise on the broad range of skills
- Share learning between the Wind and Oil & Gas industries
- Neither party have all the answers

Why reinvent the wheel?

Wood Group GTS - Renewable Energy



Offshore renewable energy resources?



- Vessels – 20+ vessels required
- Cables – currently insufficient manufacturing capability
- Fabrication – insufficient resources to complete all R3/STW
- Storage – significant issue
- Finance – a mini credit crunch?
- People – where are they coming from



Summary



Offshore Renewable Energy

- Believed to be the next industrial boom for UK
- Need for all to adapt to a new market
- Easily transferable skills
- Need for shared learning
- Working with each other to achieve cost reductions and efficiency improvements

Outlook for Oil and Gas service providers

- Well positioned to take advantage of opportunities
- Take a critical view of available resources

Time for action not words!!

Wood Group GTS - Renewable Energy



Contact details



Kevin Moran

Strategy and Business Development Director

Wood Group Renewable Energy Services

Phone: +44 (0) 1224 367226

Mobile: +44 (0) 7501 228 654

E-mail: kevin.moran@woodgroup.com

Wood Group GTS - Renewable Energy

