



Morna Cannon

Development Officer (Marine and Bioenergy)

Scottish Renewables

**Firth of Clyde Forum
Annual Conference**

11th November, 2008

The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



OUTLINE

- Introduction to SRF
- Why renewables?
- Status quo – Scotland
- Expected growth – 2020
- A contribution from the Clyde?
- Lessons learnt
- Going forward

Introduction to Scottish Renewables

- Scottish Renewables
 - Trade association & forum
 - Over 250 members
 - NGOs, public bodies, communities & commercial
- Creating viable and sustainable markets for renewable technologies
- Information, events, policy

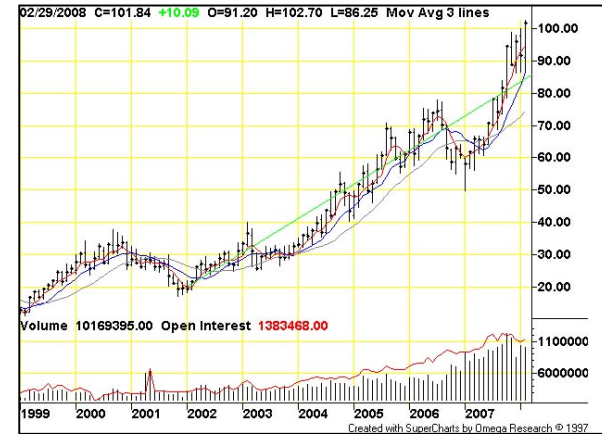


The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



WHY?



The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



STATUS QUO

Operating Renewables Projects

TECHNOLOGY	Installed Capacity (Megawatts)
Hydro*	1380.15
Wind	1400.68
Energy from Waste	99.68
Biomass Electricity	78.92
Biomass Heat**	29.41
Wave†	0.50
Tidal†	0.00
TOTAL MW	2989.34

* Not including pump storage

**CHP is split between Heat and Electricity

†Not including testing capacity at EMEC

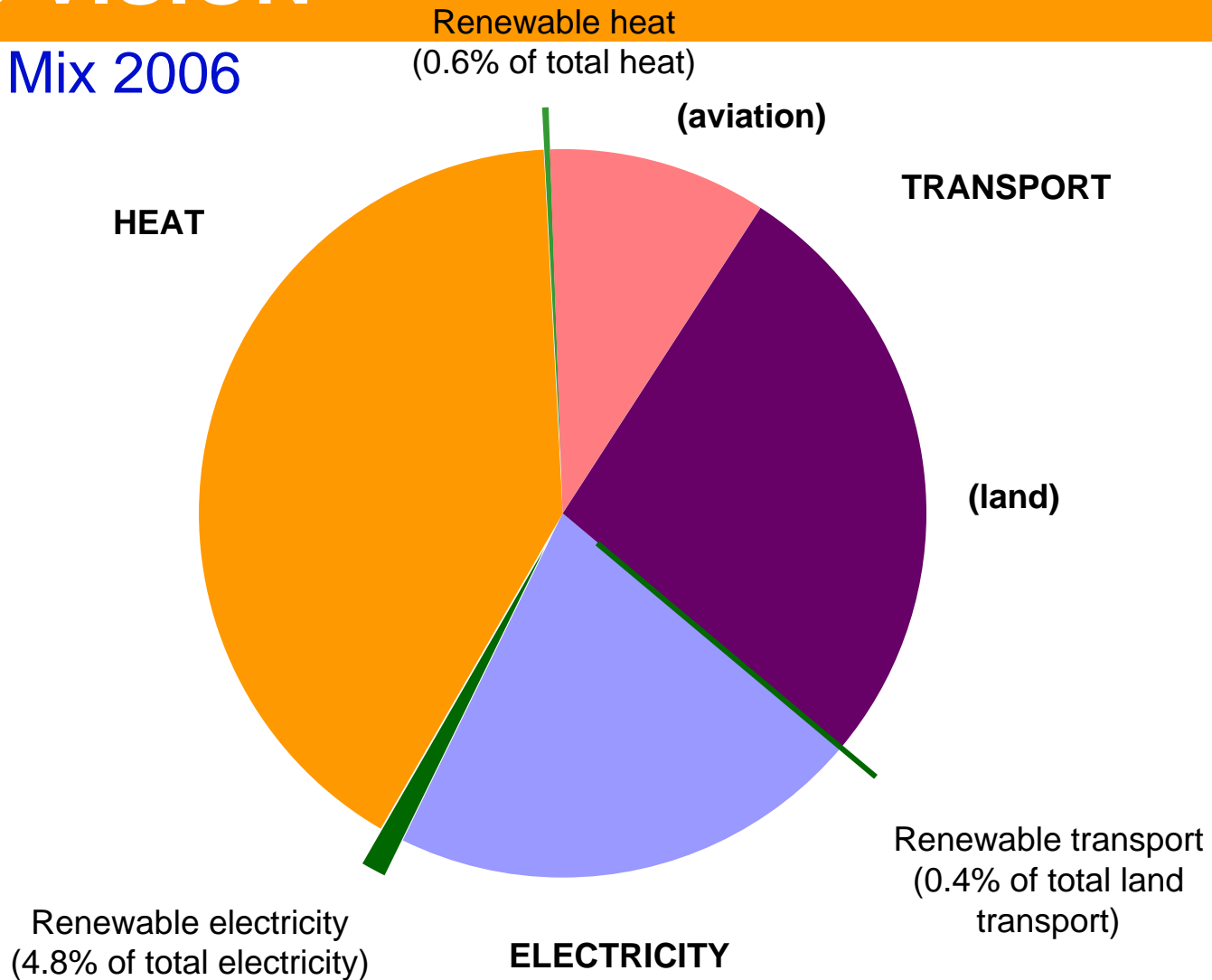


The Forum for Scotland's Renewable Energy Industry



20/20 VISION

Energy Mix 2006



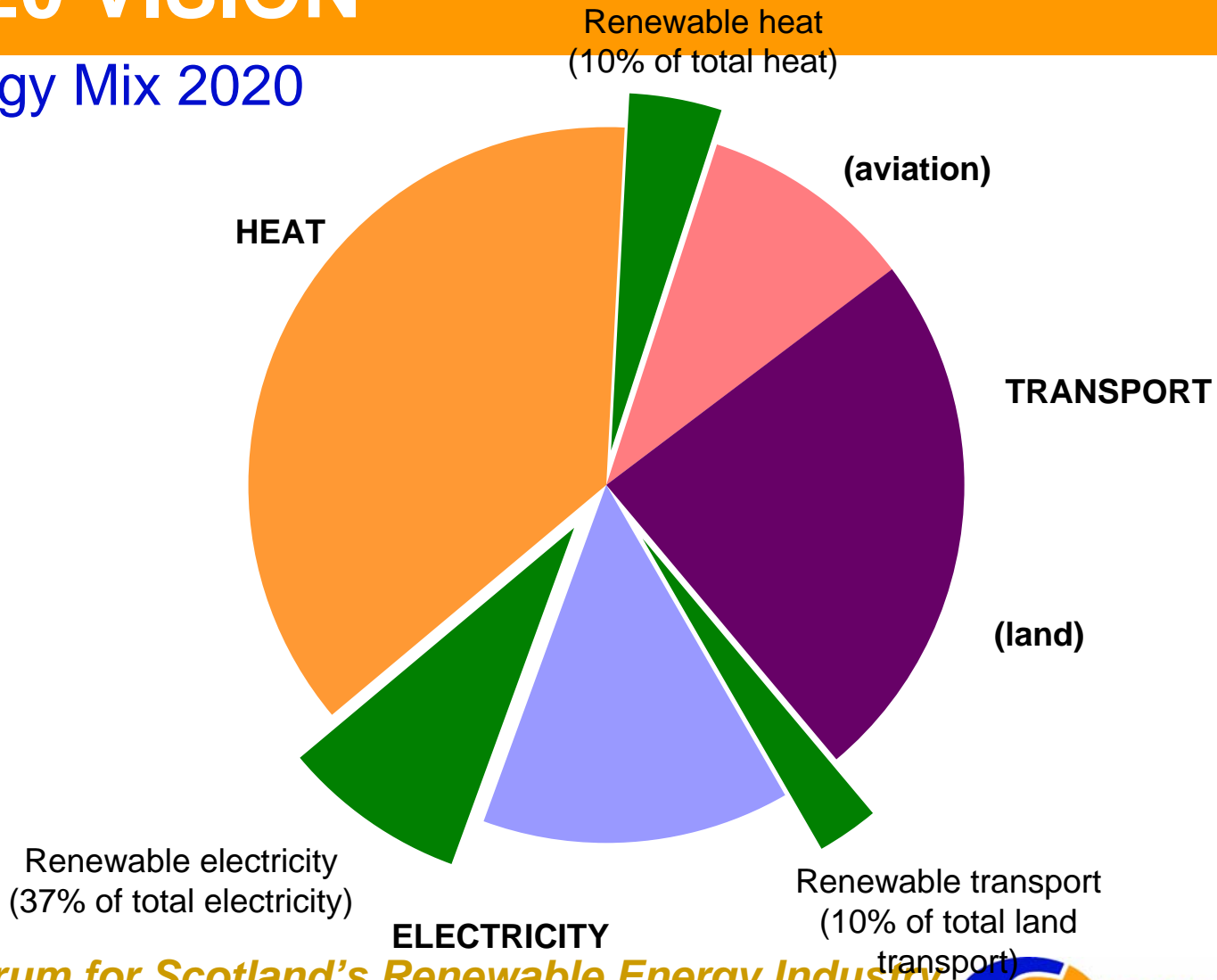
The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



20/20 VISION

Energy Mix 2020



The Forum for Scotland's Renewable Energy Industry

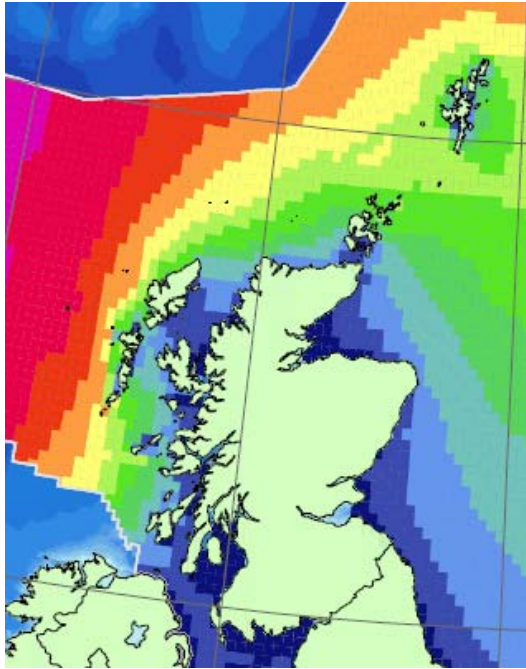
© Copyright Scottish Renewables Forum 2009



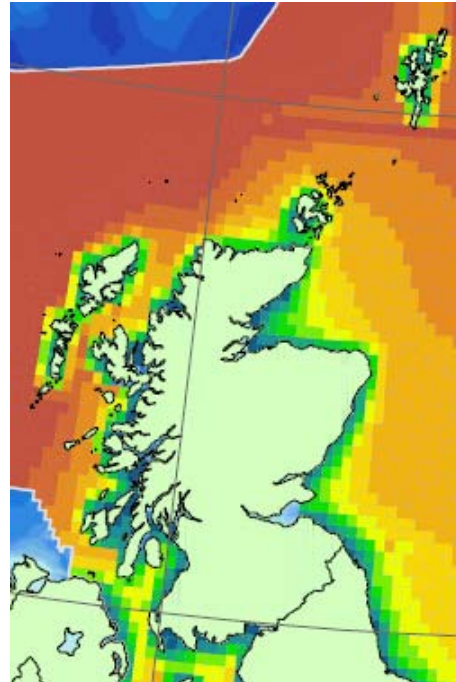
20/20 VISION

Energy Type	UK?	Scotland?
Offshore Wind	+14 GW (+33GW by 2030)	+ 0.6 GW
Marine (Wave/Tidal Stream)	+ 2 GW	+1.3 GW (0.7 GW Pentland Firth)

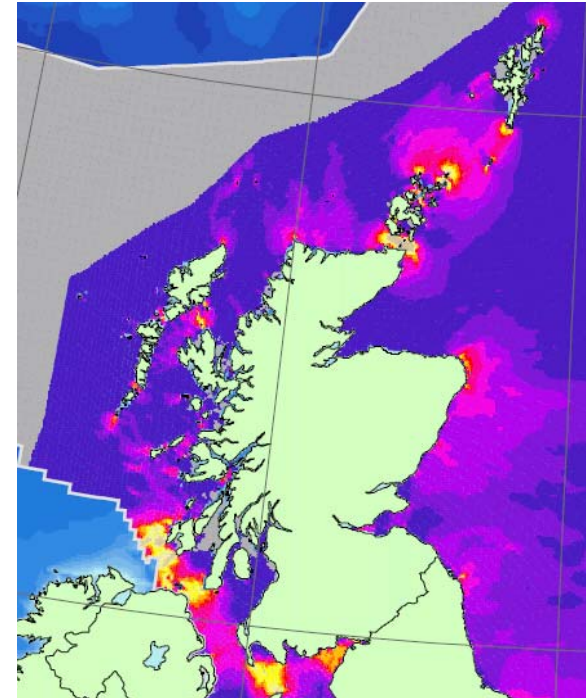
20/20 VISION



Wave Energy
Resource



Offshore Wind
Energy Resource



Tidal Stream
Energy Resource

The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



THE CLYDE'S CONTRIBUTION

Location, Location, Location

Resource?

Grid?

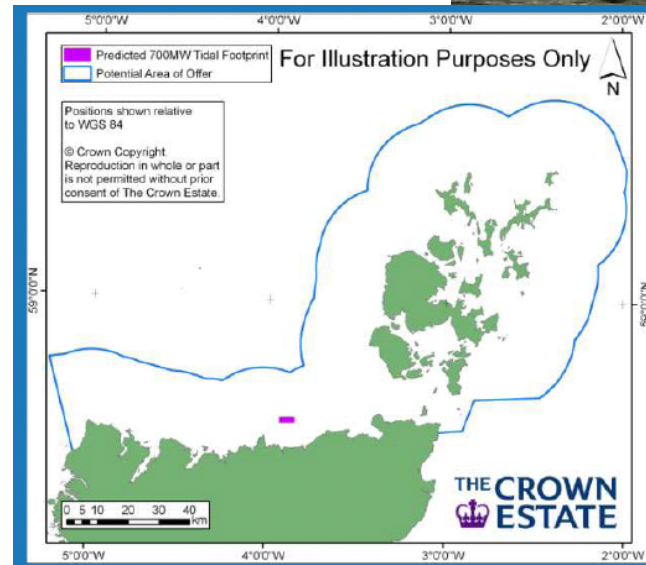
Planning?

Leasing?

Operability?

Energy demand?

Infrastructure?



The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009

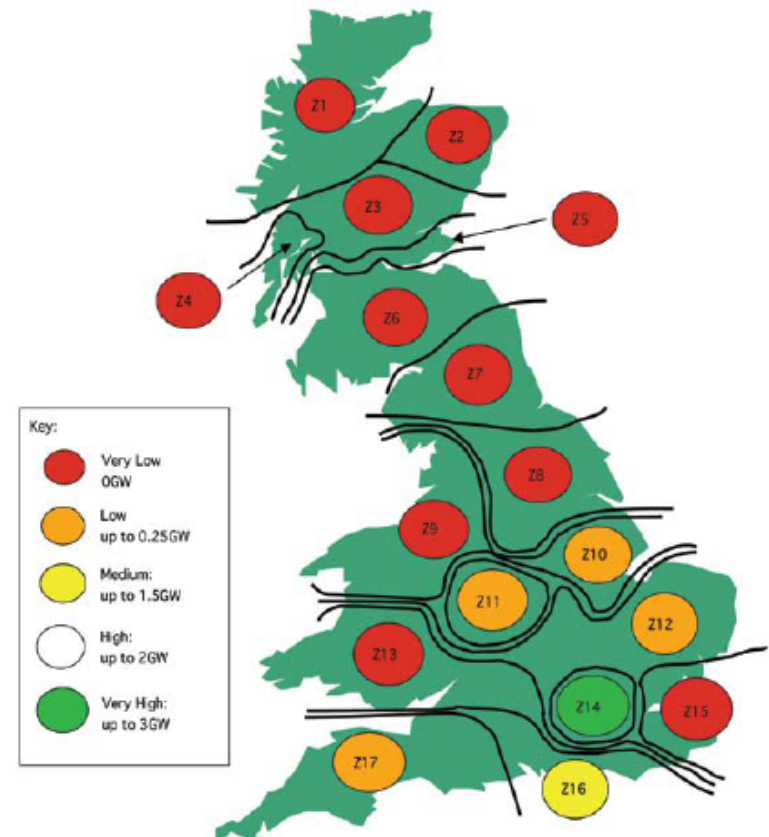


LESSONS LEARNED & GOOD PRACTICE

Technical & Grid

- Standards
 - Health & Safety
- Construction
 - Good Practice in Construction
- Strategic Planning
 - National Planning Framework

Figure 3.7: Generation connection opportunities in Great Britain



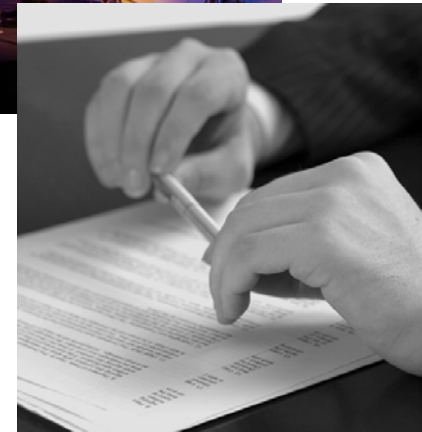
LESSONS LEARNED & GOOD PRACTICE

Planning & Sustainability

- Strategic planning – FREDS MEG, MESPG
- Environmental research – COWRIE, MESPG
- Visual Representation Guidance – SNH, SRF, SSDP
- Stakeholders – NOREL/OREEF/FLOWW

GETTING INVOLVED

- SSMEI
- Consultations
- Stakeholder groups
- SRF



The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009



Contacts

Morna Cannon

morna@scottishrenewables.com

www.scottishrenewables.com

The Forum for Scotland's Renewable Energy Industry

© Copyright Scottish Renewables Forum 2009

