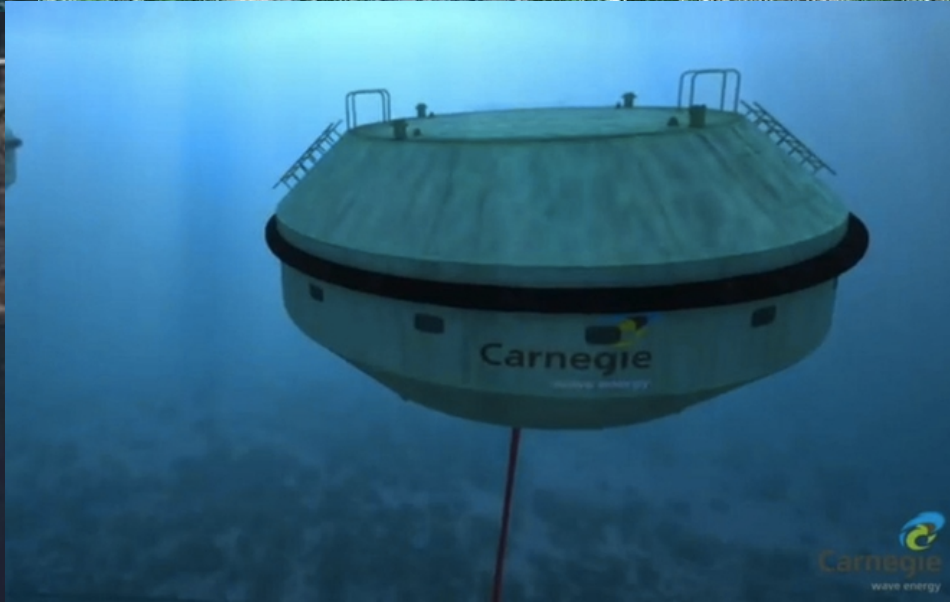
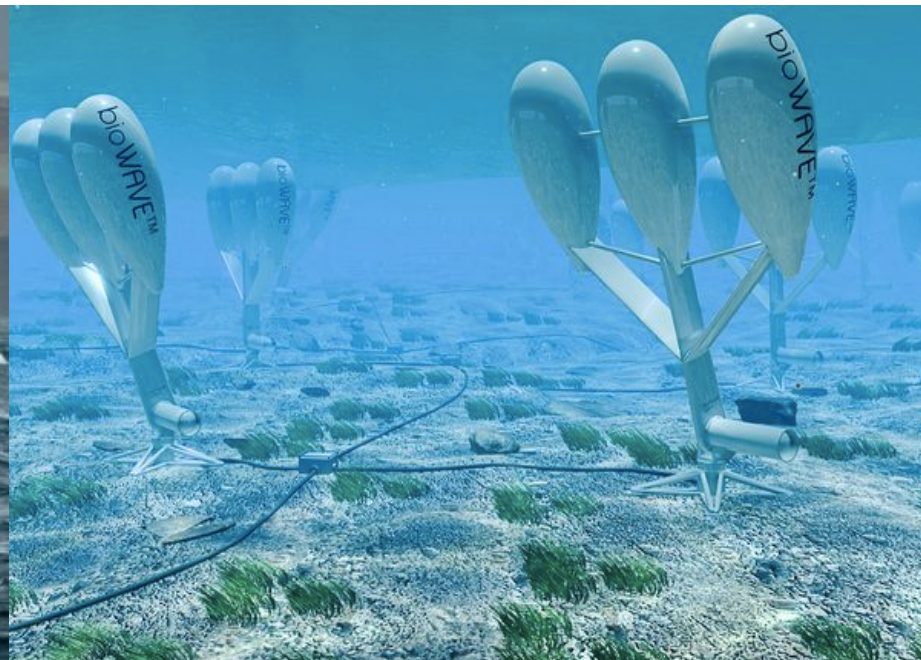


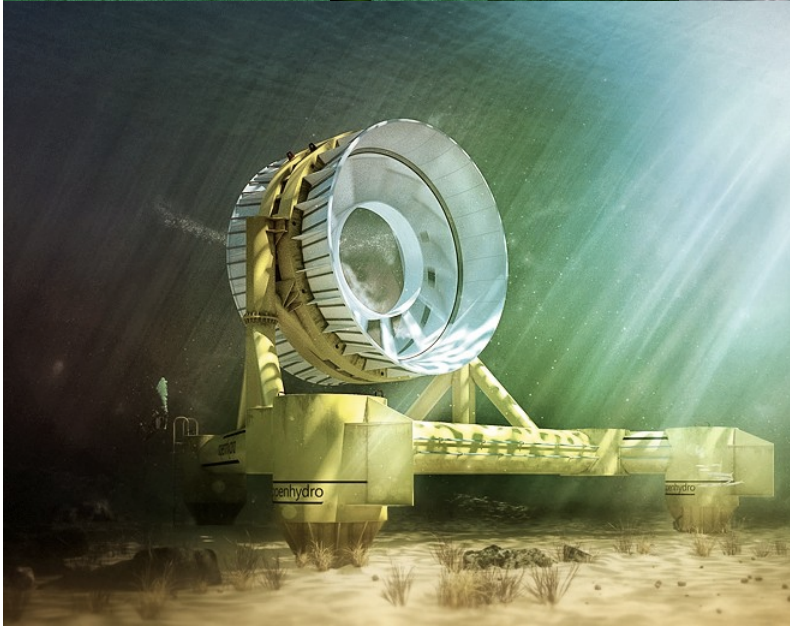
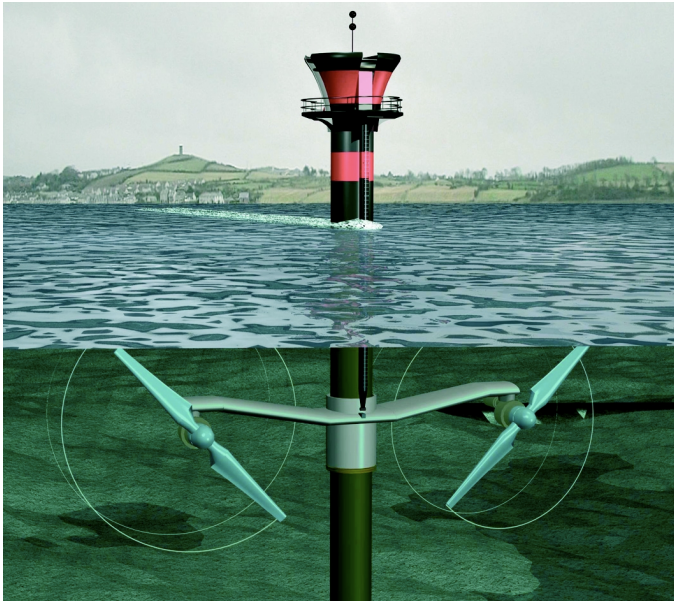
Accommodating Ocean Energy in Marine Spatial Planning Processes

MSP Summer School
Nantes, June 2015

Glen Wright







Projects

Tidal:

- Pelamis - 15-20 x 1MW devices, 1km²
- Meygen - 86 x 1MW, 1.1km²



	Compatible			Probably compatible			Incompatible																																	
	Commercial Fishing: Nets	Commercial Fishing:	Commercial Fishing: Pots/traps	Commercial Fishing: Spears/harpoons	Commercial Fishing: Trawls/dredges	Commercial Fishing: Seine nets	Commercial Fishing: Beach seines	Commercial Fishing: Purse seines	Offshore Aquaculture/Mariculture	Recreational Fishing: Hook/line Fishing	Recreational Fishing: Pots/traps	Recreational Fishing: Shellfishing	Recreation: Sailing	Recreation: Boating	Recreation: Personal watercraft	Recreation: Scuba diving/snorkeling	Recreation: Wildlife watching	Marine transportation	Port & harbor operations	Port & harbor dredging	Dredged material disposal	Offshore airports	Offshore industrial production facilities	Offshore liquified natural gas terminals	Offshore oil & gas exploration	Offshore oil & gas development	Cables, pipelines, transmission lines	Sand and gravel mining	Offshore renewable energy: wind farms	Offshore renewable energy: wave parks	Offshore renewable energy: tidal	Offshore renewable energy: currents	Ocean desalination plants	Carbon sequestration	Military operations	Strictly protected marine reserves	Multiple use marine parks	Scientific research		
Commercial Fishing: Nets																																								
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Fig. 14. Human use conflicts and compatibilitie matrix

Scotland

- First MSP in the **Orkney Islands**
- Orkney has **exceptional environmental quality**
- Marine resources important to **national and local economies**
- MSP driven by arrival of **wave and tidal energy**

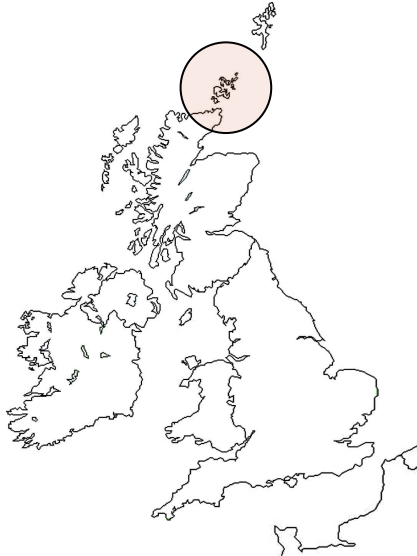
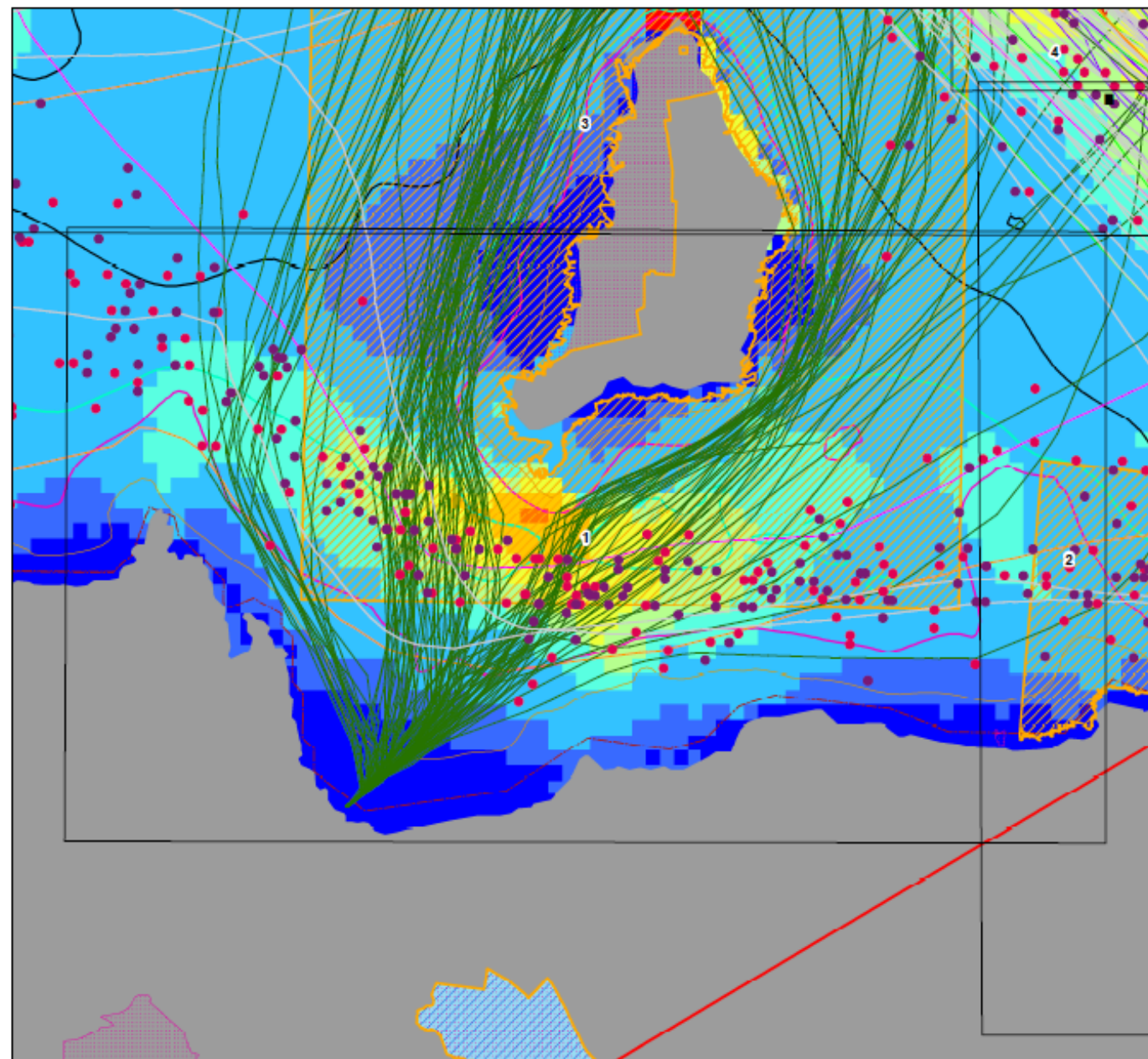
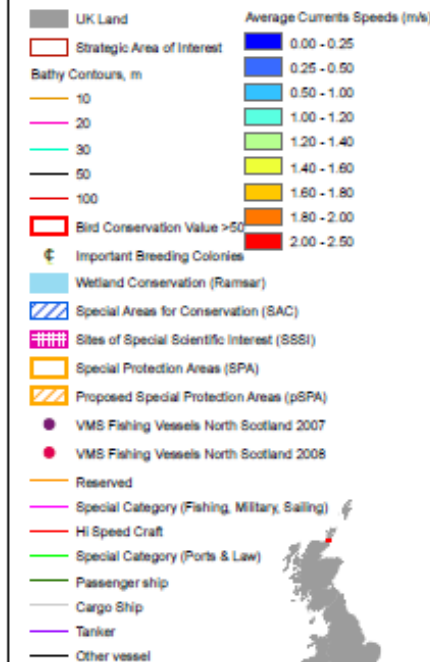


Figure 6.1b: Tidal Resource Detail Map Area 1



PENTLAND FIRTH AND ORKNEY WATERS MSP FRAMEWORK AND LOCATIONAL GUIDANCE Fig: Tidal Resources Details Area - 1

Legend



Date	March 1, 2010
Projection	British National Grid
Spheroid	Airy 1830
Datum	D_OGOS_1936
Data Source	CE, OS, SeaZone, SEPA, JNCC, SNH
File Reference	J:\P1109\Misc\Resources\Details Fig_Tidal_Resource_Area-1.mxd
Checked	Produced By: Harshal Gargale Reviewed By: David Wotherspoon

AECOM



0 0.25 0.5 0.75 1 Km

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Scotland

- **Policy-based** approach
 - Each activity has a **policy** developed to determine how it is prioritised and integrated with other activities
 - Areas are not ‘zoned’
 - More **flexible**, but leaves potential for **conflicts**
 - Very **long** process

Oregon

- **Exclusionary** approach
 - Plan zones different uses
 - 74% **incompatible** with ocean energy
 - 2% as “**Renewable Energy** Facility Suitability Study Areas”
 - Focusses on **constraints** rather than opportunities
 - Industry has expressed concern at what it sees as a ‘negative approach’

Key issues

- Prioritisation of uses
- Coexistence
- MSP vs. zoning
- Resource allocation
- Data
- Sustainability



IDDRI



SciencesPo.

Glen Wright

Institut du développement durable et des relations internationales (Iddri)

glen.wright@iddri.org