

Peter Barham Environment Ltd.



Delivering change across coastal and marine interface:- an industry perspective

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The logo for the Seabed User & Developer Group is located in the bottom right corner. It consists of a blue square background. On the left side of the square is a white icon of a hand holding a globe. To the right of the icon, the text 'Seabed User' is written in a white, sans-serif font, with '& DEVELOPER GROUP' written in a smaller, white, sans-serif font below it.

**Seabed User
& DEVELOPER GROUP**

Seabed User & Developer Group



- Loose affiliation of common interests
- Participants all pursuing sustainable development
- All marine but with coastal and terrestrial links



Oil & Gas

Ports

Recreational boating

Carbon capture

Renewable energy

Aggregates

Submarine cables





Current situation

- SUDG industries make a significant contribution to the UK economy
- Environment needs protecting and improving – an essential aspect of planning marine activity and development
- Extensive experience of working with legislation, and regulators

Value of key sectors

Sector	GVA (£m) ⁱ	Change (%) ⁱⁱ
Minerals	247	5
Oil and gas	23516	-18
Offshore wind	3411	10.7
Wave and tidal	267	6.9
Ports	23810	1
Recreational boating	4720	- 2.4

**3.2% of
total GVA
UK**

i. Direct + indirect + induced

ii. Average growth per annum over last 5 or 7 years (depending on sector)

Number of jobs in key sectors



Sector	Number of jobs ⁱ
Minerals	1791
Oil and gas	280000
Offshore wind	30500
Wave and tidal	3242
Ports	690000
Recreational boating	142824

Total number of jobs = 1,154,000

i. Direct + indirect + induced

Future goals for economy and environment

- Need for economic growth to meet UK targets for energy, climate change etc, but also...
- Need to adapt to climate change
- Changes in environmental regulation
 - 25 year Environment Plan, net gain and natural capital
- Better alignment of socio-economic targets to parallel environmental targets?



Current approaches from SUDG: environmental:



- Working with conservation NGOs and regulators
 - Shared objectives
 - Development of agreed good practices
 - Joint working
- Better ways to comply with legislation
 - Better regulation
 - Link compensation to site management
 - Ecosystem and natural capital



Current approaches from SUDG: socio-economic:



Updating information on:

- Economic value to UK economy
- Value to societal well-being
- Benefits of sustainable development
- Positive and negative impacts on natural capital assets



Future trends in sector activity

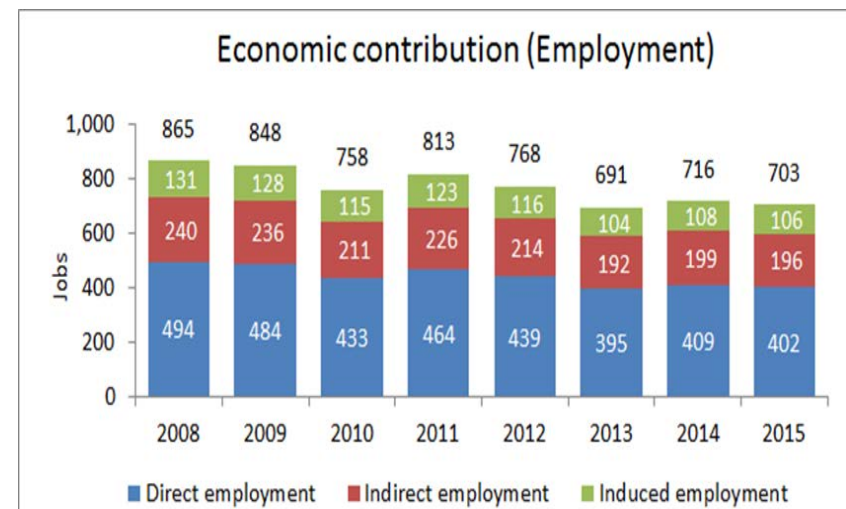
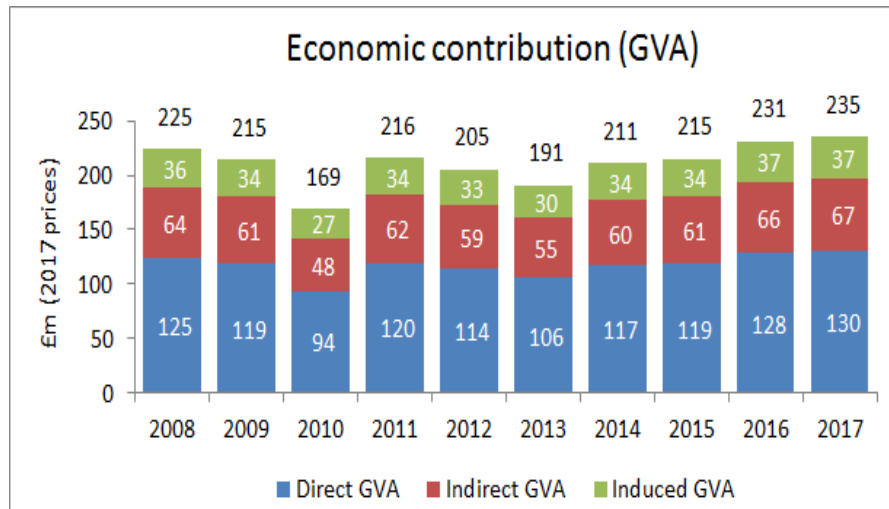
- Three scenarios
 - Business as Usual
 - Nature at Work
 - Local Stewardship
- Approach
 - Identify key drivers of sector activity
 - Relative influence of drivers under scenarios
 - Indicative projections about future sector growth



Mineral extraction: economic value



- Recovery since economic downturn
- £34m of capital investment over ten years to 2015

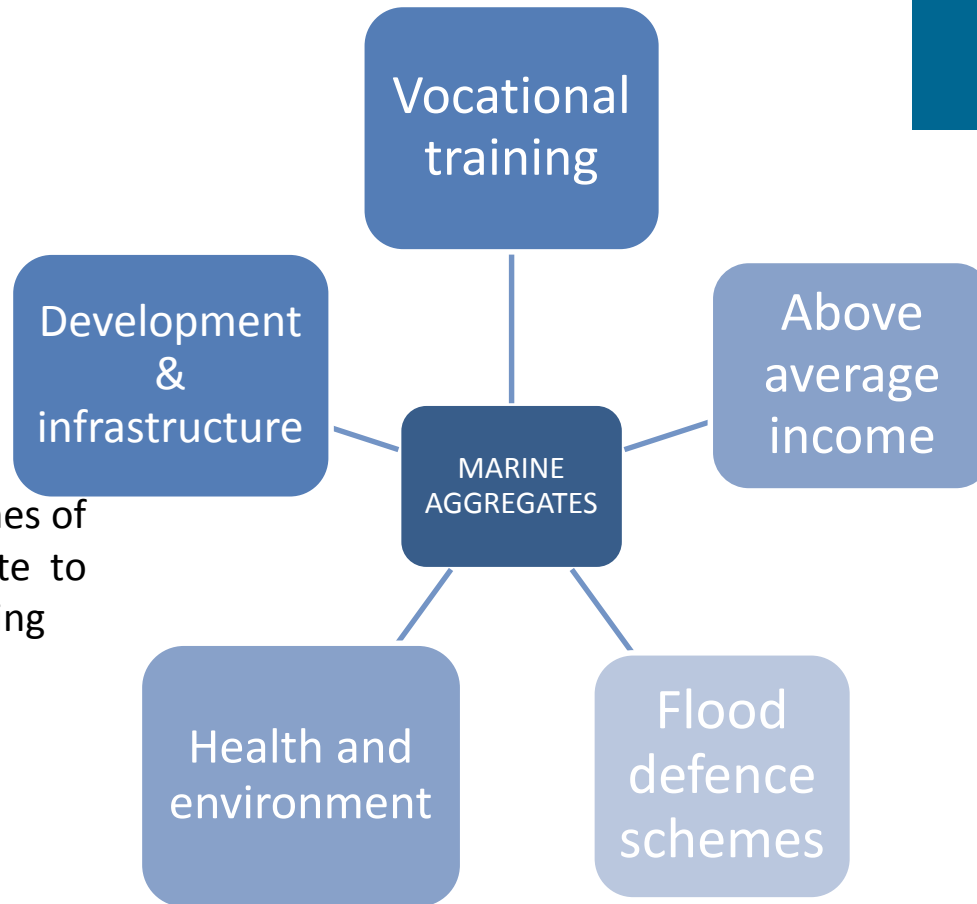


Socio-economics – Mineral extraction social value

Examples:

- 2012 London Olympic site,
- Heathrow Terminal 5,
- Crossrail,
- Cardiff Bay Barrage,

Barges carry 18,000 tonnes of marine-dredged aggregate to London every day replacing 900 lorry movements.



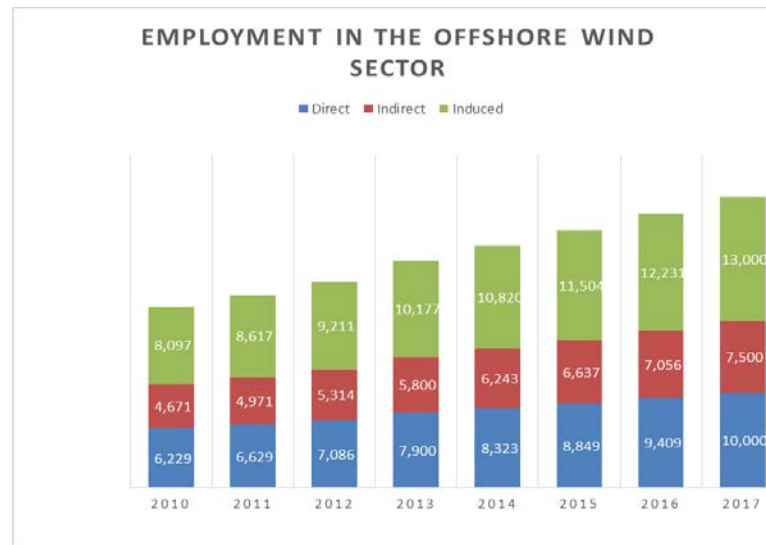
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Lincshire is the largest beach nourishment scheme in the country protecting beaches and property from Mablethorpe to Skegness. value of £3bn

Marine aggregates: future scenarios

	Business as Usual	Nature at Work	Local Stewardship
Key drivers	<ul style="list-style-type: none"> Construction demand Climate change 	<ul style="list-style-type: none"> Construction demand Climate change 	<ul style="list-style-type: none"> Construction demand Climate change
Growth	<p>In line with OBR growth projections</p> <p>80% land sand and gravel / 20% marine sand and gravel</p>	<p>> BAU</p> <p>National infrastructure projects (e.g. nuclear)</p> <p>Increased beach recharge</p> <p>Increased contribution of marine sourced aggregates</p>	<p>> BAU</p> <p>Local infrastructure/energy projects (e.g. tidal lagoon)</p> <p>Increased beach recharge</p> <p>Increased marine sourced aggregates</p>

Socio-economics – Offshore wind economic value

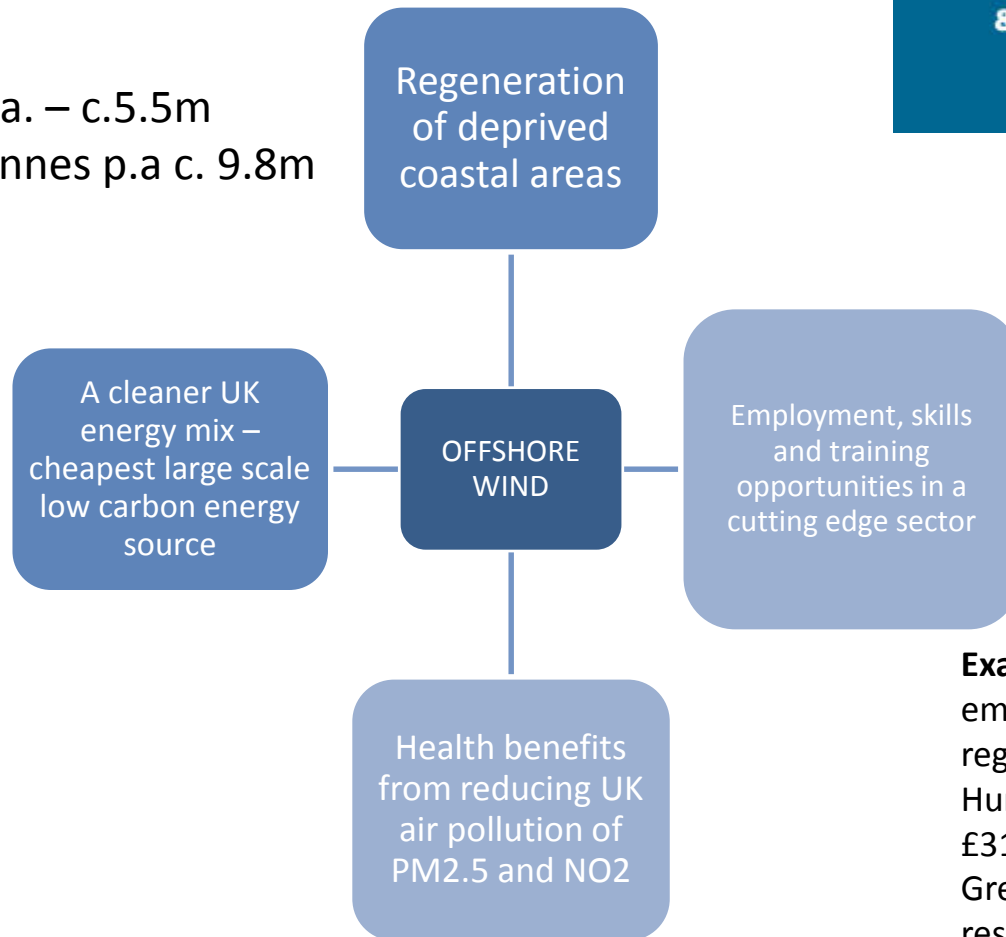


Offshore wind in the UK – Estimated Direct, Indirect and Induced GVA (£m)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
Direct	672	790	862	937	1,019	1,118
Indirect	504	580	646	703	764	839
Induced	874	1,018	1,120	1,218	1,325	1,454
Total	2,050	2,388	2,628	2,859	3,109	3,411

Socio-economics – Offshore wind social value

Homes powered p.a. – c.5.5m
CO2 reduction – tonnes p.a c. 9.8m



Examples:
employment and regeneration on the Humber
£310m investment in Green Port Hull facility, resulting in the creation of ~1000 jobs in the UK

Offshore wind energy

	Business as Usual	Nature at Work	Local Stewardship
Key drivers	<ul style="list-style-type: none"> ▪ Climate change ▪ Policy ▪ Energy security ▪ Restrictions on other sectors ▪ Availability future lease areas ▪ Technology 	As per BAU	As per BAU
Growth	<p>All planned projects progressed</p> <p>Additional capacity via deep water areas and new lease areas</p> <p>35 GW operating capacity by 2038</p>	<p>Technology enables development in previously unsuitable areas</p> <p>45 GW by 2038</p>	<p>Onshore community renewables reduce demand for OWFs</p> <p>30 GW by 2038</p>

Marine industries and planning:- marine planning



Terrestrial plans:-

- Create context for development
- Nationally regionally and locally
- Planning policies provide guidance for planning work
 - Critical for (Imperative Reasons for Overriding Public Interest) IROPI

Marine plans:-

Still evolving

No single view from industry – so:-

Marine plans can be seen as

- providing planning guidance
- seen as restriction

However.....

- Sustainable development and Blue Growth is critical to UK economy
- Environment needs protecting and improving
- Coastal areas and communities highlighted as requiring investment



So – can Marine Plans help?

Marine planning process



- Plan development has been highly inclusive
 - A voice for all interests
 - Recognition that we have all been learning as we go
- Evolved through consultation
 - The objectives of marine planning
 - The language of planning
- Planning and licensing
 - Plan led decision making – ‘work in progress’

Marine plan benefits



- Plans set out the importance of industry sectors – nationally and regionally/locally
- Plans can create links with UK policies
 - Energy, transport, environment, growth
- Plans should create a planning context for development
 - Parallels with terrestrial plans

Marine plan benefits



- Plans may assist in planning locations for future development and the likelihood of success
- Plans help identify alternative uses and pressures
- Plans can help in examining co-location issues and opportunities as well as possible conflicts.

But....

- Different sectors need to respond to change:
 - Markets
 - Opportunities
 - Competition
 - Policy
 - Regulation

So marine plans need to ensure flexibility as well as provide guidance



Marine planning and the future



- Growth scenarios – future proofing
- New sectors
- Need for flexibility not constraint
- Better marine management – linking licensing to planning
- The language of planning
- Plans as living/evolving documents growing in importance as time goes on.

Marine planning and the future: coastal concordat



regulators working together

- are there historic issues of compliance?
- should concordat create better linkage between licensing and terrestrial and marine planning
- working group looking at this

Links to planning?

Marine planning and the future: net gain

2. Intertidal Environmental Net Gain

- Town and Country Planning Act
- Will link to the Environment Bill
- Within NPPF it is completely legitimate for Local Authorities to mandate for net gain

Links to planning?



Conclusions



- Marine industries are critical to UK economy
- Working with environment and environmental organisations is essential
- There are clear links to planning – marine and terrestrial
- Planning can assist in developing new opportunities
- Planning should assist in delivering licences
- Planning can be a key part of protecting future growth