



The Reality of Environmental Compliance

A Tidal Perspective

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openhydro
tidal technology

Agenda

1. Tidal Energy
2. Technology Development
3. A Tidal Energy Project
4. Regulation and consenting
5. Understanding the baseline
6. Monitoring
7. Future Needs

Tidal Energy

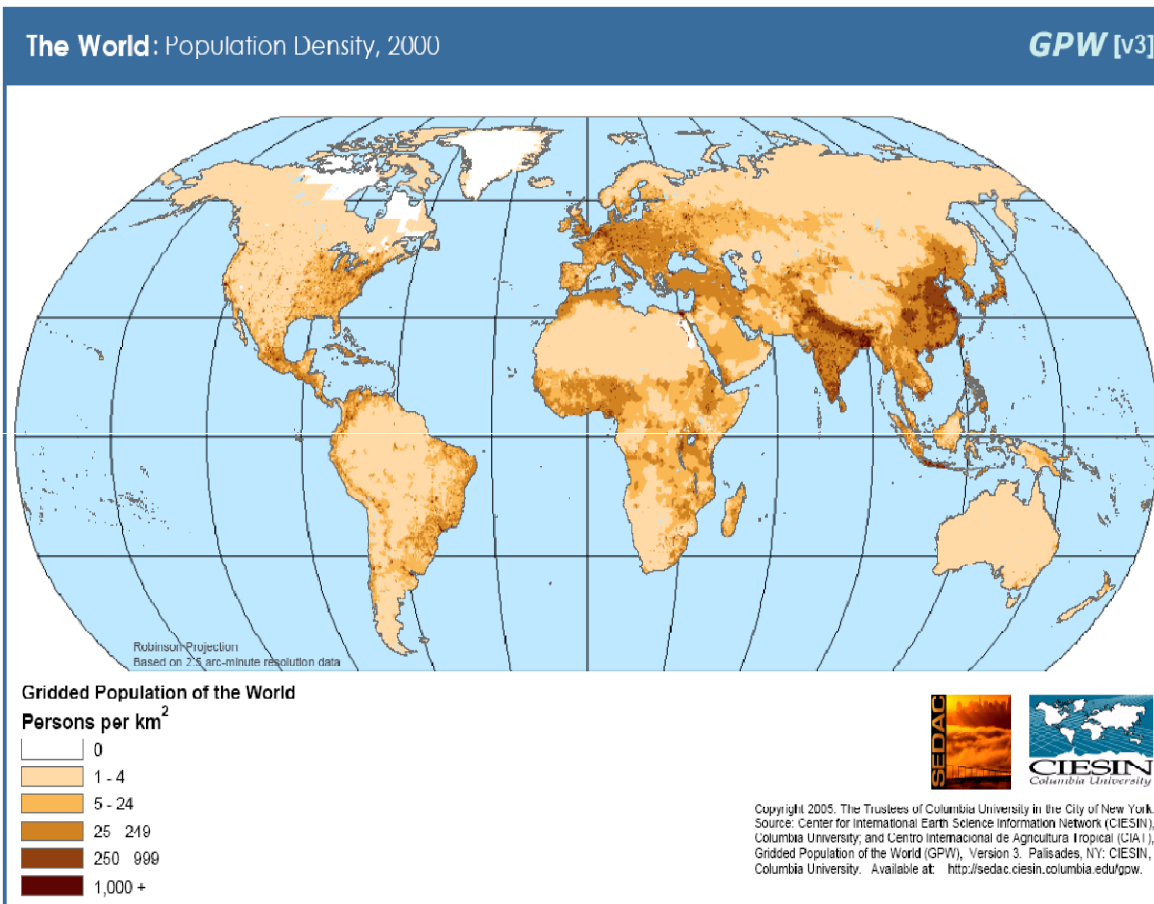
Why Tidal



	Predictability	Energy Density	No Visual / Noise Impact
Tidal	✓	✓	✓
Wave	-	✓	-
Wind	-	-	-
Bio Fuels	✓	-	-
Solar	-	-	-

Tidal Energy

Global Tidal Stream Resource



Opportunity

- 50TWh resources identified in Irish and UK waters
- 19.6TWh resources identified in US waters
- Potential for resource use, creation of an industry and economic gain HUGE

- An industry estimated to be worth €128bn in equipment sales.

Tidal Energy

Global Resource



Tidal Resource Assessment

OECD	Scale
Canada	Tier 1
UK	Tier 1
US	Tier 1
Japan	Tier 1
France	Tier 1
New Zealand	Tier 2
Australia	Tier 2
Falklands	Tier 3
Korea	Tier 3
Singapore	Tier 3
Ireland	Tier 3

TRANSITION	
China	Tier 1
India	Tier 2
Indonesia	Tier 2
Philippines	Tier 2
Brazil	Tier 2
Russia	Tier 3

DEVELOPING	
Guyana	Tier 2
Bangladesh	Tier 2
New Guinea	Tier 2
Burma	Tier 2
Tanzania	Tier 2

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Tidal Technology

European Marine Energy Centre (EMEC)

- Created by the UK & EU to support the Tidal & Wave industry; accredited marine laboratory.
- Global reputation as the centre for marine renewables.
- No 'soft option' with some of Europe's strongest tides

