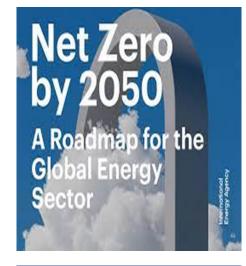
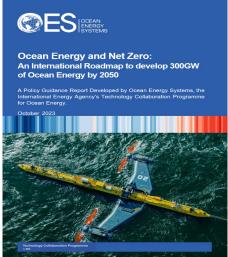


OCEAN ENERGY:

A Net Zero Roadmap for 2050

Henry Jeffrey



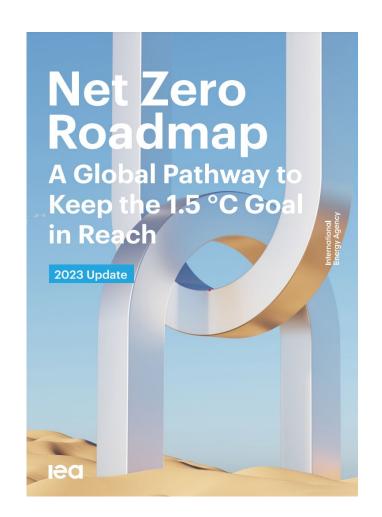


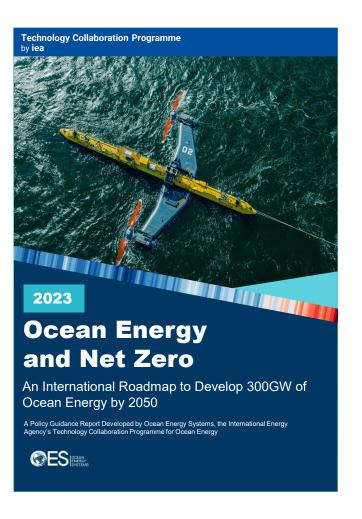
Ocean Energy at an International Level



 The IEA net zero roadmap update published in September 2023

 The IEA-OES Roadmap is intended to present a pathway through with ocean energy technology can contribute to achieving Net Zero



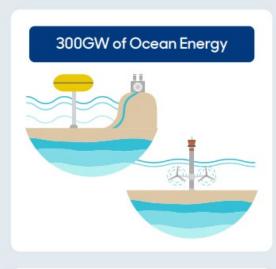


IEA-OES Roadmap Targets



Sector Targets

- 1. Installed Capacity (GW)
- 2. Direct Jobs
- 3. Investment in 2050 year/Gross Value Added (GVA US\$)
- 4. Carbon Savings (Tonnes of CO2)









Policy Action Areas



- Market pull mechanisms to fund deployment
- Technology Research & Innovation programmes
- Infrastructure Ports and harbours
- Regulation and legislation



Technology Push & Market Pull – Policy Action



"Market pull support is the foundation of a comprehensive policy plan"

 Led at a country-by-country level, the immediate application of a long-term and sustained market pull policy mechanism is key to strengthening and accelerating deployments in the ocean energy sector

"Accelerated Research and innovation is key"

 A well-funded and comprehensive technology push policy programme, actively pursuing international collaboration, is vital to ensuring that technological innovation occurs at a significant rate and helps to lower the overall investment required to provide a long-term market support mechanism



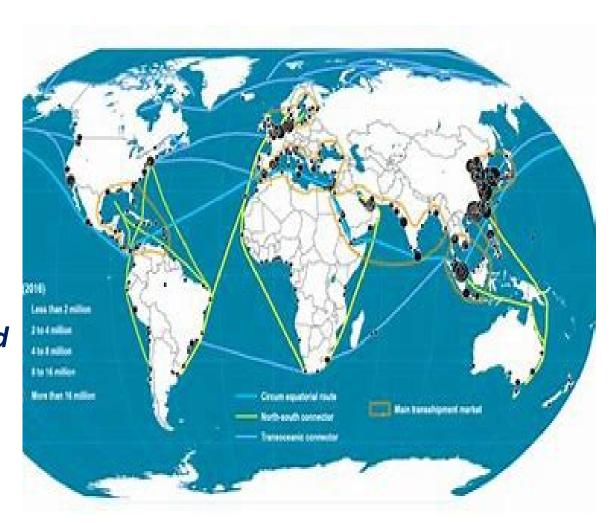


Infrastructure Policy Action

- Case Study: 300MW/Year Future Port
- 100 Ports Globally

"A proactive approach to infrastructure development is required"

 While existing infrastructure is well-positioned to handle the short-term requirements of the sector, the rapid expected growth will require large-scale global infrastructure development projects to begin immediately

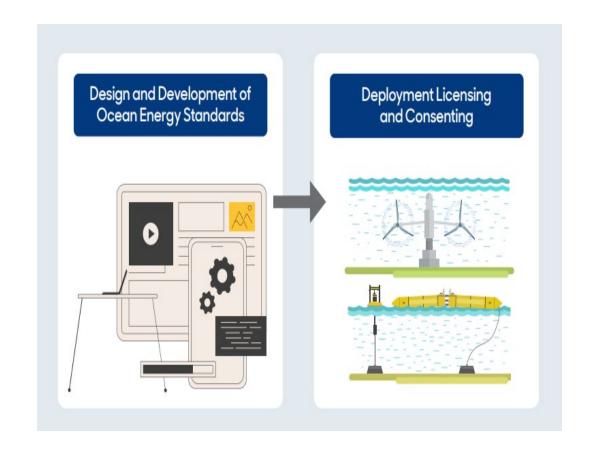




Regulation & Legislation : Policy Actions

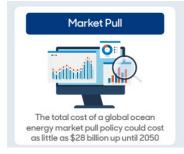
"The regulatory and legislative framework should help, not hinder"

 The ocean energy sector should be underpinned by a robust and efficient regulatory and legislative framework that provides the levels of support required to ensure that sector growth happens in line with forecasted timelines



Summary: Policy Recommendations











Market pull support is the foundation of a comprehensive policy plan

 Led at a country-by-country level, the immediate application of a long-term and sustained market pull policy mechanism is key

Accelerated Research innovation is key

 A well-funded and comprehensive technology push policy programme, actively pursuing international collaboration

A proactive approach to infrastructure development is required

 Sector growth will require large-scale global infrastructure development projects to begin immediately

The regulatory and legislative framework should help, not hinder



OCEAN ENERGY: A Net Zero Roadmap for 2050

