

### **Headline findings**

- The market is expected to gain significant traction this decade and rapidly ramp up until 2050.
- Ocean energy technologies are in very different technology readiness and deployment stages. To date, 98% **(521.5 MW)** of deployed ocean energy is based on the tidal range technology.
- The EU is leading the development of ocean energy with **41%** of tidal stream developers with technology readiness level above five in the EU.

## Key (competitiveness) challenges for Ocean Energy

# Challenge 1

Key inputs such as rare earth elements are subject to high supply risk.

# Challenge 2

Long permitting processes and a scarcity of financing present challenges for development of the technology.

### Challenge 3

This sector still lacks maturity, and many projects are in their pilot stages.

## **Key policy recommendations**

### **Recommendation 1**

Creating technology-specific auctions can enable the roll-out of commercial devices and, in turn, reduce the levelised cost of energy from this technology.





#### **Recommendation 2**

Sharing infrastructure with other renewable installations such as offshore wind can help to boost ocean energy development.

#### **Recommendation 3**

Streamline permitting processes and improve availability of financing.



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