



EU offshore renewable energy strategy

WCEF Side event: Circular Design for the Sustainability of the Offshore Renewable Energy Sector – 22 June 2021

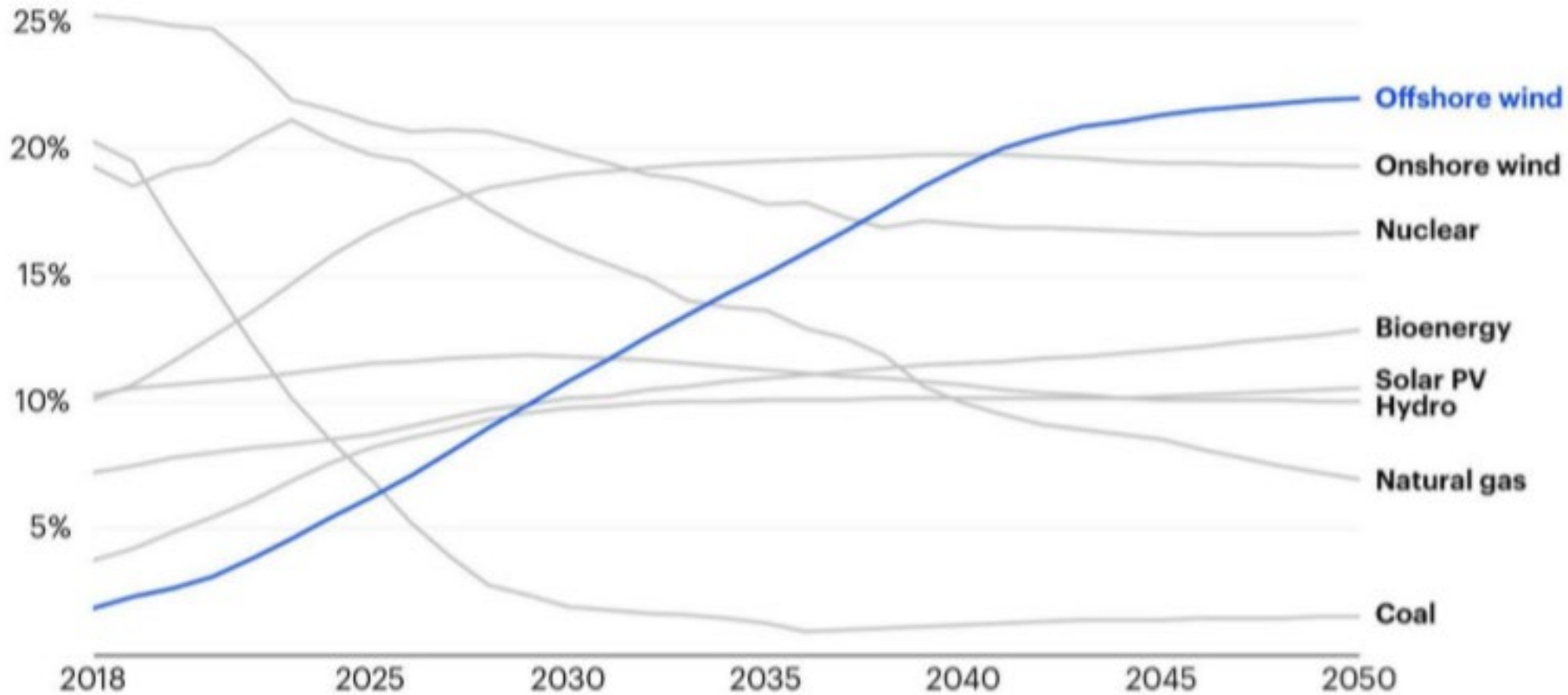
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Maritime Affairs and Fisheries



Why offshore renewable energy?

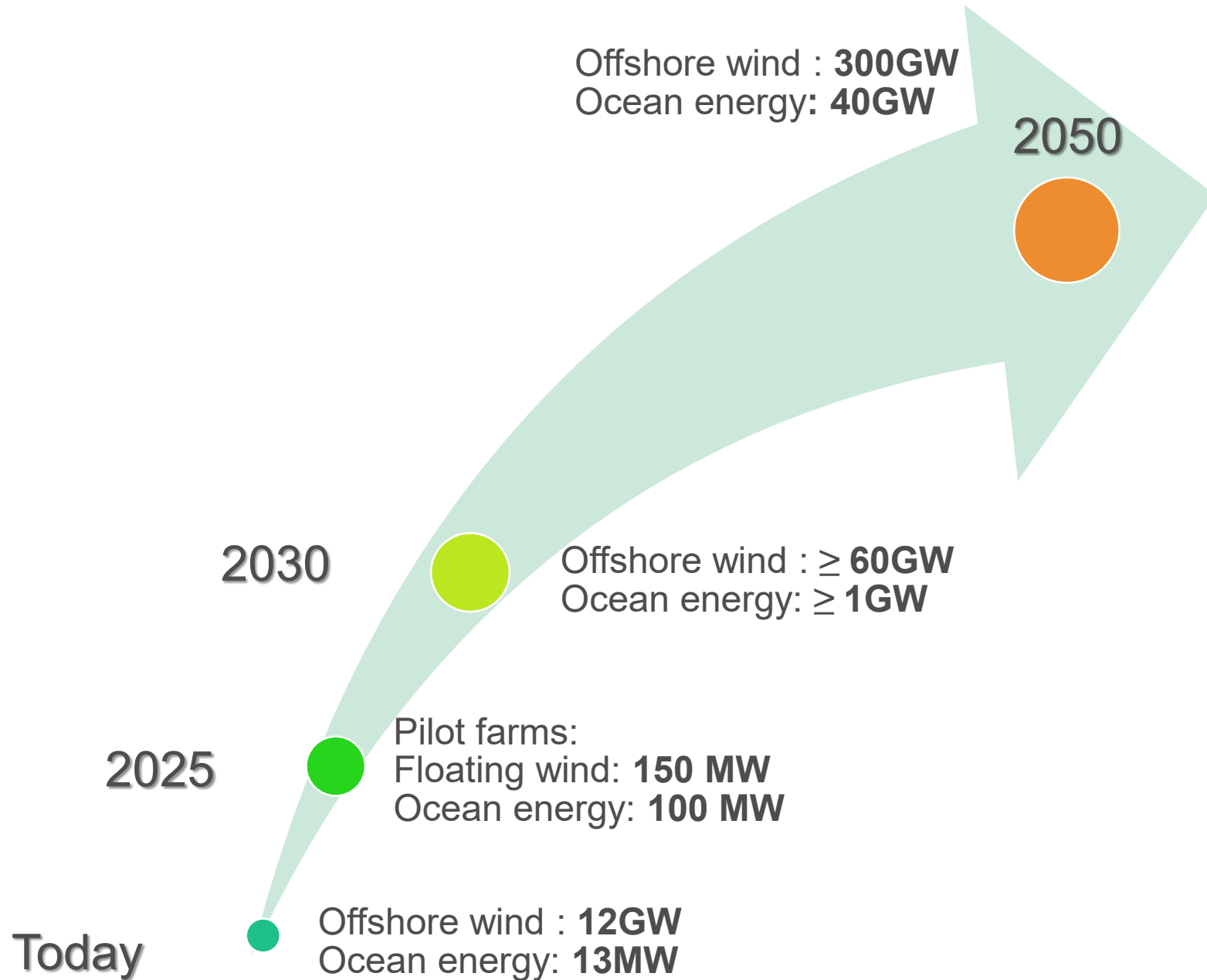
Shares of electricity generation by technology in the EU, Sustainable Development Scenario
Offshore Wind Outlook 2019



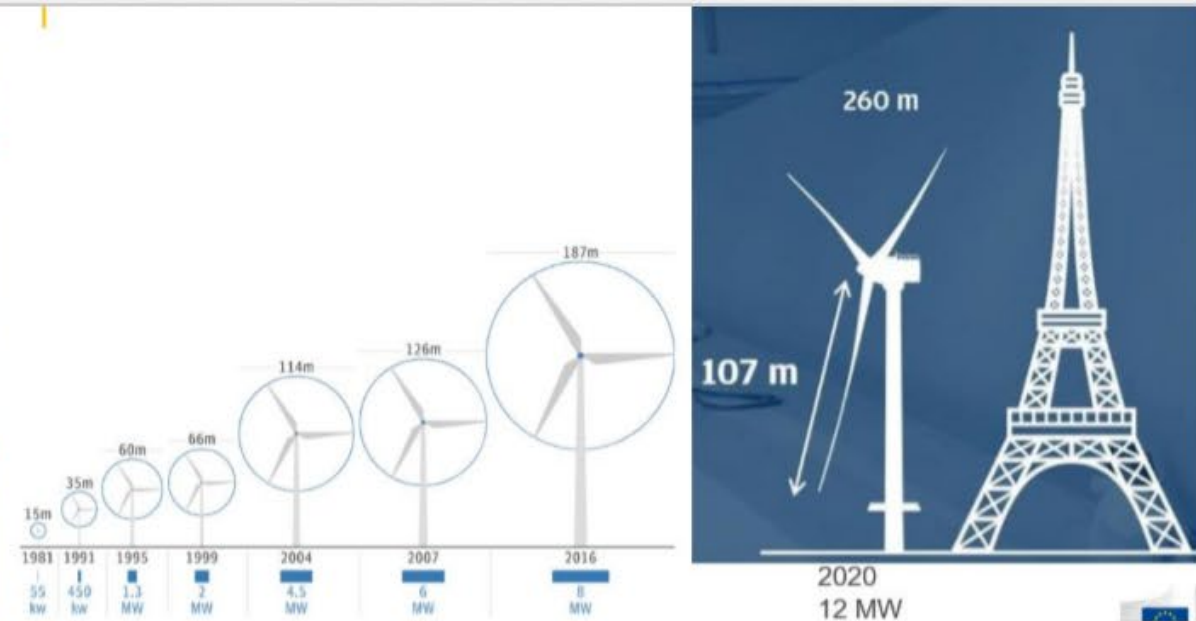
Several technologies that are complementary and at different stages of maturity



The EU offshore strategy: a step-change



Industrial dimension: infrastructure and supply-chain



Circularity and offshore renewables

- Applying circular economy approaches to the life cycle of installations:
 - ⇒ reducing the environmental impacts of offshore technologies
 - ⇒ mitigating increased dependencies, critical raw material substitution
- Current R&I priorities in offshore wind: optimisation of existing manufacturing processes, infrastructure development, circular advanced materials and digitalisation.
- Harmonising technical standards
- Research on recyclability and the impact on design is still rather fragmented
 - ⇒ systematically integrate the principle of ‘circularity by design’ into renewables research & innovation.