



## OFFSHORE WIND AND OCEAN ENERGIES

Renewable energies

Offshore wind and ocean energies



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### OVERVIEW AND CHALLENGES

Several development levers for ocean renewable energies in France:

- objective set by the public authorities = 6 GW of installed capacity for offshore wind energy by 2020,
- strong State support: funding via calls for projects, pilot farms,
- installations gathering pace, encouraged, in particular, by substantial cost reductions in Europe (14.4 GW installed at the end of 2016, with an objective of 30 GW by 2020).

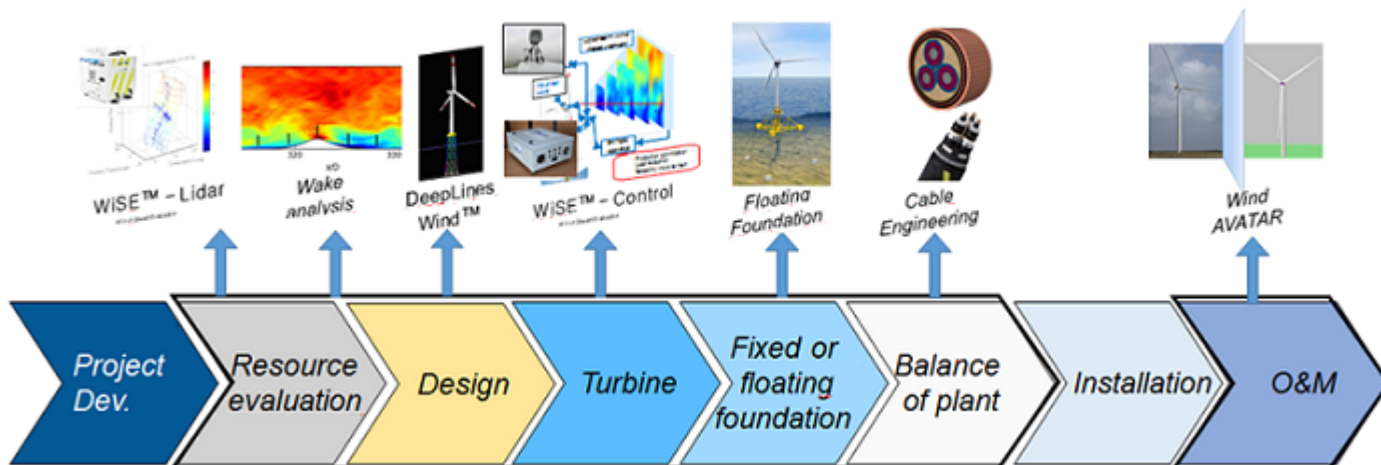
Multiple challenges for the large-scale roll-out of ocean renewable energies (OREs):

- considerable reduction in cost/kWh,
- technological innovations,
- consultation with users to ensure the social acceptance of projects.

*Drawing on its design and simulation expertise accumulated in the offshore oil sector and its control expertise built up in the vehicle sector, IFPEN is positioned in several segments*

of the ocean renewable energy value chain:

- offshore wind turbine technology and the associated dimensioning tools,
- the development of efficient control systems for wave energy conversion systems.



IFPEN's objective is to help make electricity generated by floating offshore wind power technology competitive compared to fixed wind power technology by 2030.

Developing innovative technological solutions to reduce ORE-based electricity production costs and support the development of a new industrial sector for the energy transition.

Our solutions

Our networks

Our strengths

## CONTACT



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