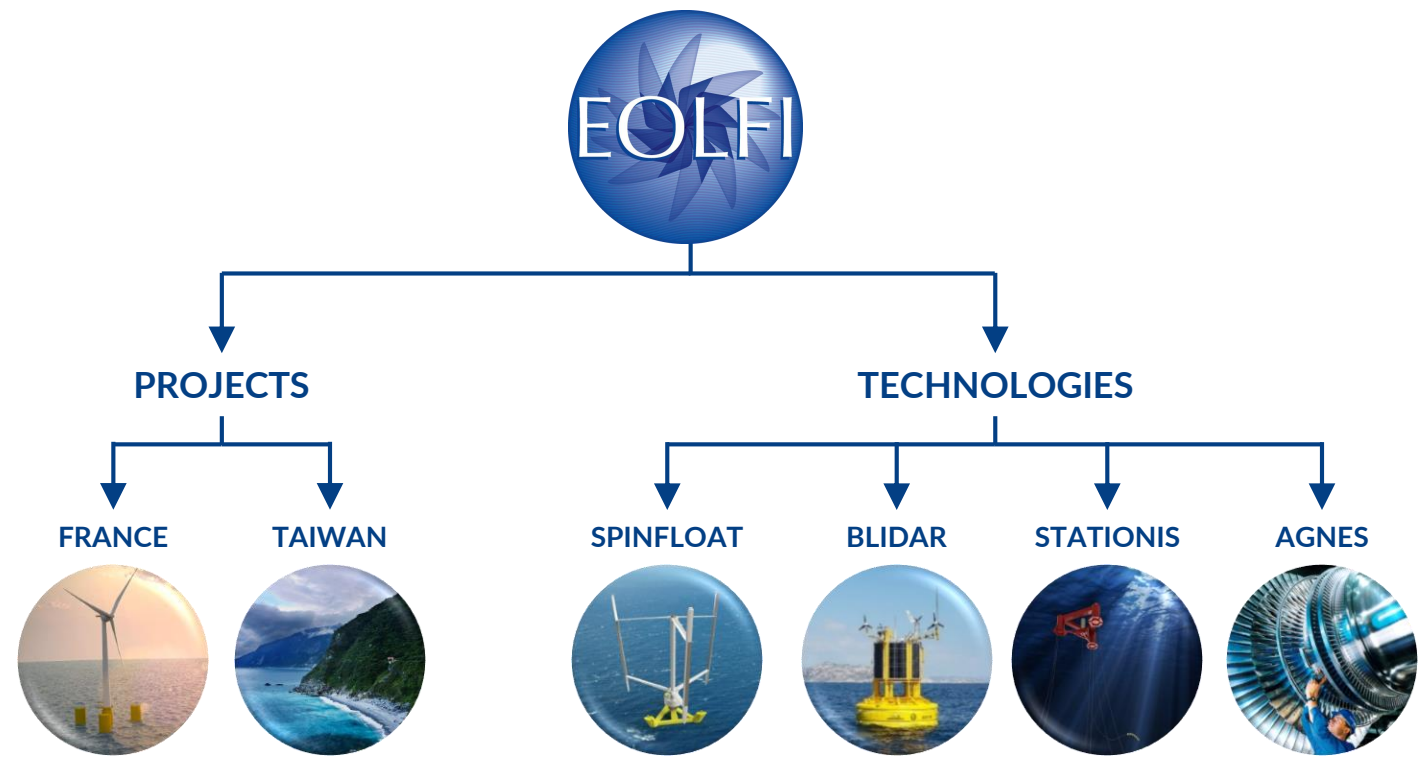




DEVELOPING FLOATING WIND POWER PROJECTS

PIONEERING FLOATING OFFSHORE WIND SINCE 2012

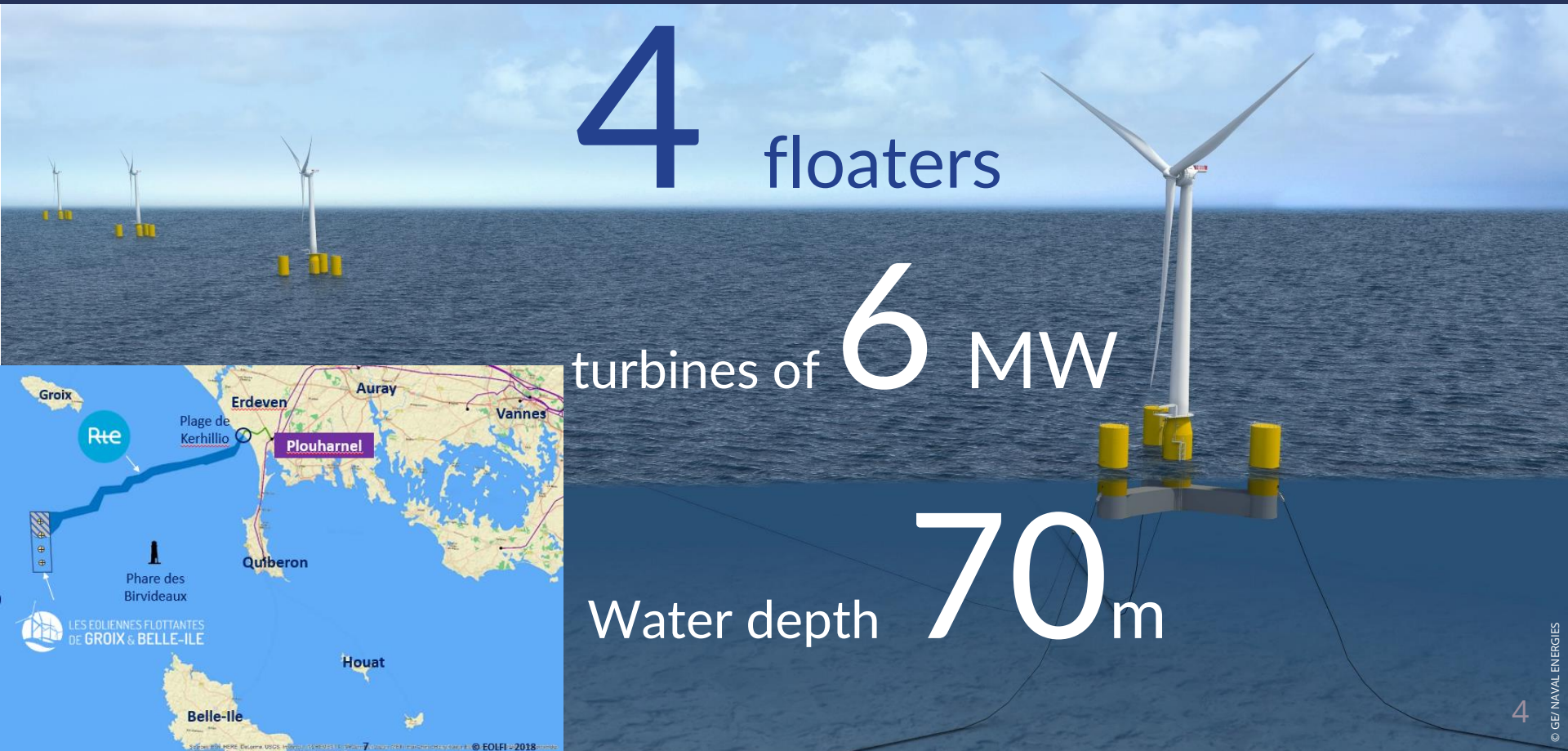




Groix & Belle-Ile

First oceanic floating wind farm in France

GROIX & BELLE-ILE FLOATING WIND FARM



4 floaters

turbines of 6 MW

Water depth 70 m



GROIX & BELLE-ILE SUPPLY CHAIN



OWNERS



PARTNERS



THE INDUSTRY IS READY FOR THE 1ST COMMERCIAL TENDER IN 2019



1. The technology:

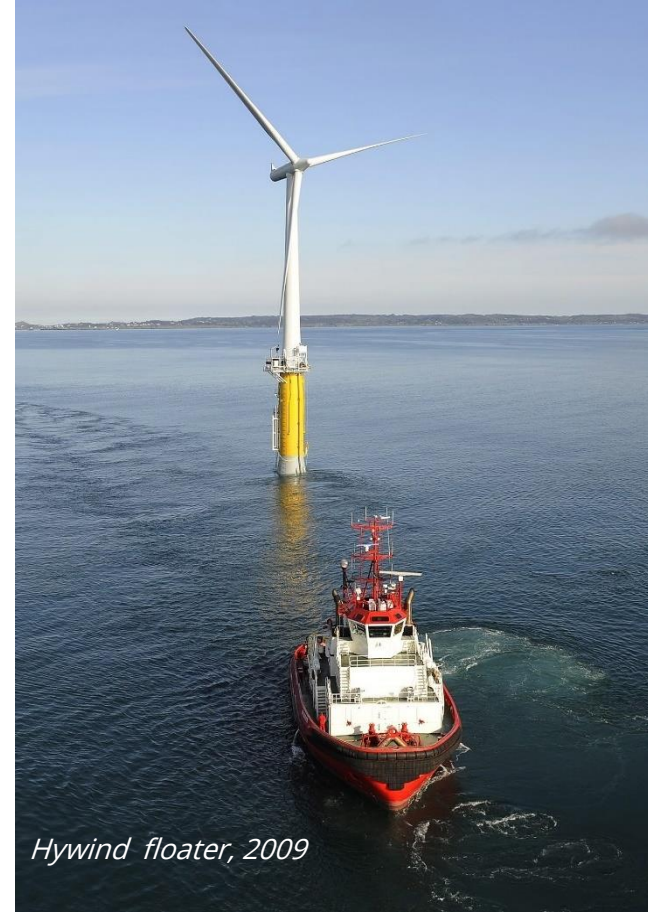
- Floating wind : a technological breakthrough proven since 2009
- Pre-commercial farms : more than 10 farms underway globally

2. The market:

- A global market with **54 GW** operational or in building in 2030
- In France, a potential of **16 GW** within 2040, equivalent of **8 nuclear reactors** in terms of production of electricity
- France, first commercial tender ahead, a front runner in this global race

3. The costs:

- Floating benefits from the experience of bottom fixed (permitting, turbines, O&M...)
- Target price : **80 €/MWh** in 2030



Hywind floater, 2009



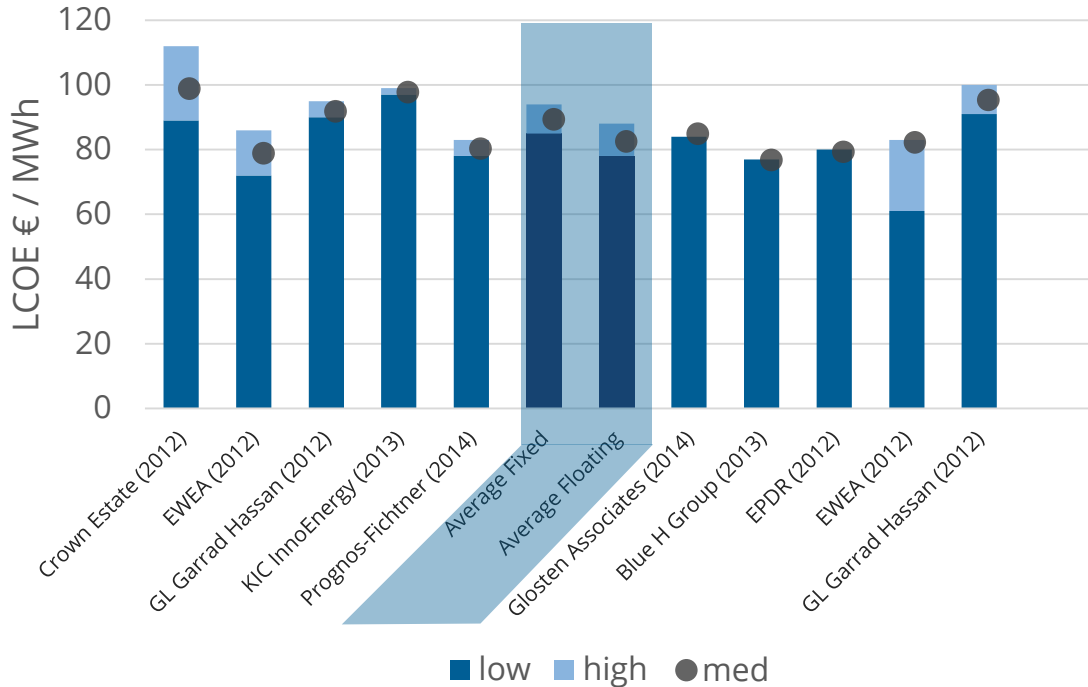
LCOE

Levelized Cost Of Energy

FLOATING IS A COST-COMPETITIVE SOLUTION



fixed versus floating foundations

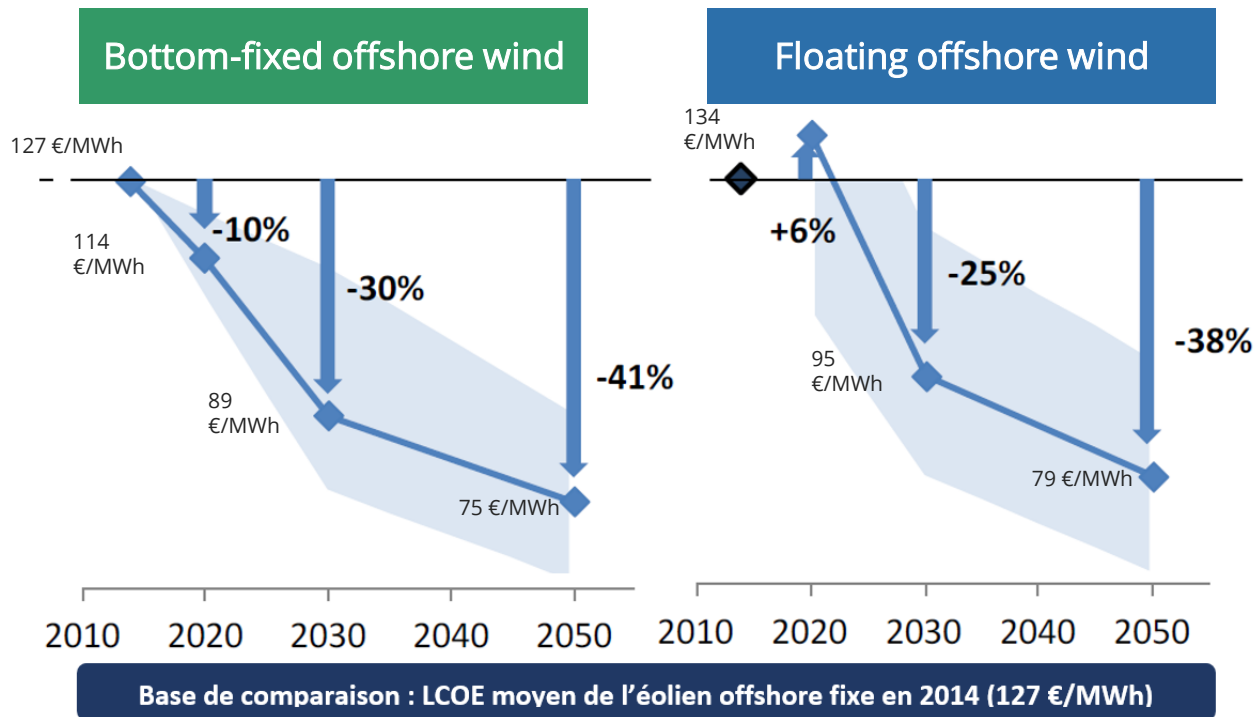


80 €/MWh

LCOE : forecast for commercial farms in 2030

Source: Carbon Trust

INDUSTRY CONSENSUS TARGET: 80€/MWh FOR FLOATING



Source : IEA Wind 2016

* Les lignes / marqueurs indiquent la réponse médiane des experts

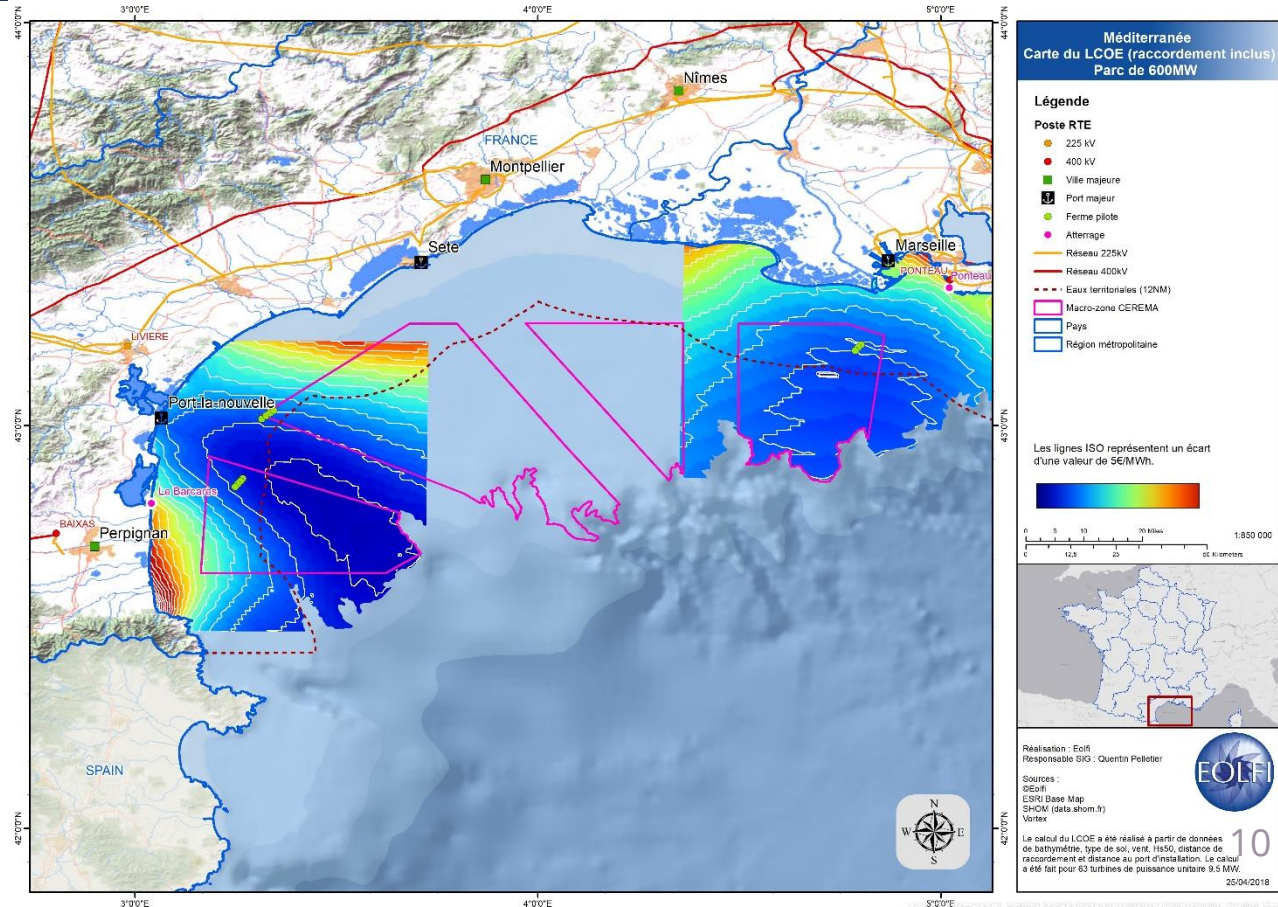
** Les zones ombragées montrent la gamme des réponses d'experts du 25e au 75e percentile

OPTIMIZED LCOE / E.G. MEDITERRANEAN ZONE



EOLFI projects are located where floating wind can reach the lowest LCOE, as a result of :

- Wind resources
- Grid connection costs
- Distance to harbors
- Water depth



THANK YOU!



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