



PROJET EFGL

Séminaire N2000

13 mars 2024

WHO WE ARE?

Ocean Winds (OW) is an international company dedicated to **offshore wind** energy and created as a 50-50 joint venture, owned by **EDP Renewables** and **ENGIE**. Based on our belief that offshore wind energy **is an essential part of the global energy transition**, we develop, finance, build and operate offshore wind farm project all around the world.

1.5 GW

Operation

1.9 GW

Under construction

13.2 GW

In Development

Considering 100% of offshore wind farm projects

OW, headquartered in Madrid, **is currently present in seven countries**, and primarily targets markets in Europe, the United States, selected parts of Asia, and Brazil.

More information: www.oceanwinds.com

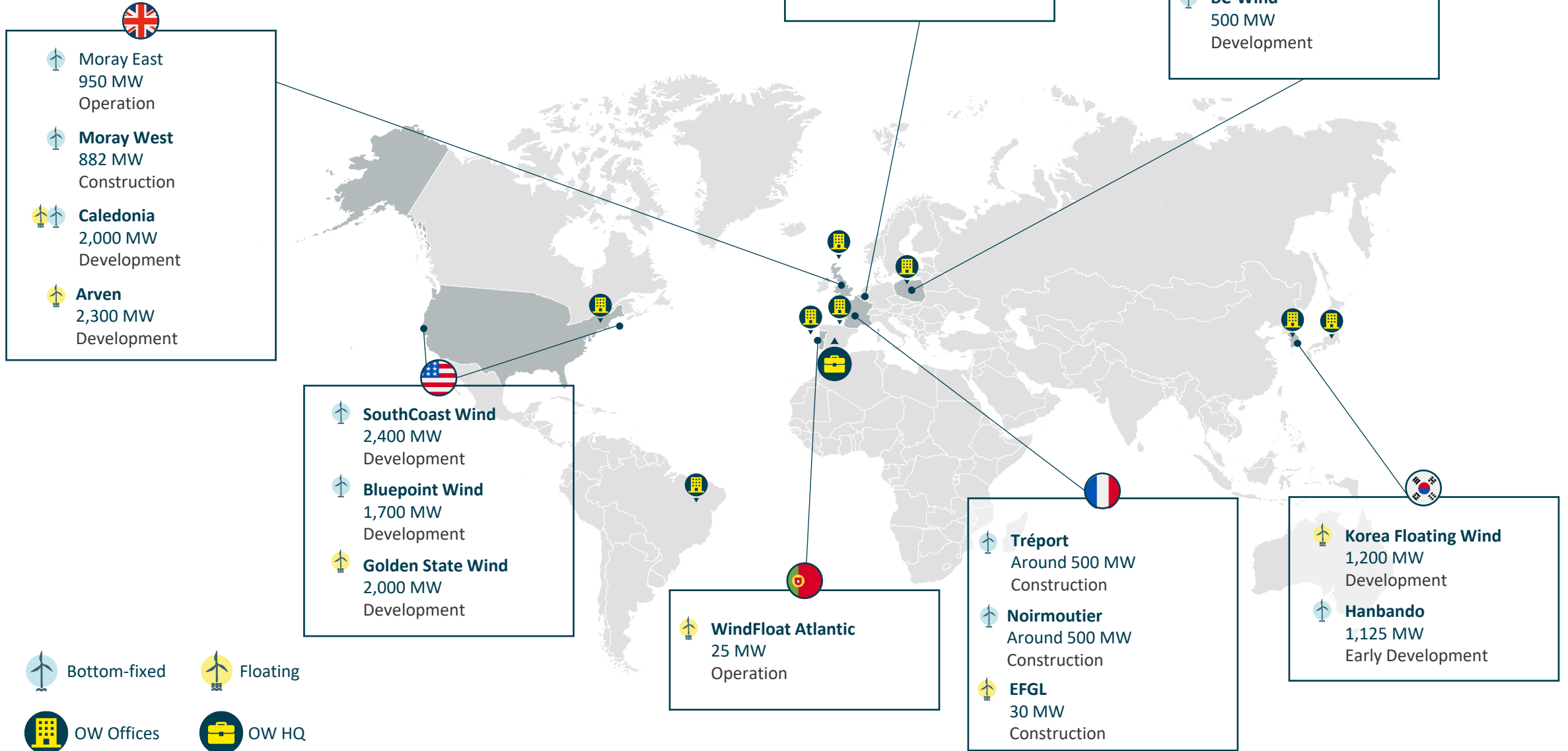


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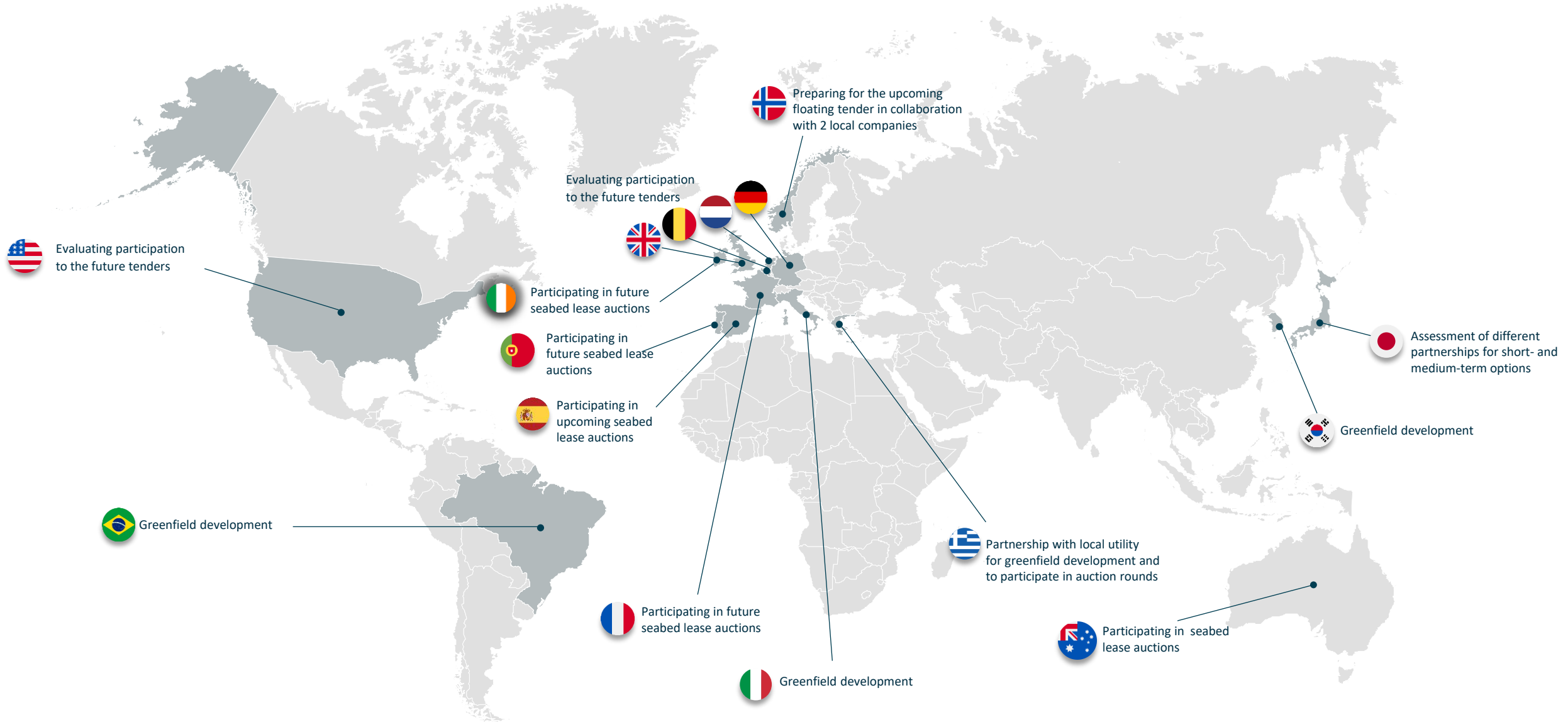
OUR GLOBAL FOOTPRINT

Consists of around 17 GW (gross) with 15 projects in 7 geographies.



WE EXPAND

OW will expand its footprint in its current markets while exploring entry into new markets



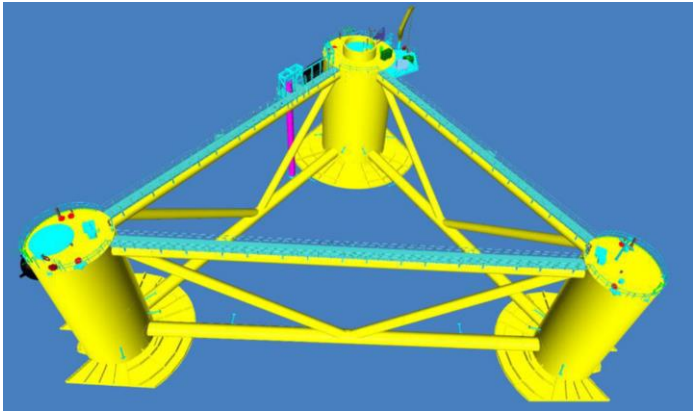
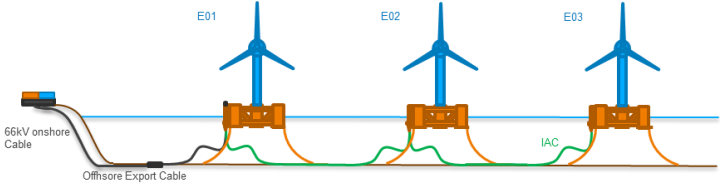
EFGL Project : Main highlights



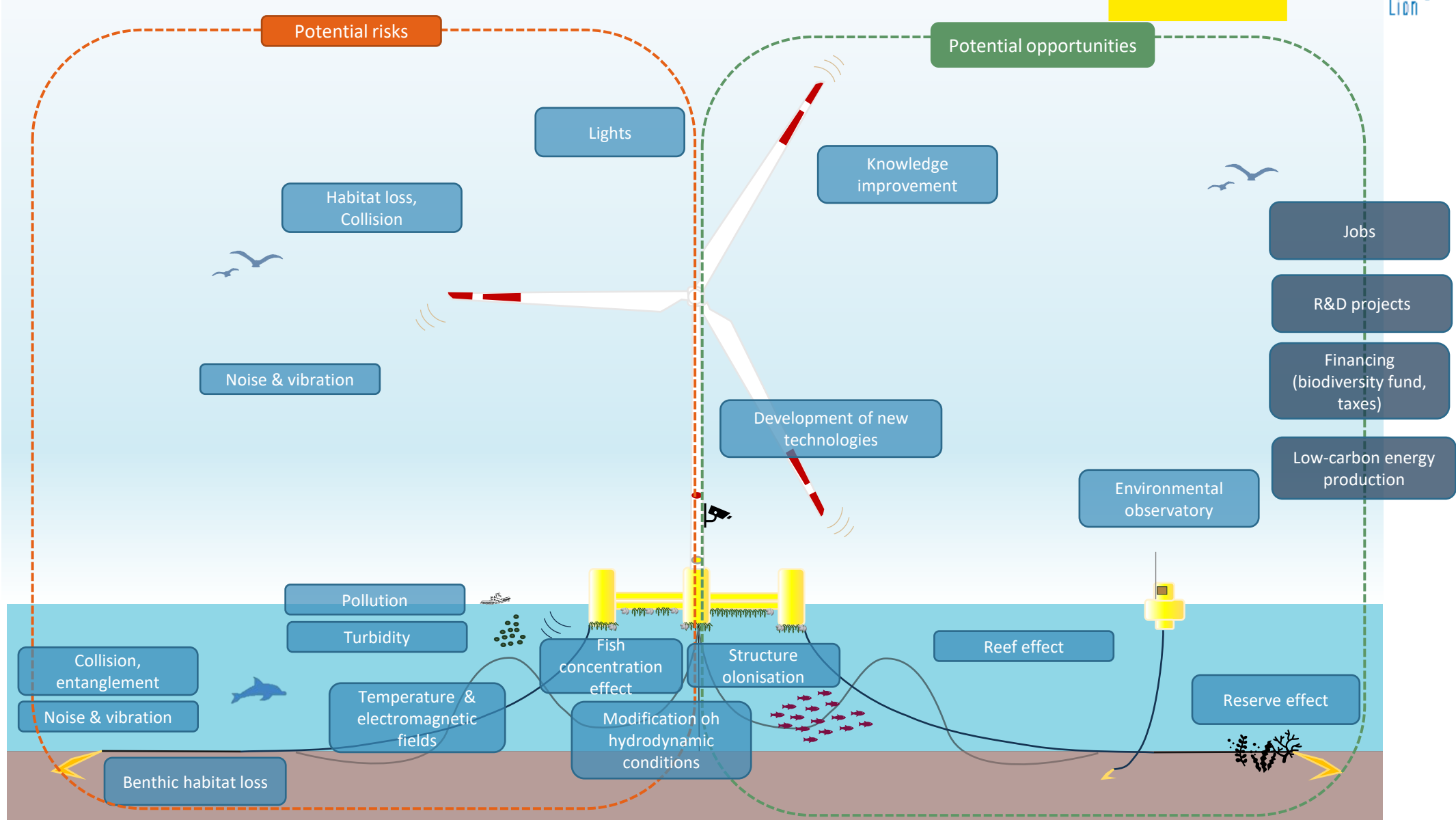
- **Pre-commercial project**, awarded after a call for project from French Government
- **Strong and proven partnership** OW and CDC, being partner in other French Bottom Fixed Offshore Wind projects
- **Off Leucate – Le Barcares** (French Mediterranean sea), in the perimeter of the **Golfe of Lion Marine natural park**
- **3 off Vestas 164 10MW Turbines - 30 MW total power**
- **WindFloat Floating foundation – Grid connected 66kV**
- **16 to 18 km offshore** (8.6 to 9.7 nautical miles), **≈ 70 m water depth**, **strong wind (~10 m/s)**
- **Planned COD : 2025 and lifetime ≥ 20 yrs**



Construction progress



Environmental issues in an Offshore wind farm



- ✓ **Strong collaboration since 2016 with the Golfe of Lion Marine Natural Park members :**
 - Definition of a low impact project area
 - Co-realization of the EIA (site characterization, impact assessment, mitigation measures definition ...)
 - Sharing of data, which is lacking in the Mediterranean sea
- ✓ **Setting-up of a Monitoring Committee** in 2021 with local qualified stakeholders: more than 20 monitorings will be managed and results shared with said Committee



ERC approach

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1 Éviter

Avoid the impact at the design stage

2 Réduire

Reducing the impact

3 Compenser

Aims to preserve the initial quality of the environment (in terms of ecological services, biodiversity, functionality, etc.), for example by implementing measures to safeguard species or natural environments.

Examples:

- Limited number of WTG
- Reduce lighting as much as possible during installation works and during exploitation phase
- Set up deterrent devices to keep birds away
- Tension cables to reduce the resting effect

Examples:

- Carry out campaigns to neutralise Puffin pests in Porquerolles island
- Creating new nesting sites for laro-limicoles



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EFGL environmental monitoring instrumentation



-  R32 – Bird Wires
-  SC5 – Fish Echosounder
-  SC10.1F – Bird Cameras/FSS Monitoring
-  SC18 – Bird Radar
-  SC19VS – Visibility Sensor



-  SC10.1R – Bird Cameras - Rotor Monitoring
-  SC10.2 – Bird Speakers
-  SC15 – Bat Detector (microphone)
-  SC10.3 – WTG Shutdown-On-Demand (cabinet)
-  SC15 – Bat Detector (cabinet)

Ecodesign approach on one floater



June 2019



June 2023

Phase 1 : CONNEXSTERE R&D project
→ *BoB buoy installed on the project site*



2021



2026

Phase 2 : ECOFEOL R&D project
→ *Technical faisability and assessment of the ecological efficiency*





 oceanwinds.com



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