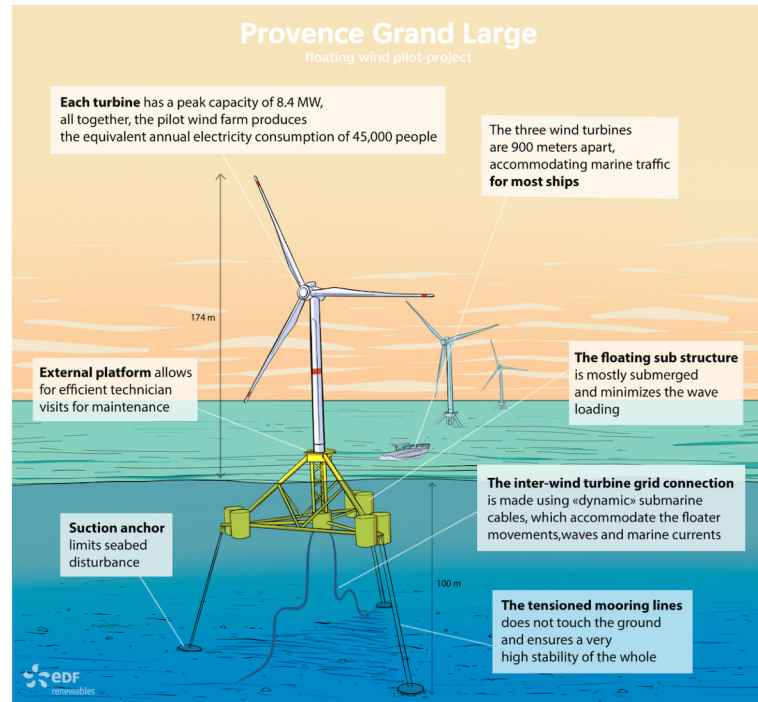
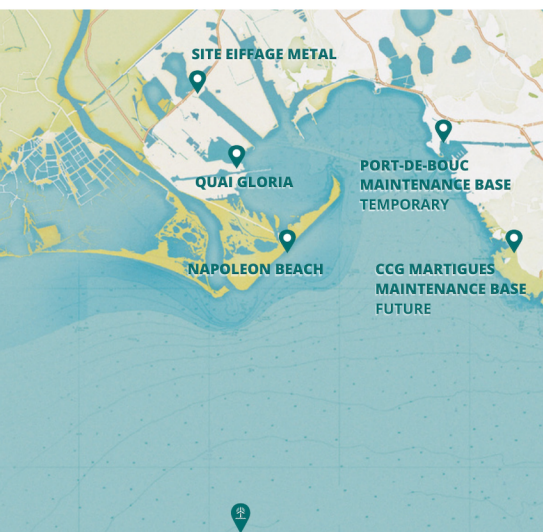


-  A pilot project for **3 floating offshore wind turbines**
-  A **worldwide innovation**, installed 17km offshore in the Gulf of Fos
-  An installed capacity of **25 MW** producing the equivalent of the annual electricity consumption of **45,000 inhabitants**
-  A project designed **with local stakeholders since 2011**
-  The **park will be commissioned in the second quarter of 2024.**



## Location zone



The siting area for the wind turbines and the connection route have been defined in consultation with local stakeholders and under the aegis of the Commission Nationale du Débat Public. In particular, it takes into account professional fishing practices.

It is located 17 km off the Gulf of Fos, in the commune of Port-Saint-Louis-du-Rhône.

The area has a number of assets that would make it ideal for this pilot project :

- Seabed depths **of up to 100 meters, with the possibility of aligning the three wind turbines**, limiting their impact on the maritime domain to less than 1km<sup>2</sup>,
- A **significant wind resource**, confirmed by on-site measurements,
- Proximity **to the Marseille-Fos industrial port zone**, enabling **assembly operations** for the floats and wind turbines to be carried out at different sites,

- A **public transmission grid available** within a reasonable distance to connect the project and inject the electricity generated,
- Environmental issues consistent with the rest of the Golfe du Lion, and **away from the main shipping routes**, in line with studies carried out since the project's inception.

## The calendar

2010	2012	2016	2019	2020/21	2022/23	SPRING / SUMMER 2023	CURRENT 2024
Approval of the pilot park	Start of local <b>consultation</b>  Project <b>selection</b> by the European Commission	PGL wins ADEME's "Eolflo" <b>call for projects</b>	Obtaining the <b>prefectoral decree</b>  Finalization of float <b>design</b>	Start of <b>equipment manufacturing</b> and first onshore electrical connections	Terrestrial <b>connection</b>  Float <b>assembly</b>  Float <b>launching</b>	<b>Assembly of wind turbines</b> on floats and storage of <b>floating wind turbines</b> at the Graveleau wharf	<b>Installation of anchors and anchor lines</b> to secure wind turbines to the seabed  <b>Towing and connecting</b> floating wind turbines to anchors  <b>Laying cables</b> to carry power generation to the RTE Port-Saint-Louis-du-Rhône substation  <b>Commissioning and operation</b> from the Port-de-Bouc temporary maintenance base

# Environmental monitoring

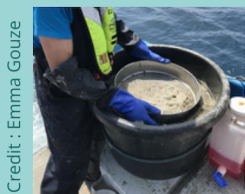
The **environmental monitoring** carried out on the PGL project aims to provide a precise description of the environment in which the pilot park will be integrated. They also enable us **to assess whether the environmental impacts** are in line with those initially predicted in the impact study. Finally, they allow us to monitor the effectiveness of impact reduction and compensation measures.

Provence Grand Large is a pilot project : as such, its mission **is to obtain environmental** feedback and thus advance our knowledge of this marine environment, **which is particularly remote** from the coast and hitherto little described.

It also aims to test **the robustness of new technologies** dedicated to environmental observations in complex marine conditions. Examples of environmental monitoring **include biosedimentary monitoring, ornithological radar and marine megafauna monitoring:**

## Biosediment monitoring

This involves sampling **sediments (mud) to identify and quantify** the animals living there. This operation **was carried out before the installation** of the wind turbines and **will be repeated in the same way after their installation.**



A total of **60 species were observed**, a rather low figure compared with other areas in the Mediterranean. During the installation of offshore wind turbines, the lives of these animals will be altered locally for a short period. These species are resilient and will quickly recolonize the area. The impact study qualified this impact as low to negligible.

## Bird radar

A **bird-watching radar** was installed on Napoleon beach during the first week of March 2023. **It was uninstalled at the beginning of November 2023** after a strong episode of marine submersion on the beach, **for safety reasons.** Now stored at the offshore wind farm's maintenance base in Port de Bouc, **it will be deployed at sea in the first quarter of 2024.** The onshore campaign enabled avifaunadata **to be acquired over a period of almost 7 months.**

## Monitoring marine megafauna



The aim is to take an inventory **of the birds and marine mammals** that frequent

PGL. In winter, **up to 40 dolphins** have been counted during a **single outing.** The impact study rated PGL's impact on these marine mammals **as low to negligible.** As far as birds are concerned, they are most numerous in the vicinity of PGL in summer. The impact study qualified **PGL's impact on birds as moderate to low,** due to the risk of collision.

Monitoring **will continue for three years after commissioning,** and will enable us to **assess whether this risk** has been measures if necessary.



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