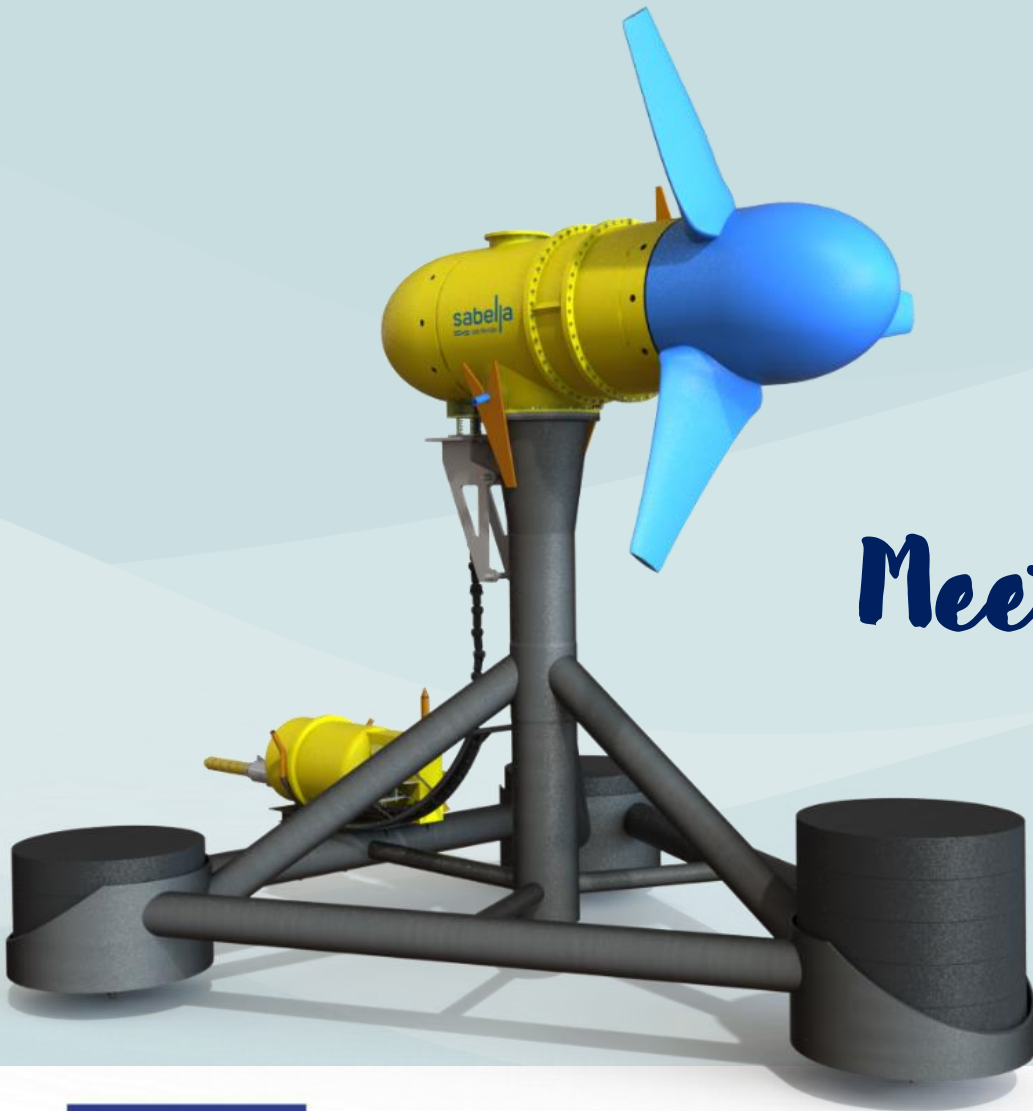




MHE
MORBIHAN
HYDRO ÉNERGIES

Meet the Buyer pack 2021

10th June 2021



EUROPEAN UNION
European Regional
Development Fund

Interreg 
France (Channel
Manche) England

TIGER  **TIDAL STREAM
INDUSTRY
ENERGISER**

Project overview

TIGER is **Interreg's largest ever funded project** which aims to be a game-changer for the European tidal stream energy sector.

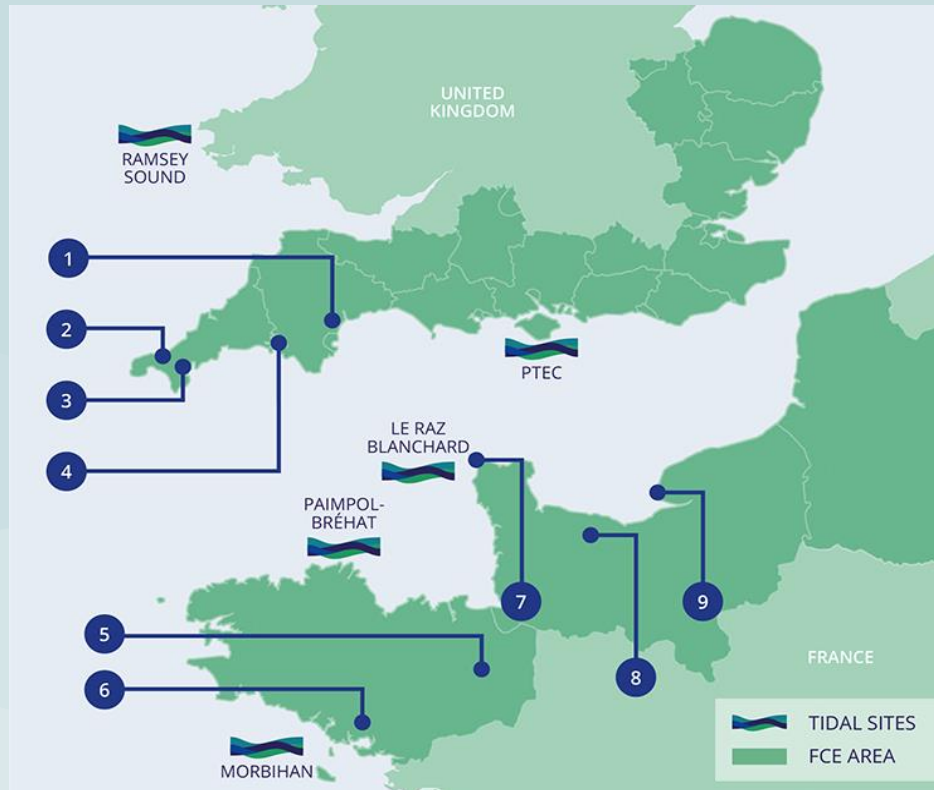
Funded through France (Channel) England Programme, the €45.4m (€29.9m ERDF) aims **to drive growth through the installation of** up to 8MW of **new tidal capacity in and around the Channel region** driving learning, innovation and the development of new products.

Led by the ORE Catapult from its regional offices in Hayle, Cornwall the 18-partner strong consortium will deliver the project which runs until Q1 2023.

Local project partner – **Morbihan Hydro Energies (MHE)**

Duration July 2019 (EU validation) - March 2023

The **TIGER** project



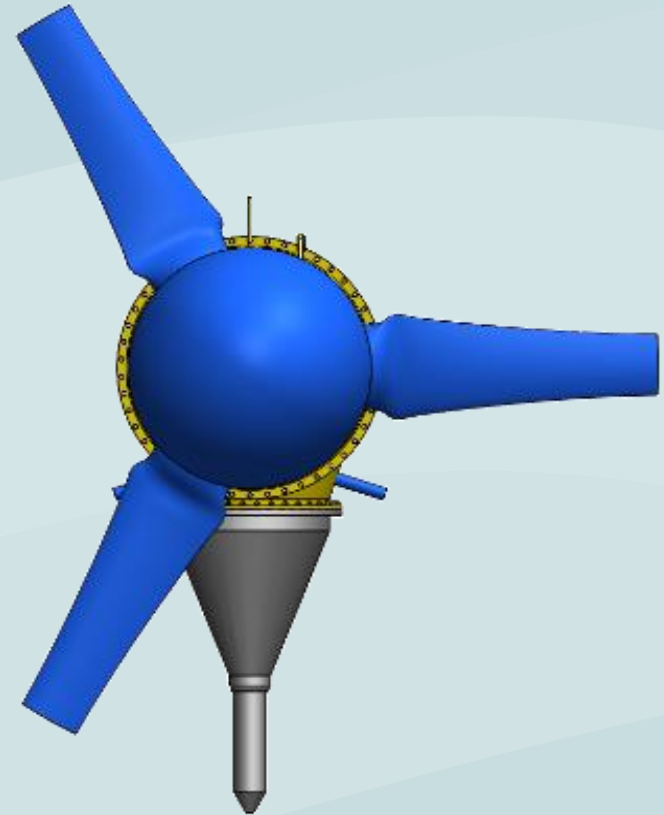
Objective in Morbihan

Installation Installation of two D08-250 type tidal turbines (8 m diameter, 250 kW power) in the Golfe du Morbihan for 3 years

Testing new technologies to reduce the cost of tidal energy

Determine the impact of the experimental tidal turbines through environmental monitoring

Exploit the energy of the Golfe to produce local carbon-free electricity



Turbine site



Turbine site



Project Specifics

The owner / operator is **Morbihan Hydro Energies** a joint venture between SA SABELLA and SEM 56 ENERGIES plans to immerse two experimental tidal turbines for 3 years.

The **UNIVERSITE DE BRETAGNE SUD (UBS)** is also part of the European project and supports MHE in the development of the Morbihan site having carried out numerous environmental studies in the Golfe of Morbihan.

Site specific information

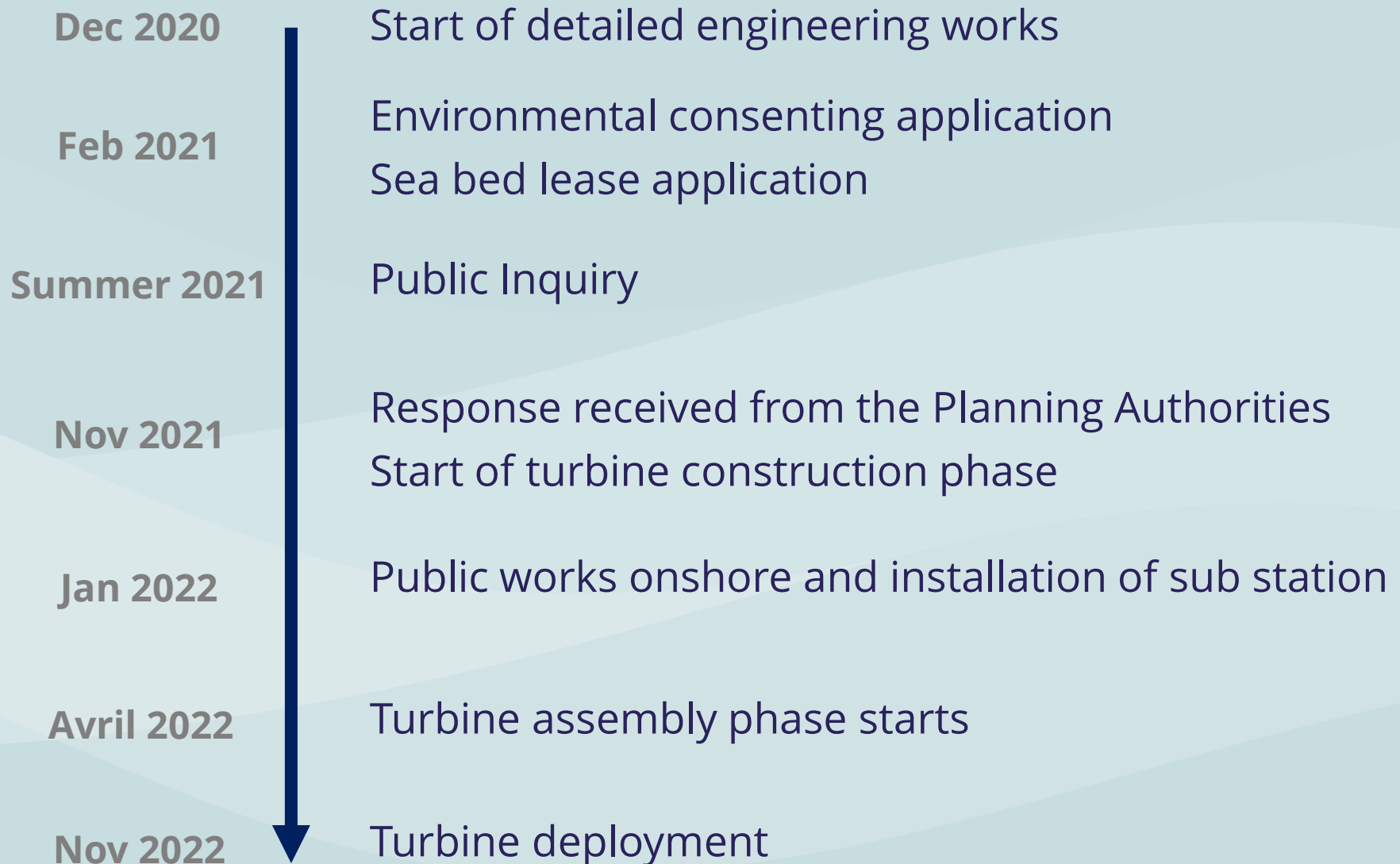
The site south of Ile Longue is located at the entrance of the Golfe of Morbihan and it is through this channel that most of the tidal currents move between between the Golfe and the Bay of Quiberon with currents reaching 9 knots at optimum points in the tide cycle.

This channel is constrained to the North by the Ile Longue and to the South by the Rhuys Peninsula.

The seabed is characterised by two irregular rocky plains to the North and South which are the underwater extension of the terrestrial (islands and land features) where depths rarely exceeds 10 meters.

In between these two plains are an underwater canyon that is between 80 and 150 meters wide where the depth increases very quickly to 20 meters and can reach 26 meters deep.

Provisional timetable



State of play

The D08 turbines will operate on Golfe de Morbihan site from Spring 2022.

The turbines will be recovered in Q1 2023 to verify wear

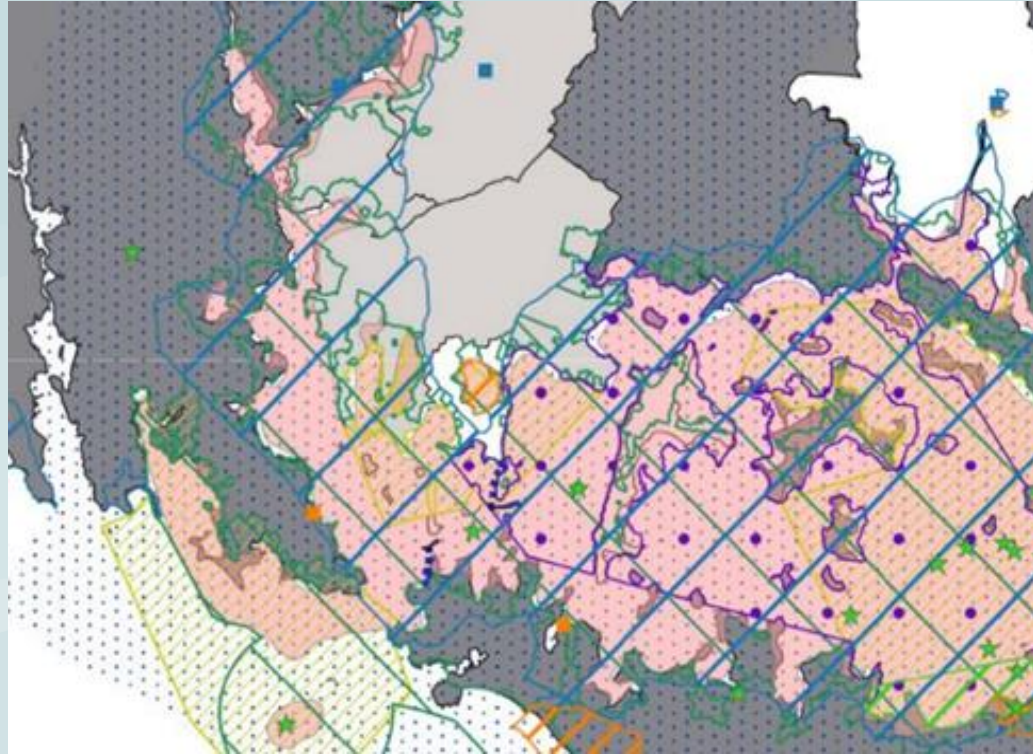
Project is currently at early stage of developing O&M strategy for the site

Requirements for the supply of O&M goods and services will be communicated to market as project progresses from Autumn 2021

Supply opportunities

- ✓ Environmental studies
- ✓ Shore side public works
- ✓ Laying of ducts and cables
- ✓ Study and supply of the sub station
- ✓ Ecological mooring
- ✓ Environmental monitoring

Environmental surveys



Laying of ducts and cables

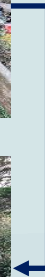


Civil engineering works

**From
the
beach**



**Towards
the sub
station**



Sub station



Ecological mooring



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