TIGER

TIDAL STREAM
INDUSTRY
ENERGISER

EUROPEAN UNION

Interreg
EUROPEAN UNION
France (Channel Manche) England
European Regional Development Fund

Project description and business opportunities for suppliers

TIGER / Raz Blanchard Project

Hydroquest

https://www.hydroquest.net/

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Introduction to TIGER

- **TIGER is the largest ever Interreg-funded project to change the game for Europe's tidal energy sector.**

  Funded by Interreg France (Channel) England, the €45.4 million project (€29.9 million ERDF) aims to stimulate growth through the installation of up to 8MW of new tidal capacity in and around the Channel area, promoting learning, innovation and new product development.

  Led by the ORE Catapult from its offices in Hayle, Cornwall, the consortium of 18 partners will deliver the project until the first quarter of 2023.

The TIGER partners are :

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Interreg zone & TIGER activity map

Site	Key partner	Location	Current status	Capacity to be installed	Technology to be installed	Timescale for deployment
Ramsey Sound	Cambrian Offshore	Pembrokeshire, UK	Fully developed tidal demo site with 5MW ROCs	Up to 1MW of new turbine capacity	*TBC*	2021
Paimpol-Bréhat	EDF and SEENEOH	Brittany, FR	Test site to be repurposed	100kW of capacity	Minesto *(x1 turbine)*	2021
Le Raz Blanchard	Normandie Hydroliennes Hydroquest	Normandy, FR	Existing site under development	Consenting and techno-economic studies only	Atlantis / Hydroquest *(up to 5MW deployment planned following consenting)*	Deployment outside of scope of TIGER
Morbihan	Morbihan Hydro Energies SASU and Sabella	Brittany, FR	New site to be consented	500kW in project	Sabella turbines *(2x D08 250kW)*	2022
PTEC *(TBC)*	QED Naval	Isle of Wight, UK	Consented, dormant	Up to 5MW	Subhub and turbines *(TBC)*	2022
				2.8 to 7.8 MW		

More information can be found on the project website: https://interregtiger.com/

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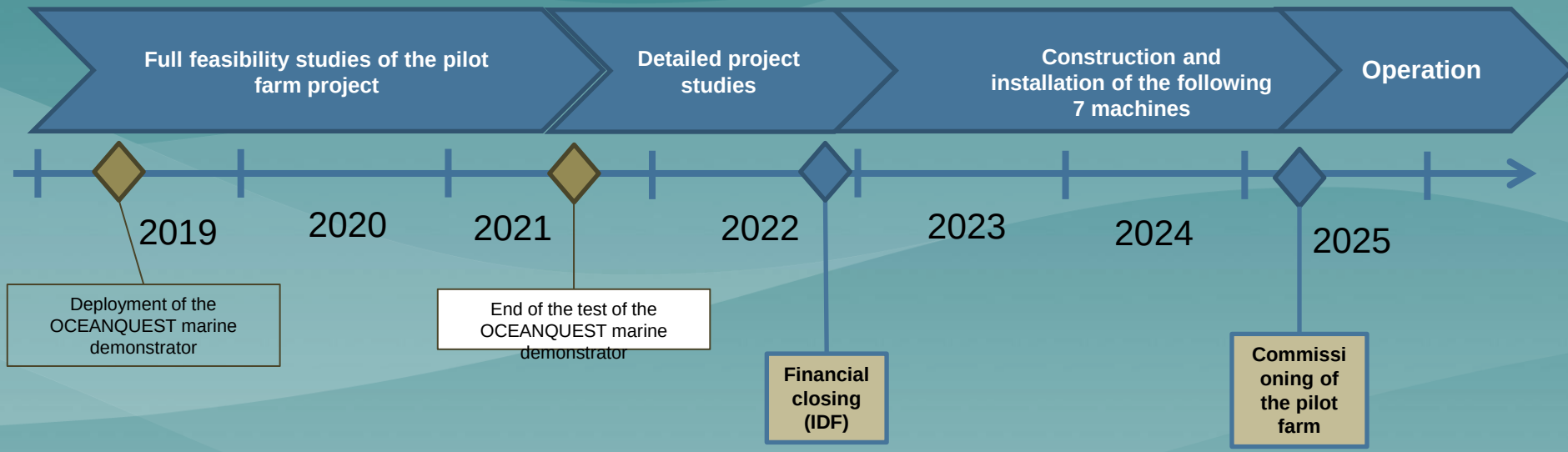
Project specifics

- **Pilot farm project with 7 turbines, for a total installed capacity of 17.5 MW**
- **Landing in Eclagrain Bay by directional drilling**
- **Connected to the network in Jobourg**

Project schedule

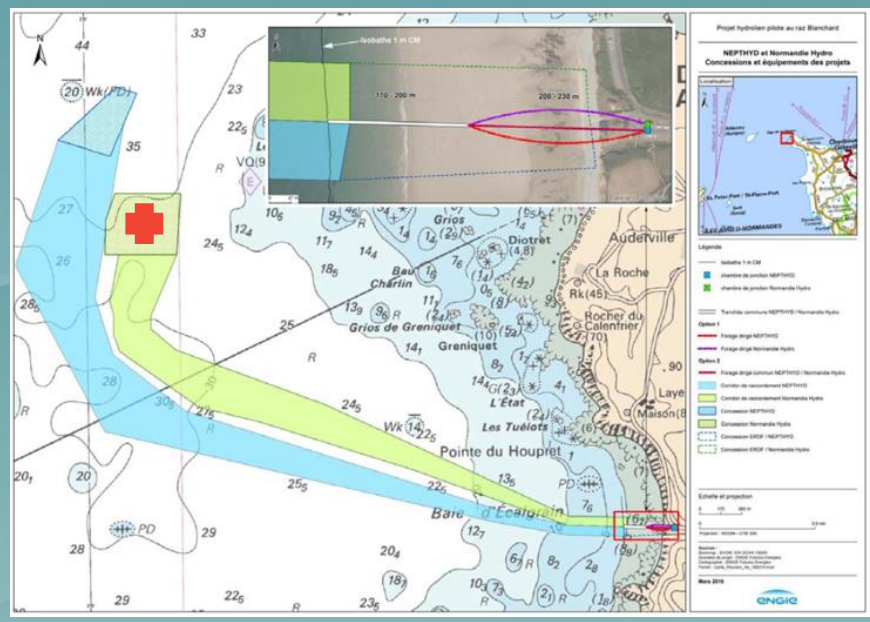


Site Description - Specific

- High energy site with high commercial potential
- Depth of the pilot farm concession: between 30 and 40 m
- 8 m tidal range
- Seabed characteristics: Outcropping rock

Site description - Location and logistics

- Site located in the Raz Blanchard, Normandy, France
- Installed capacity of the project: 17 MW
- 4 km connection to the coast
- Landing in Eclargrain Bay
- Site near Cherbourg

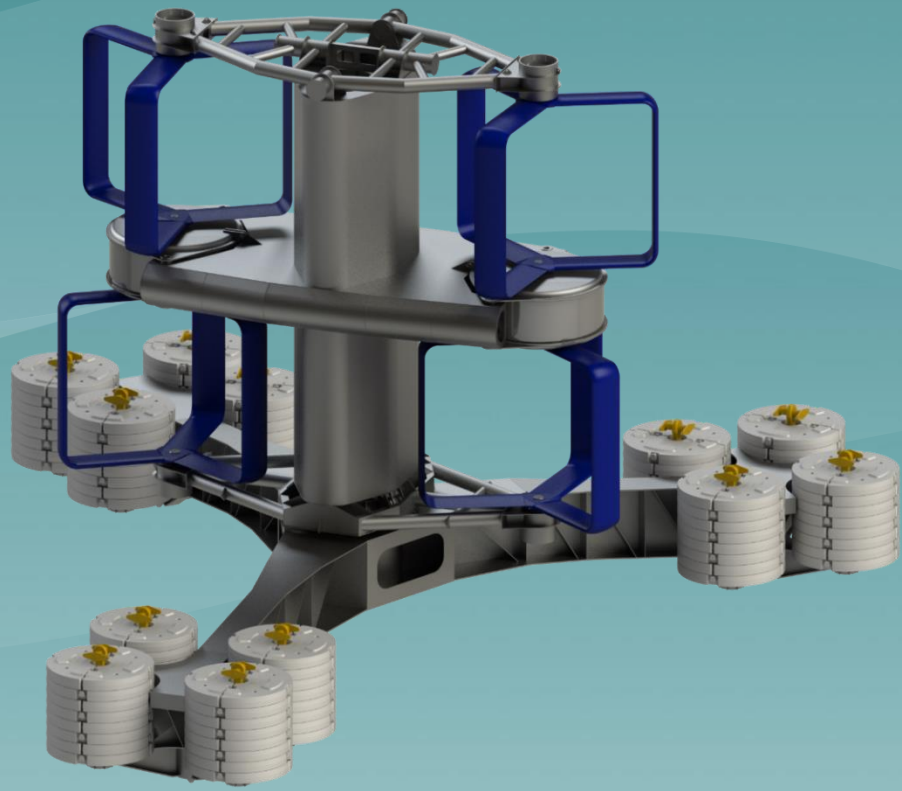


Description of the technology

- Rotors: 10m diameter x 6m height
- Unit power: 2.5MW
- Dry weight: 200 tonnes
- Overall dimensions: 24m width x 16m height
- Gravity foundation

Advantages of the technology :

- Bi-directional operation and low sensitivity to turbulence
- Construction adaptable to different depths on site
- Excellent performance without blade pitch



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Network connection

- Connection study carried out by ENEDIS in 2017
- Directional drilling landing
- 20kV Jobourg delivery station

Logistics: Construction

- Construction and assembly of the tidal turbine and foundations in Cherbourg
- Dynamically positioned vessel to install turbines and foundations
- Cabler to deploy the cable

Logistics: Operations and Maintenance

- **Maintenance in Cherbourg**
- **Turbine recovery operations performed with a 250 T dynamic positioning vessel**

Permitting and authorisations

- Site already authorised for another technology
- Authorisations being updated
- Targets: updated consent authorisations by mid-2022

Your opportunities in the supply chain

The supply needs are many and varied

- **Engineering and consulting**
- **Boilermaking**
- **Pressure equipment**
- **Medium and large size machining**
- **Coating**
- **Marine operations**
- **Civil engineering works on land**
- **Directional drilling works**
- **ect**

Our contact details

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