saitec offshore technologies

About us

Saitec Offshore Technologies main purpose is to offer a unique solution for offshore wind industry.

We start our activity in 2016, developing a pioneer and cost-effective floating technology:

SATH: Swinging Around Twin Hull

We want to contribute to our society with a reliable technology that can **help to fight climate change**

25 technical and **specialized professionals** comprise a team working to shape the future of energy

SATH Technology

saitec offshore technologies

An innovative and competitive **concrete floating concept** for offshore wind turbines suitable for **shallow and deep waters** (35m depth, onwards)

Concrete

A durable material that allows CAPEX & OPEX reduction

Floaters

Its geometry leads to a reduced concrete shell thickness

Plug & Play solution

Easy installation suitable for quick disconnection

Single point mooring system

The platform can rotate like a weathervane facing the wind

SATH technology roadmap

saitec offshore technologies

01 First steps (2014 –2019)

SATH technology concept, design and development

Several wave basin testing campaigns with scaled models

02 Demonstration projects (2019 – to date)

Pilot projects underway to test, analyze and validate SATH Technology

BlueSATH

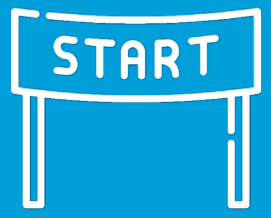
DemoSATH

03 Road commercialization

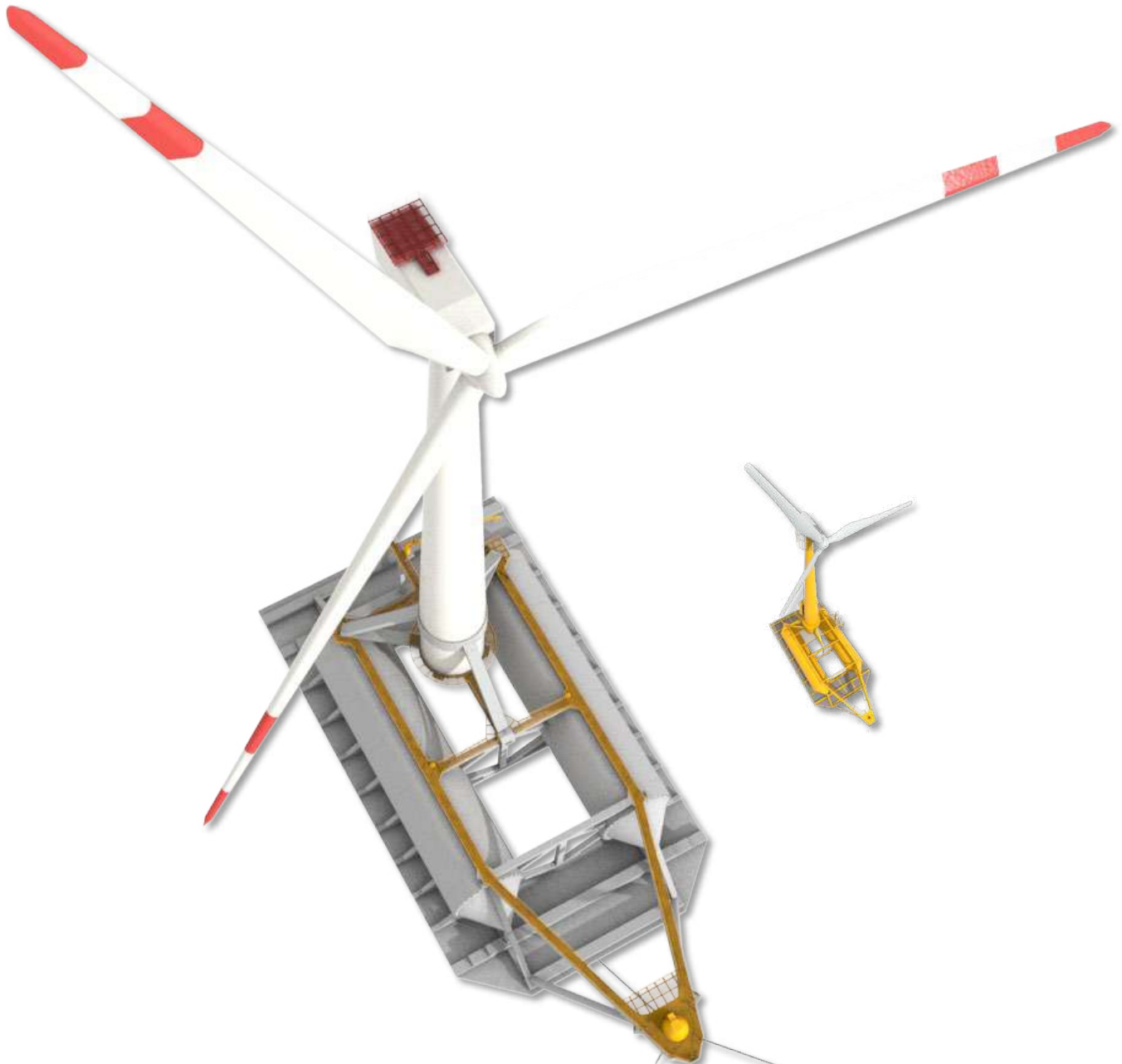
SATH technology in commercial wind farms

BlueSATH project details

- **Turbine**: 30kW
- **Hub height:** 17,45 m (m.s.w.l.)
- **Installation**: Abra del Sardinero (Santander)
- **Mooring**: (3x150) Chain mooring lines
- **Commissioning:** Q3 2020



Our first deployment of a 1:6 scale prototype of a 10MW wind turbine using SATH floating technology in open sea waters



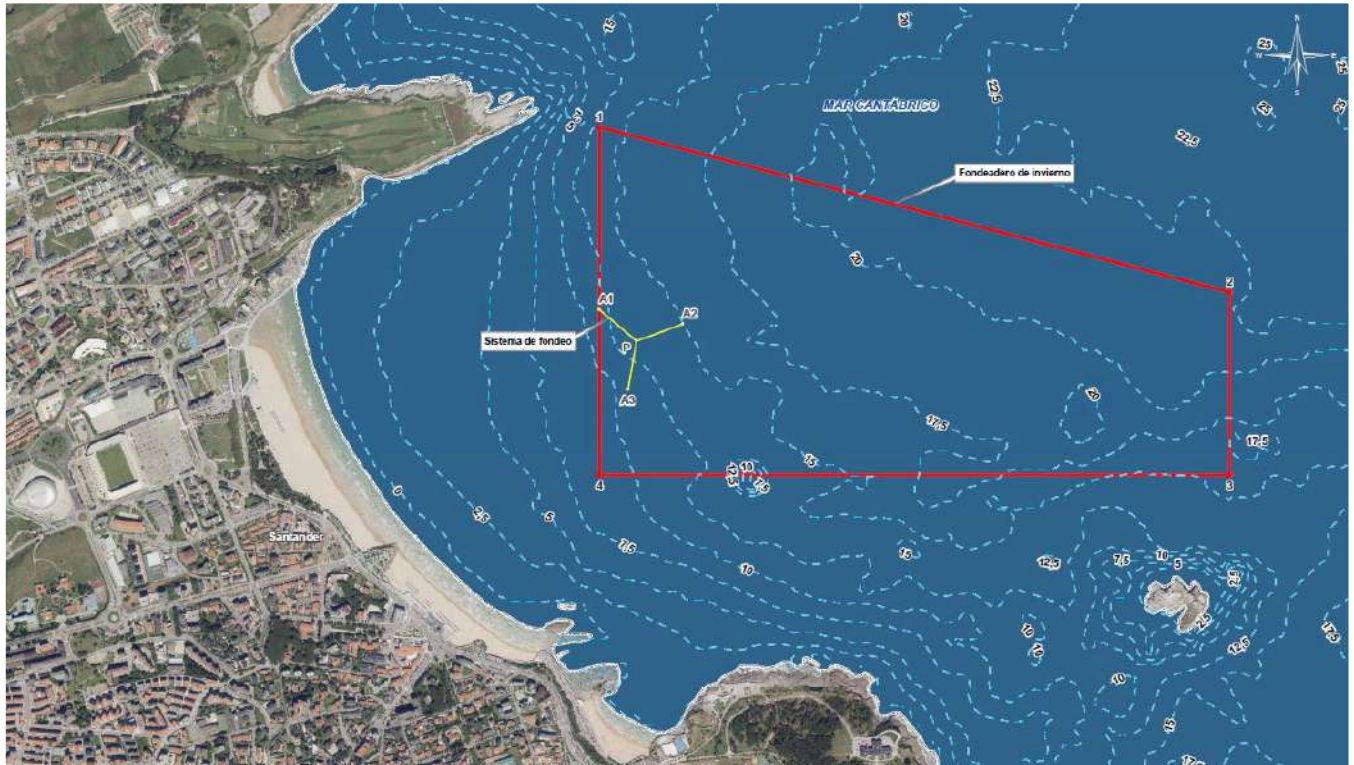
10MW 1/6th

Scale Demo

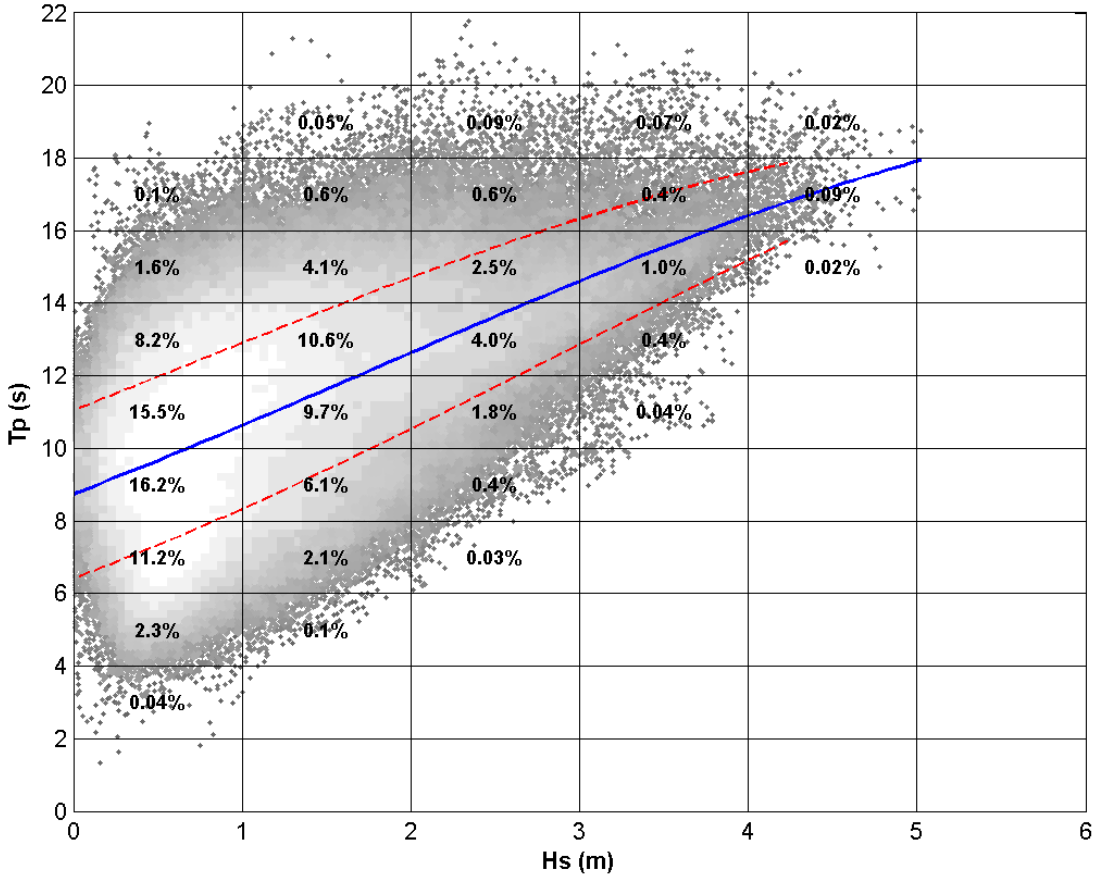
Key Challenges

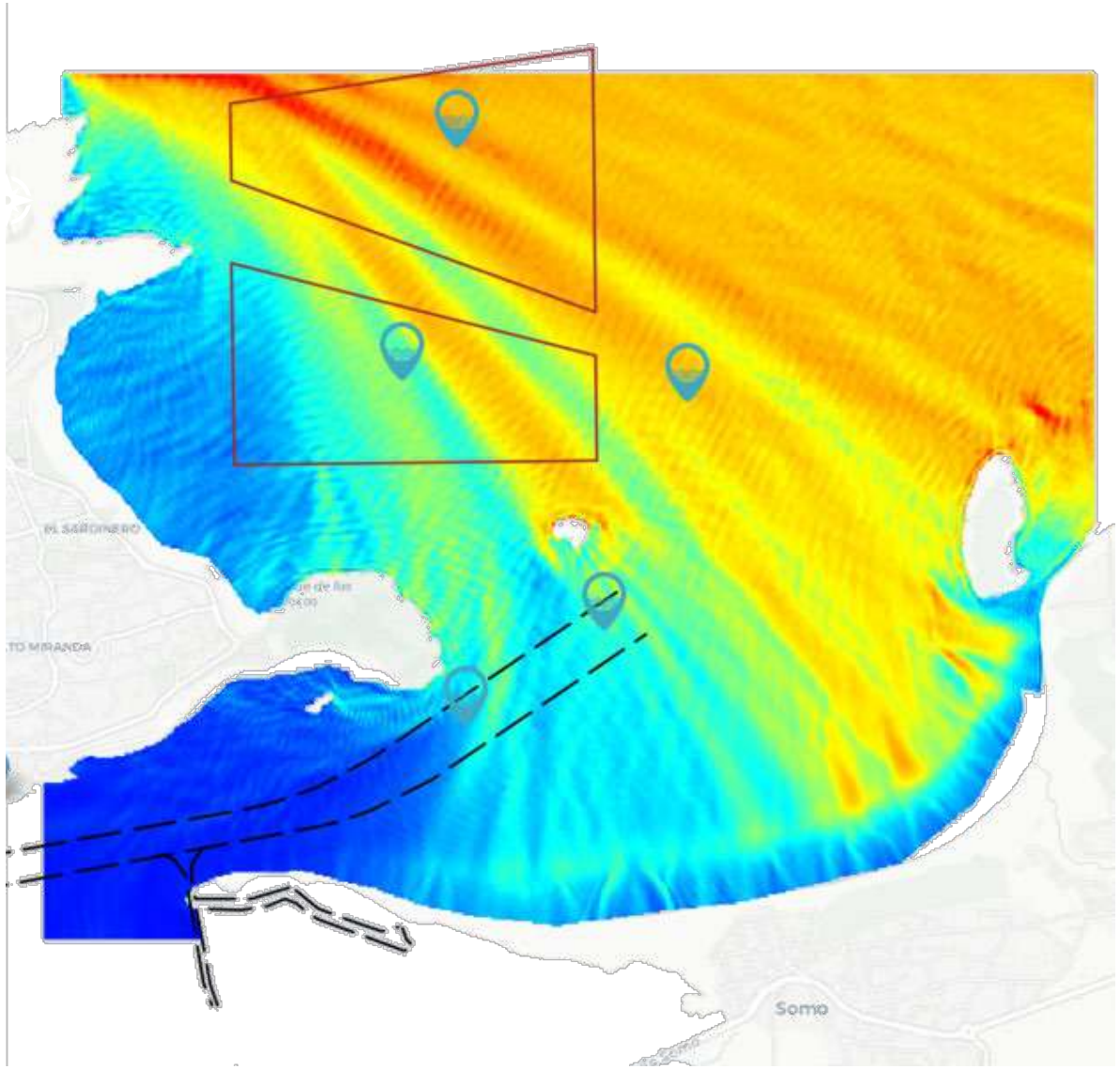
- Scale Effects
- Site selection
- Monitoring Objectives

BlueSATH site



BlueSATH site





BlueSATH construction

BlueSATH construction

BlueSATH transport

BlueSATH launching

BlueSATH installation

DEMOSATH

DemoSATH project details

- **Turbine**: 2 MW wind turbine
- **Base of the structure:** 30 m. x 64 m.
- **Installation:** 2 miles off the coast in BIMEP
- **Sea deep**: 85 m.
- **Mooring**: Hybrid mooring lines (chains and fibre)
- **Commissioning:** Q3 2021

The electricity generated during the project will be fed into the Spanish power grid

DEMOSATH

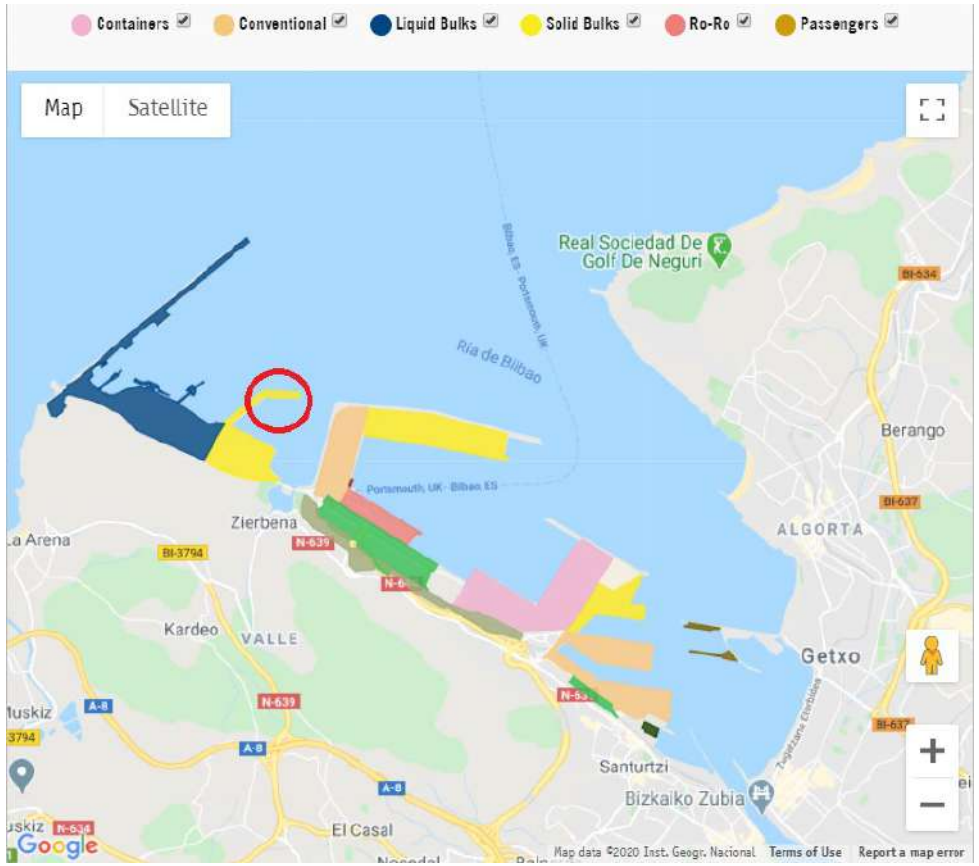
Collaboration agreement with RWE

RWE

- RWE will finance part of the project costs
- They will also contribute with its many years of offshore experience
- In return, RWE will gain access to the resulting findings

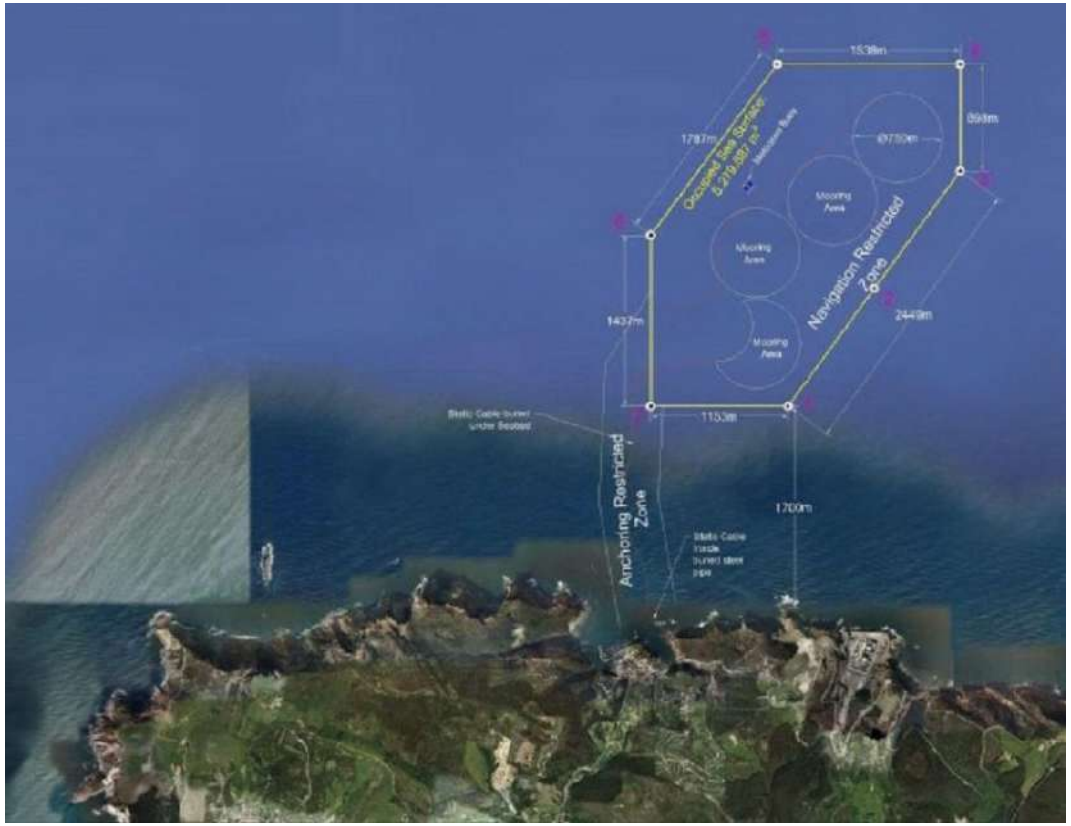
Construction site

Port of Bilbao (Spain)



Deployment Site

BIMEP (Biscay Marine Energy Platform)

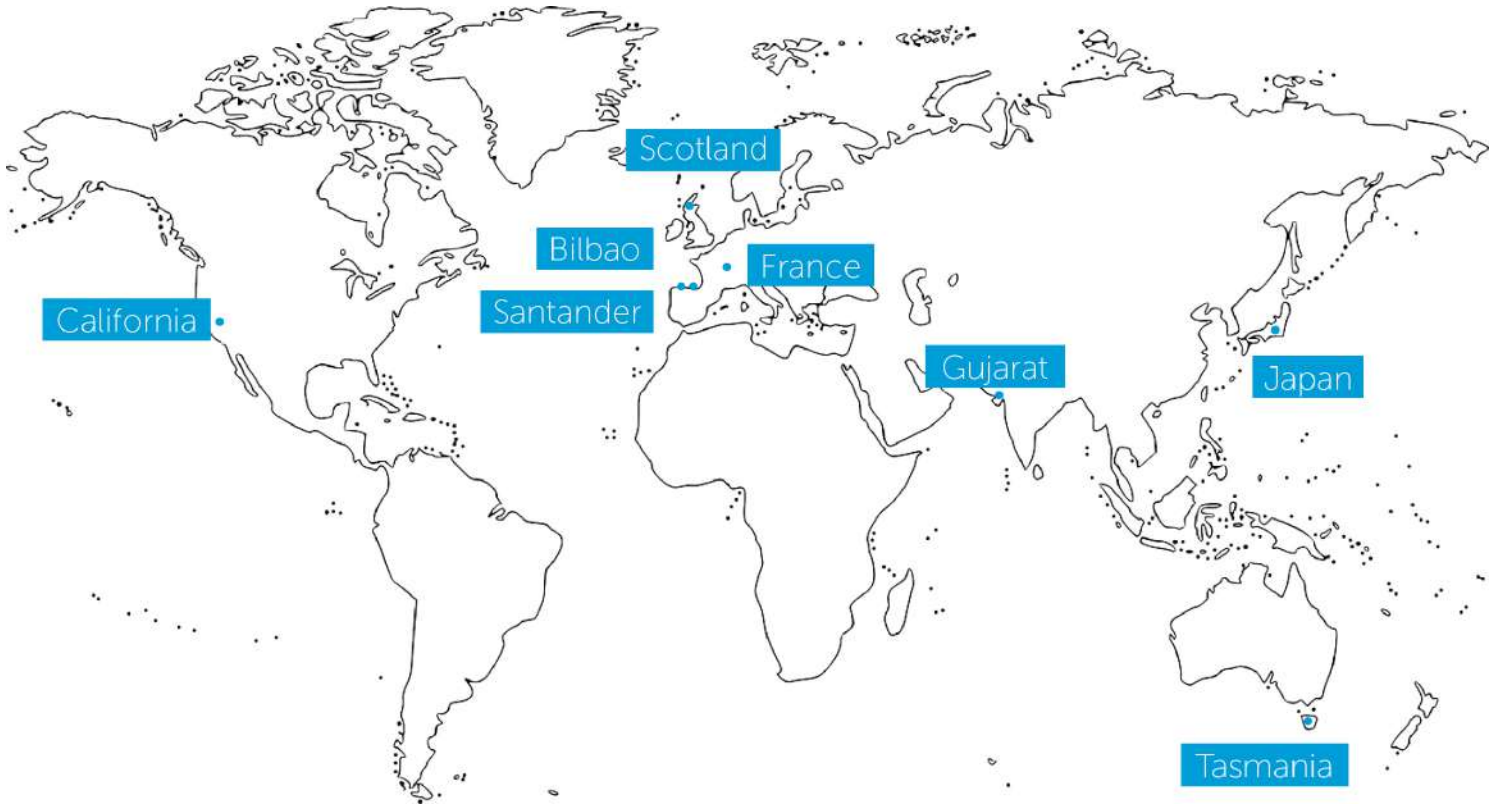


Deployment Site

BIMEP (Biscay Marine Energy Platform)
Contract signing and project presentation to media

Worlwide Footprint

saitec offshore technologies



Prototypes & precommercial arrays

Santander | Spain
Bilbao | Spain
Gujarat | India
California | US
Tasmania | Australia

Commercial tenders

France
Scotland

Commercial developments

Japan (East & West)

Saitec Offshore Technologies

saitec-offshore.com

Ibarrabarri Business Park, A-2 Building
48940 Leioa - Biscay (Spain)
+34 944 646 511
saitec@saitec-offshore.com