

France Energies Marines offers research and expertise services in line with the needs of private and public stakeholders to support them at each stage in the design and life of an offshore renewable energy project. With a 75-strong multidisciplinary team and experience based on over 70 R&D projects, the Institute is developing a holistic approach, thanks to which we are able to implement relevant actions to optimise costs, reduce lead times and foster a positive perception of the sector.

Site characterisation:

- Definition of weather windows for operations at sea
- Definition of design load cases and systems design

Systems and farms optimisation:

- Reliability, performance, hybridization
- Critical components in-service monitoring

Environmental integration:

- Definition of innovative environmental monitoring protocols
- Chemical elements dispersion studies

Expertise and engineering services

Prototypes and technology audits to support investment decisions

Consulting and auditing

Technology diagnostics

Contracting assistance:

- Drafting of specifications for R&D projects
- Preparation for public debate and ongoing consultation
- Definition of lowest impact scenarios on the scale of the coastline

Training

Professional training

Higher education

Offshore experimentation and instrumentation

Support for instrument deployment at sea

Access to the various resources of the Institute's national offshore observation network

Development of numerical tools

Digital twin of floating wind turbine

Modelling of the behaviour of synthetic fibres in mooring lines

Socio-ecosystems modelling

Research and expertise services