
PRINCIPIA SAS

Informations générales

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Présentation

Activité détaillée

PRINCIPIA offers to the industry top class services from expertise to the asset owners, to the conception and basic design of high value systems, all these services being fed by a constant R&D effort since its creation in 1981.

Based on 35 years' experience on mooring system, cable and offshore structure design in the Oil & Gas industry, PRINCIPIA have managed to transfer this know how since 2010 toward the Marine Renewable Energy Sector.

Capacities

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- +15 year experience Project Managers on Offshore Projects
 - Hydrodynamic / Mooring / Structure / Cable specialists
 - Team of + 50 engineers dedicated to Offshore project (up to 90 with our Danish partner, LIC engineering)
 - Large computing resources

Principia is also supplying to the offshore wind market a specific commercial software dedicated to integrated load analyses of floating and fixed offshore wind turbines (DeepLines Wind®: Hydro-aero elastic capability) which is now used by Bureau Veritas and ABS Group for the certification of offshore wind projects.

Offshore Wind - Scope of Services

- Design Basis & Design Brief
- Monopile, Jacket or floating foundation screening study
- Foundation FEED/detailed design
- Integrated load analysis & Load Assessment
- FOWT Global performance analysis
- Mooring system design
- Subsea cable engineering package
- Transportation, installation and logistic studies
- Basin Test Specifications & Analyses
- Drawings Packages

Principia has now been working on +10 different floating platform concepts for various developers within the floating offshore wind market and identified as a leader for FOWT consultancy services. PRINCIPIA provide state-of-the-art consultancy services for bottom fixed foundation design using integrated load analyses.

Marine Renewable Energy - Scope of Services

PRINCIPIA is also active in supporting other marine renewable technologies based on its unique combination of skills required for such challenging design works:

- Floating solar technology (Solar PV)
- Ocean Thermal Energy Converter (OTEC)
- Wave Energy Converter (WEC)
- Tidal Energy Converter (TEC) system