

# INFLUENCE OF BIOFOULING

France Energies Marines  
S&T Tribune Webinars

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## INFLUENCE OF BIOFOULING

### How to secure projects against induced changes and improve maintenance?

Biofouling is a well-identified phenomenon in the fields of maritime navigation and offshore oil exploitation for which limiting or eliminating solutions have been developed for several years. On the other hand, ORE systems have specific features that induce greater sensitivity to biofouling for certain components. This represents a challenge for engineers in the design and maintenance phases. Ideol's feedback acquired through the design, deployment and in-service monitoring of Floatgen, a 1:1 scale floating wind turbine demonstrator, is therefore a very valuable testimony.

Biofouling also raises many questions about certification. Companies such as Bureau Veritas are therefore particularly interested in the research currently being carried out on this topic. Two emblematic collaborative projects illustrate the different aspects studied: OMDYN2 and ABIOP. The first concerns, among other things, the consideration of the stresses induced by biofouling on the dynamic electrical cables of floating structures. The second is dedicated to the development of biofouling characterization and quantification methods for engineering on ORE systems.

**CHAIRWOMAN:** Catherine DREANNO, Ifremer

- Improving the consideration of biofouling in the standards of the offshore industry  
**Fabien KHOURI**, Hydrodynamic and Mooring Engineer  
Bureau Veritas Marine & Offshore
- Impact of biofouling on the design of a floating wind turbine  
**Arthur COTTET-EMARD**, Hydrodynamics Engineer  
Ideol
- Marine growth: Why the related issues are higher than in the O&G industry? Physical description and first illustration thanks to full-scale experiments on a dynamic cable  
**Guillaume DAMBLANS**, R&D Programme Manager in Design and Monitoring of ORE Systems  
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- Towards improving the understanding of biofouling within MRE environments  
**Nolwenn QUILLIEN**, Researcher in Marine Biofouling  
France Energies Marines



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