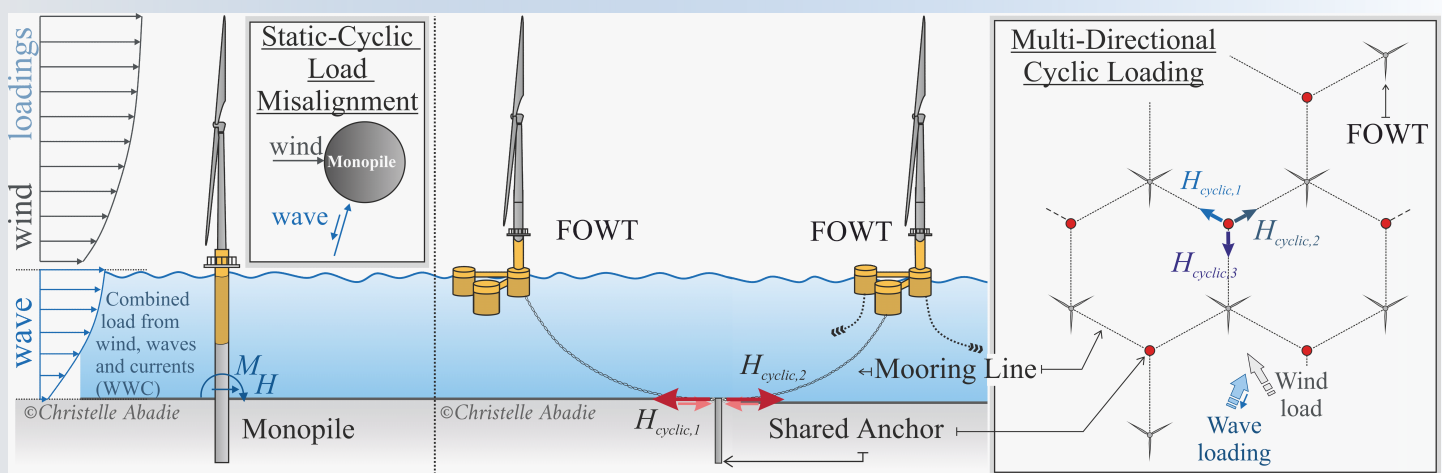




SHARED ANCHOR PILE RESPONSE TO MULTI-DIRECTIONAL LATERAL CYCLIC LOADING

Dr. Christelle Abadie

Floating offshore wind holds immense potential for harnessing energy resources in deep waters. However, this technology faces significant cost challenges, particularly in the construction of large platforms and mooring systems. Shared anchors provide a cost-effective mooring solution, but they also introduce increased cascading failure risks, necessitating careful and informed design. This presentation presents findings from three recent European research projects investigating anchor piles subjected to multi-directional cyclic lateral loads. This research was presented as part of the opening Bright Spark lecture at the 5th ISFOG conference in June 2025. The findings support improved mooring system design for floating wind turbines and advances in monopile design strategies to accommodate better cyclic multi-directional loads arising from misaligned wind and wave forces.



Dr. Christelle Abadie



Dr. Christelle Abadie, Research Fellow at Université Gustave Eiffel, earned double degrees from ENSTA Paris and an MSc in Structural Design (2011), followed by a PhD from Oxford (2016). She previously served as Assistant Professor at the University of Cambridge before joining her current position.



(*) Posti limitati, Registrati all'evento per partecipare

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