

Polyamide Behaviour and Reliability for FOWT Mooring

Introduction and context of the project

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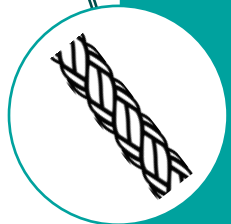


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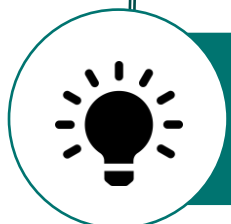
Agenda - From 2:00 to 3:30 p.m. (CET)



Context of the project and links between the various work packages



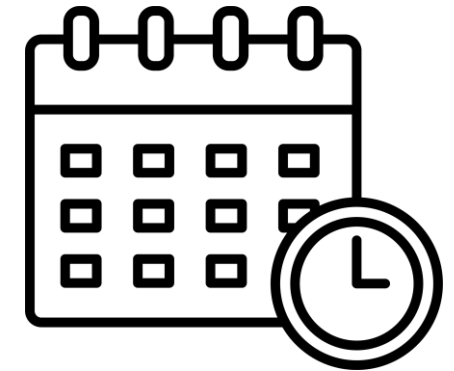
Behaviour law, creep experiments and model, meso-scale modelling, fatigue curves
Innovative sensors
Offshore deployment with monitoring, comparison of measurements with model



Use of the project results by polyamide rope manufacturers
Perspective for future research work

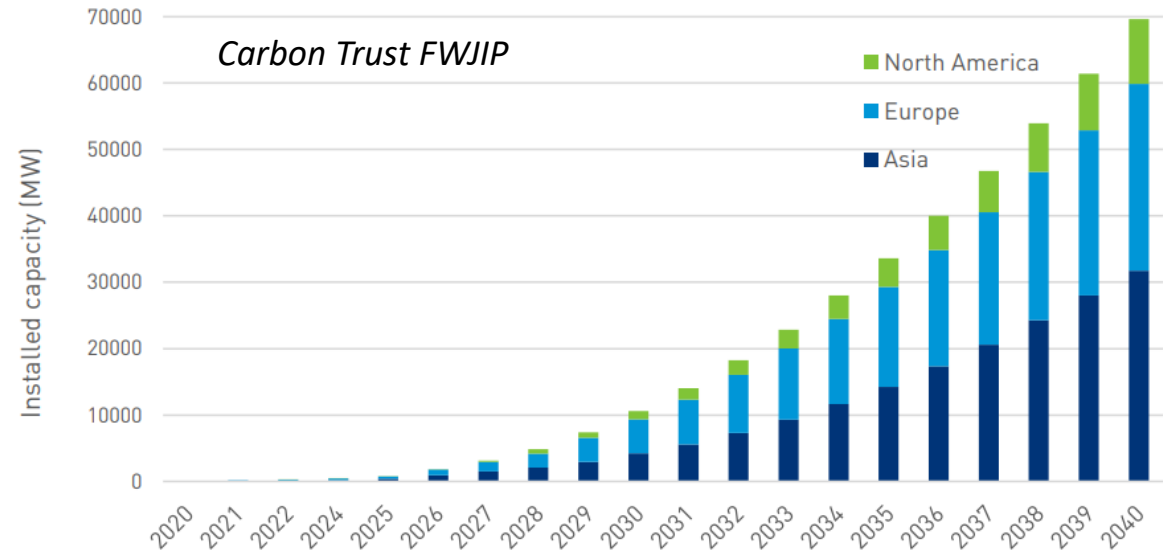


Interactive Q&A session



Context of the project and links between the various work packages

- Demonstration projects :
HyWind, FloatGen ...
- Floating wind farm projects:
HyWind Scotland, Tampen, WindFloat....
- Current French developments:
Provence Grand Large, South Brittany....



Technical questions on synthetic moorings remain:

Long term behaviour: Polyamide SPM hawsers offshore replaced after 1-2 years

Monitoring: No reliable instrumentation available to indicate state of mooring lines

Modelling: Complex non-linear behavior. Tools to design and understand behaviour

Context of the project and links between the various work packages

To address these questions:

- **POLYAMOOR (2017-2020)**

Durable and flexible polyamide moorings for offshore renewable energies

- **MONAMOOR (2020-2023)**

Monitoring of polyamide mooring lines



MONAMOOR Project structure

