



Hamburg/Taipei/Tokyo/New York, 13 May 2022

WFO releases White Paper *Mooring Systems for Floating Offshore Wind: Integrity Management Concepts, Risks & Mitigation*

- WFO's Floating Offshore Wind Committee (FOWC) releases its third publication
- FOWC's Mooring Subcommittee provides an overview of floating offshore wind mooring system integrity management concepts, risks and mitigation strategies
- A robust mooring integrity management philosophy is essential for securing finance and insurance coverage
- An independent, anonymised reporting system to share integrity management data would benefit the entire industry

WORLD FORUM OFFSHORE WIND (WFO) published its White Paper *Mooring Systems for Floating Offshore Wind: Integrity Management Concepts, Risks & Mitigation*.

Whilst there is therefore no 'one-size-fits-all' solution to mooring systems for floating offshore wind, a robust integrity management philosophy and associated process, covering all stages of the mooring life cycle and developed in detail during the initial design phase, will be essential for securing finance and insurance coverage across all projects.

Redundancy is an important issue when considering continuous energy production. The provision of alternative load paths through additional lines (n+1 concept) is generally considered the preferred option. However, increasing the capacity or size of equipment, effective sparing strategies, employing load reduction devices and utilising digital twins to facilitate predictive maintenance may also be suitable approaches to improving availability.

The Committee identified that an independent, anonymised reporting system which benefits all stakeholders deserves further investigation and may therefore form part of its future work. Indeed, while common failure modes and degradation mechanisms are well understood from offshore oil and gas experience, there is limited transferability with respect to floating offshore wind. New threats are either unknown or less well-understood and consequently not easily prevented by existing integrity management practices. All integrity management data (and not just failures) should be made available so that the whole industry can learn quickly together. Intellectual property and commercial contractual constraints also need to be relaxed or modified to facilitate data sharing.

David Timmington, Chairman Moorings Subcommittee, Griffin-Woodhouse Ltd.:

“We trust this white paper clearly introduces the main concepts and design choices with respect to moorings for floating offshore wind turbines, identifies key considerations with respect to integrity management practices and points towards future detailed work of WFO’s subcommittee.”

Gunnar Herzig, Managing Director, WFO:

“Following the publication of WFO’s two white papers on Insurability and Maintenance for floating offshore wind we are thrilled to present this third paper which will hopefully help the industry to accelerate the global build-out of floating offshore wind.”

All publications can be openly accessed on the WFO website under: www.wfo-global.org

About WFO:

WORLD FORUM OFFSHORE WIND (WFO) is the world’s only organisation 100% dedicated to fostering the global growth of offshore wind energy. WFO’s international members represent the complete offshore wind value chain including developers, manufacturers, service firms and other organisations. WFO is registered as a non-profit association (e.V.) in Germany with offices in Hamburg, Taipei, Tokyo, and New York. WFO’s unique profile facilitates access to governmental and international forums in order to open new markets and to advocate for global offshore wind growth.

Contact:

WORLD FORUM OFFSHORE WIND (WFO)

Gunnar Herzig
Managing Director

HAMBURG
Überseering 4
22297 Hamburg
Germany

NEW YORK
80 Pine Street, Floor 24
New York, NY 10005
USA

TAIPEI
International Trade Building
19F-10 No. 333, Keelung Rd., Sec. 1
Taipei 11012
Taiwan

TOKYO
Sanbancho KS Bldg. 5F
2-4 Sanbancho, Chiyoda-ku
Tokyo 102-0075
Japan

Email: gunnar.herzig@wfo-global.org

Tel: +49 1626396714

Web: www.wfo-global.org

Twitter: @WFO_global

LinkedIn: WORLD FORUM OFFSHORE WIND (WFO)