



Copenhagen/Tokyo/Brest/Rotterdam/Oslo/London, 18th November 2025

Launch of **The Moonshot**: A Multilateral Framework to Advance the Development and Industrialisation of Floating Offshore Wind

Institutions from Denmark, Japan, France, the Netherlands, Norway and the United Kingdom have come together for the first time in a collaboration aimed at driving positive change in the global floating offshore wind market

At the Second FLOWRA International Forum in Tokyo on 28th October 2025, DI Danish Energy Industries (DI Energy) of Denmark, the Floating Offshore Wind Technology Research Association of Japan (FLOWRA), France Energies Marines of France (FEM), Holland Home of Wind Energy of The Netherlands (HHWE), Innovation Norway of Norway, and the Offshore Renewable Energy (ORE) Catapult of the United Kingdom jointly announced the formation of a multilateral framework called **the Moonshot**. This agreement aims to contribute to the development of various international frameworks for the commercialisation and industrialisation of floating offshore wind.

An international collaborative workshop, the 'Kyoto Round', was then held in Kyoto from 29th October for three days. Over 60 industry experts recommended by the six organising bodies came together to agree pathways to work together on a range of topics, including: 'Harmonisation of international standards', 'system integration', 'innovation through R&D', and 'Test and Demonstration' with the aim of contributing to long-term risk reduction and cost savings.

Floating offshore wind has the potential to harness plentiful offshore wind resources, regardless of water depth. However, challenges remain in terms of commercial deployment. These include environmental surveys and social coexistence studies to component manufacturing, assembly, turbine integration, offshore installation, operational

maintenance, and ultimately renewal and decommissioning. Furthermore, the design of an integrated system to support sustainable development is also in its early stages. The newly launched multilateral framework, **The Moonshot**, supports system integration throughout the entire life cycle of floating offshore wind power generation. It will actively promote collaboration by working with numerous existing organisations and groups, as well as listening to companies and individuals in the six founding member countries and industry experts worldwide who believe in the potential of floating offshore wind.

The Kyoto Round, which brought together renowned industry experts from various sectors for intensive off-site discussions, presented participants with a valuable opportunity. It provided ample scope for new insights and fostered high hopes for future initiatives. The six organisations partnering in **The Moonshot** will continue to collaborate, contributing to the development of various international frameworks for the commercial development and industrialisation of floating offshore wind.

2nd FLOWRA International Forum

Date: 28th October 2025
Venue: Otemachi Place Conference & Hall, Tokyo
Hosted by: Floating Offshore Wind Technology Research Association (FLOWRA)
Participants: Approx. 400 people attended from embassies in Japan, Japanese ministries, and academia as well as industry of Japan and of global market

The Moonshot “Kyoto Round”

Date: 29th-31st October 2025
Venue: Kyoto Garden Palace Hotel, Kyoto
Co-Hosted by: 6 entities organizing **The Moonshot** initiative
Participants: Approx. 60 industry experts, nominated by the 6 entities organizing **The Moonshot** initiatives



Group photo taken on the second day of Kyoto Round

Team DI Energy: Hans Peter Slente (DI Danish Energy Industries), Jan Behrendt Ibsø, and Masaki Nagasawa (COWI), Jacob Berg Jørgensen (DHI), Peter Constantin Brun (DNV Denmark), Morten Willaing Jeppesen (DTU Wind), Benjamin Pjedsted Pedersen (FORCE Technology), Denis Matha (Ramboll), Per Christian Hyldahl (Stiesdal), Jacob Navarro Rasmussen (Embassy of Denmark in Japan), William Lim (Danish Energy Agency)

Team FLOWRA: Masakatsu Terazaki, Kiyohiko Ko, Atsushi Yamashita, Takashi Mochizuki, Takehiko Inagaki, Hiroshi Seno, Mototsugu IKARI, Shinya Nagaoka, Agustin Garcia, Koushi Ohta, and Yoshihiko Sugiura (FLOWRA), Ryota Wada and Ken Takagi (Tokyo University), Shinichiro Abe (Ramboll), Mitsuaki Okubo (Mitsui OSK Lines), Yuta Nakamura (Nippon Yusen Kabushiki Kaisha), Hiroyasu Dojima (K Line Wind Service)

Team France Energies Marines: Herveline GABORIEAU, and Jean-françois FILIPOT (France Energies Marines), Marc GUYOT (EOLINK), Christophe MAISONDIEU (IFREMER), Nicolas RELUN (EDF Power Solutions), Nemanja Komatinovic (EDF Power Solutions Japan KK), Immanuel CAPANO (SAITEC), Pierre CHAUVIERE (BUREAU VERITAS), Alexia AUBAULT (OCERGY), Philippe THIEFFRY (France Offshore Renewables)

Team Holland Home of Wind Energy: Arjen Schutten (Holland Home of Wind Energy), Sebastiaan Mulders (TU Delft), Feike Savenije (TNO), Désirée Plenker (Deltares), Susanne Kovar (Primo Marine), Jaymes Sim (MOOREAST), Erik-Jan de Ridder (MARIN)

Team Innovation Norway: Per Christer Lund (Innovation Norway / Embassy of Norway in Japan), Sille Grjøtheim (DNV Norway), Arvid Nesse, and Cecilia Girard-Vika (NOW - Norwegian Offshore Wind), Mads Vedøy (M. A. Vedøy), Gard Hansen, and Nuno Fonseca (SINTEF Ocean), Masayoshi Takayama (Source Galileo Norge), Hans Hansen (Fred.Olsen Windcarrier)

Team ORE Catapult: Andrew Macdonald, David Findlay, and Jonathan Hughes (ORE Catapult), Maurizio Collu (Strathclyde University), Martyn Hann (Plymouth University), Mark Hamilton (EMEC), Nigel Robinson (Apollo), Neil Morgan (Lloyds Register), Olivia Burke, and Jan Mathieson (Carbon Trust), John Palmer (Clarkson's Port Services), Yuki Yoshida (Department of Business and Trade of United Kingdom)

Comment by Henrik Stiesdal, founder and CTO of Stiesdal and board member of DI Danish Energy Industries

Floating offshore wind is developing rapidly, but efforts in key countries remain uncoordinated, and valuable advancements that could be accelerated through cooperation may be missed. We therefore view The Moonshot as a bold and timely initiative that brings together an ideal combination of competence and ambition, helping to pave the way for growth and cost reductions.

The Kyoto Round has established a valuable and robust reference point for promoting progress across a range of areas, supporting the growth and maturation of the industry, and accelerating the deployment of floating offshore wind to strengthen energy security and advance the green transition worldwide.

Comment by Mr. Masakatsu TERAZAKI, Chairperson of the Board, FLOWRA

Although floating offshore wind is expected to become widespread in the future, there are still many technical challenges to overcome before it can be implemented on a large scale. Currently, each nation is pursuing independent development. However, many of these challenges are common to all, making international cooperation essential for research and development, demonstration projects, and standardisation efforts. Against this backdrop, the formation of the Moonshot, a unique multilateral collaboration involving six nations, is highly significant. We expect collaboration between **The Moonshot** partner organisations, each bringing their own strengths and areas of expertise, to accelerate the resolution of technical challenges in floating offshore wind.

As an initial concrete step, the **“Kyoto Round”** workshop facilitated broad discussions. Topics covered included the status and challenges of technical studies and approaches to engaging national governments on institutional and financial matters. We believe these discussions advanced mutual understanding, clarified challenges and built personal networks. We particularly welcome the decision of The Moonshot's partner organisations to compile the technical information currently scattered across the globe, as we consider this to be a significant development.

Comment by Ms. Herveline GABORIEAU, Chief Executive Officer - FEM

France strongly supports the development of floating offshore wind energy through a structured program that has materialized today with three pilot farms built and three commercial farms awarded. Industry and research centers have started to organise themselves at the national level to tackle the numerous challenges raised by this emerging industrial sector.

The international alliance is fully aligned with this momentum, as the challenges are numerous and shared among countries, with the goal of de-risking floating offshore wind and making the sector competitive. Collaboration between our countries will support the setup of a common framework for the commercialisation and industrialisation of floating wind energy.

Comment by Mr. Arjen Schutten, Managing Director – HHWE

The shallow waters of the Netherlands do not need to deploy floating technology as they are suitable for fixed-bottom projects. Yet, the established marine and offshore wind expertise of the Netherlands pose an opportunity to support the global development of floating offshore wind.

Each country within the multilateral framework of the **Moonshot** has its unique value proposition. International collaboration is key. I firmly believe that by pooling our resources, we can shorten learning curves and break the barriers in floating offshore wind.

The **“Kyoto Round”** workshop exceeded the expectations of the Dutch delegation, consisting of Deltares, MARIN, TNO, TU Delft, Mooreast, Primo Marine and HHWE, now officially part of Maritime & Offshore NL. A journey of a thousand miles starts with a single step. We’ve already taken the first step by implementing the **Kyoto Round**, and now we must build on this momentum.

Comment by Mr. Per Christer Lund, Energy and Technology Counsellor - Innovation Norway

With 50 years of offshore oil and gas industry and 15 years of floating offshore wind experience, Norway brings to the global offshore wind table a well-developed ecosystem of subsea and maritime developers and service companies. The Moonshot is an excellent framework for the Norwegian contingent to share experience and discuss challenges and solutions with peers from Japan and Europe to accelerate floating offshore wind globally. The initial Norwegian delegation covers the value chain from research, via test and demo sites, class and certification, maritime operations to developer, including DNV, Fred. Olsen Windcarrier, Vedøy AS, Norwegian Offshore Wind / MET Center, Sintef / Norwegian University of Science and Technology and Source Galileo. Moving forward with the Moonshot framework, we appreciate extended engagement from and with offshore wind industry in Japan, Europe and other market.

Comment by Mr. Andrew Macdonald, Director of Development & Operations - ORE Catapult

"Offshore Wind is set to be the backbone of the UK's electricity generation system in all scenarios that achieve the UK's net-zero target by 2050. Whilst continuing to be a leader in the deployment of fixed bottom offshore wind, there will be a need for the UK to utilise deeper waters through the development of competitively priced floating wind. For this to happen, there are still a number of technical challenges to overcome, ranging from cables, mooring lines and system integration, through to industrialisation of foundations. No one country can solve all of these problems alone and the six nations of the Moonshot programme each add unique industrial, research and development capabilities that can work together to accelerate the deployment of floating wind."

The Moonshot

2025年10月28日
浮体式洋上風力技術研究組合

28th October 2025
Floating Offshore Wind
Technology Research Association
“FLOWRA”



From “The Moonshot” presentation made by FLOWRA on 28th October 2025

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