

## **Launch of the Floating Offshore Wind Technology Research Association**

With Japan committed to maximising the use of renewable energy to achieve a carbon-neutral society by 2050, offshore wind is expected to become the major renewable energy resource due to its potential for serial installation, reduction of future generation costs and economic ripple effects.

In Japan, which has the world's sixth largest exclusive economic zone, floating offshore wind has received particular attention as a means of providing both stability and sustainability to the energy supply, as well as stimulating the local economy, promoting existing strengths in Japanese industrial technologies and creating new industries.

On the other hand, there are a number of challenges associated with floating offshore wind, such as: designing infrastructure that can withstand the long distance from shore as well as Japan's weather and sea conditions; developing infrastructure such as adequate seaports; supply chains to support the offshore wind business; and developing legal systems to improve the predictability of the project. These challenges are too difficult for individual developers to solve, so it is expected that central and local governments, institutions, developers and supply chain companies will work together to solve these issues.

Taking into account both the discussion at the previous Floating Offshore Wind Industry Strategy Study Group, hosted by Japanese government on the need to establish a collaborative system in Japan, and the fact that the JIP method (= joint research and development method led by operators) has been promoted in Europe to reduce the costs and risks of floating offshore wind energy, the following fourteen companies (in alphabetical order) would like to announce that the Floating Offshore Wind Technology Research Association has been established, held its first meeting and commenced its activities today: Chubu Electric Power Co; Cosmo Eco Power Co; Electric Power Development Co; Eurus Energy Holdings Corporation; Hokuriku Electric Power Company; JERA; The Kansai Electric Power Company; Kyuden Mirai Energy Company; Marubeni Offshore Wind Development Corporation; Mitsubishi Corporation Offshore Wind; NTT Anode Energy Corporation; TEPCO Renewable Power; Tohoku Electric Power Co; and Tokyo Gas Co. The objective of the association is to realise large-scale commercialisation of floating offshore wind over a wide area, contribute to the realisation of a carbon-neutral society and support the creation of a domestic industry with a view to overseas markets by working on issues to reduce costs and risks and by promoting technological development in the commercial development of floating offshore wind.

We will continue to work on the research and development of common basic technologies and the reduction of costs and risks, including alliance with other countries, based on the knowledge and technologies of the association members with guidance and cooperation from all relevant stakeholders, in order to materialise the smooth and steady introduction and popularization of floating offshore wind. While shaping and strengthening the common basic technologies together, the association members will separately endeavor to materialise commercialisation of floating offshore wind by utilising the those technologies and by conducting further free and fair research and development.

**<Outline of the Floating Offshore Wind Technology Research Association>**

1. Name Floating Offshore Wind Technology Research Association [FLOWRA]  
(approved by the Minister of Economy, Trade and Industry)
2. Location Urbannet Uchisaiwaicho Building, 1-1-13 Shimbashi, Minato-ku, Tokyo
3. Members Chubu Electric Power Co; Cosmo Eco Power Co; Electric Power Development Co; Eurus Energy Holdings Corporation; Hokuriku Electric Power Company; JERA; The Kansai Electric Power Company; Kyuden Mirai Energy Company; Marubeni Offshore Wind Development Corporation; Mitsubishi Corporation Offshore Wind; NTT Anode Energy Corporation; TEPCO Renewable Power; Tohoku Electric Power Co; and Tokyo Gas Co.  
(in alphabetical order)
4. Chairperson Masakatsu Terazaki (Executive Officer and General Manager, Green Power Generation Division, NTT Anode Energy Corporation)

#### <Missions of the Floating Offshore Wind Technology Research Association>

1. Joint research and development in collaboration and co-operation with the association members, relevant manufacturers and institutions on the following themes which form the common basis for floating offshore wind development.

- a. Development of optimal design criteria and standardisation for floating systems
- b. Development of serial production technologies for the floating systems
- c. Development of mooring and anchoring technologies in deep water
- d. Development of power transmission technologies in deep water
- e. Development of observation method for offshore wind in deep sea
- f. Research and surveys on other common industry issues, etc.

2. Alliance with overseas organisations for having international standardisation of the technical systems to be created..

#### <Message from the Chairperson, Mr. Masakatsu Terazaki>

I am delighted that the Association has been organised among the operators to take on the challenge of solving industrial issues for the early deployment of floating offshore wind, and I am humbled by the great responsibility of being appointed to play the role of facilitator.

The challenges facing floating offshore wind are complex and varied, we will not only develop the technology that will form the common foundation, but also fulfil our role as an 'accelerator' for the growth and development of the floating offshore wind market through the activities of this association. In addition, we will promote activities leading to the international standardisation of the technologies and systems we have developed and the promotion of the Japanese industry through cooperation with regulatory authorities and related industries, as well as by deepening our efforts in Europe, the US and other overseas countries. We look forward to your guidance and support.

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#### ■ Enquiries.

Floating Offshore Wind Technology Research Association

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