

Overview Participants Japan Wind Power Association Visit to the Netherlands

Organisation	Core business and website
Japan Wind Power Association (JWPA)	<p>JWPA is established in 2010 and is representing the interests of wind power industry in Japan. The aim of JWPA is to promote wind power and secure the energy security of the country. As independent association JWPA is more or less comparable with NWEA in the Netherlands.</p> <p>Website: http://jwpa.jp/englishsite/jwpa/force.html</p>
National Institute of Advanced Industrial Science and Technology (AIST)	<p>AIST is one of the largest public research organisations in Japan. AIST offers a broad palette of energy related research, including wind energy and enabling technologies for interconnection of renewable in the electric grid. In 2014 AIST has opened a new research facility in Koriyama, Fukushima, named the Fukushima Renewable Energy Institute AIST (FREA). The mission of FREA is to promote (international) cooperation in R&D in renewable energy an make a contribution to industrial clusters and reconstruction.</p> <p>Website: http://www.aist.go.jp/index_en.html</p>
New Energy and Industrial Technology Development Organization (NEDO)	<p>NEDO is Japan's largest public management organization promoting research and development as well as deployment of industrial, energy and environmental technologies. As Independent Administrative Agency, NEDO has approximately 1,000 personnel and domestic offices in Hokkaido, Kansai, and Kyushu and international offices in Washington D.C., Silicon Valley (California), Paris, Beijing, Bangkok, Jakarta and New Delhi. The vast majority of its budget is provided by Japan's Ministry of Economy, Trade and Industry (METI).</p> <p>Website: http://www.nedo.go.jp/english/</p>
Wind Energy Institute of Tokyo (WEIT)	<p>Since its establishment in 2004, WEIT has provided a variety of services such as wind resource assessment and load analysis for wind turbine structures, making WEIT renowned as a leading technical institute for wind energy systems. WEIT has also been involved in multiple successful wind energy projects in complex site conditions common in Japan's geography such as typhoon and earthquake environments, delivering an array of services including feasibility study investigations and system standardization. In January 2015 ClassNK signed a cooperation agreement with WEIT and acquired about 30% of WEIT's shares.</p> <p>Website: http://www.windenergy.co.jp/cn2/hp_en.html</p>
Mitsubishi UFJ Lease & Finance	<p>Mitsubishi UFJ Lease & Finance is mainly engaged in the financial</p>

	<p>business. The Company operates in two business segments. The Customer Finance segment is engaged in the finance lease and instalment sale of machinery, equipment and fixtures, as well as the provision of monetary loan services and other related financial services. The Asset Finance segment is engaged in the operating lease of machinery and transportation equipment, the investment and loan businesses related to real estate, the management of securities, the finance business related to aircrafts and ships, as well as the leasing of office buildings. The energy service company of Mitsubishi UFJ Lease & Finance supports wind power projects.</p> <p>Website: http://www.lf.mufg.jp/english/</p>
ClassNK	<p>ClassNK (Nippon Kaiji Kyokai), is a ship classification society. Since 2011, ClassNK offers certification services for onshore and offshore wind turbines and over the years Class NK has expanded its activities to include the verification and certification of offshore wind farm projects and marine renewables. ClassNK conducted classification surveys and certification services for the world's first floating offshore wind project which was built as a demonstration project off the coast of Fukushima.</p> <p>Website: http://www.classnk.or.jp/hp/en/index.html</p>
Eurus Energy Japan Corporation	<p>Eurus Energy Holdings Corporation is a holding company of the Eurus Energy Group, Japan's largest wind power developer. Eurus Energy is has many wind power projects in the United States, the United Kingdom, Italy, Spain, Norway, Japan, South Korea and Australia. Eurus Energy Europe office has just been established in the WTC Amsterdam aiming to expand and strengthen its business in Europe. Eurus Energy Japan Corporation, a 100% subsidiary of Eurus Energy and is owner of more than twenty wind energy projects in Japan.</p> <p>Website: http://eurus-energy.com/en/index.html</p>
Hitachi Ltd.	<p>Hitachi acquired the wind energy business from Fuji Heavy Industries in 2012. In the field of wind power generation, Hitachi supplies wind turbines that use a highly reliable downwind turbine configuration to achieve a high level of generation efficiency in mountainous regions. It is also working on further developments, including deployment in offshore wind farms and upsizing the technology. Hitachi also participated in the development of the Fukushima Floating Offshore Wind Farm Demonstration Project, a national project in Japan that has been carried out by a consortium of ten corporations and a university. Hitachi provided 2MW wind-turbines and 66kV (kilovolt) floating power sub-station.</p> <p>Website: http://www.hitachi.com/products/power/wind-turbine/index.html</p>

Japan Marine United Corporation (JMU)	<p>JMU was established in January 2013 through the merger of Universal Shipbuilding Corporation and IHI Marine United Inc. The company designs, manufactures, purchases, and sells ships, naval and patrol vessels, and marine floaters in Japan. It designs and builds container ships, tankers, bulk carriers, liquefied gas carriers, special ship and small boats, and cruise ships and car ferries. JMU also constructs offshore support vessels and offshore structures. As a participant in the first phase of the Floating Offshore Wind Farm Demonstration and Research Project, JMU constructed, towed and installed a 25 MVA floating substation.</p> <p>Website: https://www.jmuc.co.jp/en/</p>
Japan Renewable Energy (JRE)	<p>Independent power producer JRE was established in August 2012 with a capital investment by the Goldman Sachs Group. It engages in the development, building and operation of domestic wind, solar and other renewable energy projects. Other activities are preliminary surveys, planning, operation, maintenance checks and electricity selling operations related to power plants (wind power generation, solar power generation, etc.).</p> <p>Website: http://www.jre.co.jp/ (only in Japanese)</p>
Kajima Corporation	<p>Kajima Corporation (Kajima) is one of five major Japanese construction companies. As EPC contractor Kajima has been responsible for the construction of the Iwaya Wind Farm in the Tohoku region of northern Japan. With a total generation capacity of 32.5 MW, this is one of Japan's largest onshore wind farms. Kajima's Research & Development Institute developed a new wind prediction technology, which utilizes the latest numerical wind prediction method drawing on meteorological data from the upper air, and topographical and land use data to determine the best locations in a very short time.</p> <p>Website: http://www.kajima.co.jp/english/welcome.html</p>
Kokusai Kogyo Co. Ltd. (related to City of Kitakyushu)	<p>Kokusai Kogyo Co., Ltd. (Kokusai in short) is one of Japan's leading consultancy firms. The company offers consulting services specializing in highway engineering, agriculture and ground water development, sabo engineering, waste disposal management, environmental studies, land use, regional and urban planning. Kokusai has built up vast experience in wind power consulting at sites throughout Japan. The company provides consulting solutions for public sector policy development like feasibility studies, site surveys and environmental impact assessments.</p> <p>Website: http://www.kkc.co.jp/english/</p>
Obayashi Corporation	<p>Obayashi Corporation (Obayashi) is one of five major Japanese construction companies. Obayashi was also one of the first</p>

	<p>major construction companies to enter the renewable energy business. Currently Obayashi is involved in two offshore wind parks in Japan that has been won by Marubeni Corporation. The site is off the coast of Akita Prefecture, in the northern part of Honshu, Japan's largest island. The 65 MW site is near the Akita port and will have thirteen 5 MW turbines. An 80 MW park will have sixteen 5 MW turbines, and will be located near Noshiro port. Both parks should be operating in 2021.</p> <p>Website: http://www.obayashi.co.jp/english/about/</p>
Orix Corporation	<p>ORIX Corporation provides comprehensive financial services throughout the world. The Company's business lines include leasing, real estate loans, life insurance, banking, and consumer finance. The Company also operates Environment related business and Private equity investment business. They invested already 16 years ago in wind energy. ORIX aims to become one of Japan's largest renewable energy provider in the next five years by developing diverse power sources including solar, geothermal, wind, and biomass power plants.</p> <p>Website: http://www.orix.co.jp/grp/en/</p>
Penta-Ocean Construction Co., Ltd	<p>Penta-Ocean Construction Co., Ltd. is a general contractor operating nationwide and overseas. The Company performs large-scale waterfront and land civil engineering works. Penta-Ocean is developing its wind-power generation construction business, which will encompass power generation at sea and along coastlines, in addition to expanding wind generation facilities on land. The company have their own dedicated vessels for carrying out projects.</p> <p>Website: http://www.penta-ocean.co.jp/english/</p>
RENOVA Inc.	<p>RENOVA Inc. provides environmental consulting services. The company offers carbon offset services. The company also engages in matching between companies that generate waste materials and companies that dispose and recycle them through recycle related online trading market. Renova provides research and consulting service both to the government and public corporations for their environment related issues. RENOVA is active in wind power development both onshore and offshore.</p> <p>Website: http://www.renovainc.jp/en/</p>
Shimizu Corporation	<p>Shimizu Corporation is a general contractor operating nationwide</p>

	<p>and overseas. The Company builds residential, commercial, and institutional buildings. Shimizu also performs civil engineering works for roads and operates real estate businesses. Shimizu is involved in the Fukushima project. In a joint venture with Nippon Steel & Sumikin Engineering Co., Ltd, Shimizu is responsible for the towing and the anchoring of the floating offshore wind turbine equipment , the laying and the burying of a submarine cable, the anchoring sea area and the connection of the power generation equipment and the substation equipment with the riser cables.</p> <p>Website: http://www.shimz.co.jp/english/</p>
Mutsuogawara Offshore Wind Power Development Co. Ltd.	<p>Aomori Prefectural Government Port authority of Mutsu-Ogawara Port selected Mutsuogawara port offshore wind power development Co. Ltd. as official developer of the 80 MW offshore windfarm in the renewable energy area of Mutsu-Ogawara Port.</p>
Toko Denki Koji	<p>Toko Denki Koji, K.K. was founded in 1987. The company's line of business includes providing electrical work and services.</p>
Japan Port Consultants	<p>Japan Port Consultants, Ltd. (JPC), the forerunner of port engineering in Japan, is the most authoritative and prestigious private consulting engineering firm specializing in the fields of port, coastal and offshore works. Since its establishment in April 1961, JPC has taken part in most of the major port development projects in Japan, winning sustained confidence of governmental authorities, port authorities and port-related industries as the most reliable port engineering specialist. During 50 years of operation, JPC has accomplished over 20,000 consulting and engineering assignments .</p> <p>Website: http://www.jportc.co.jp/modules/outline1/</p>
Dokai Marine Systems	<p>Dokai Marine Systems is an integrated marine service provider. The company is engaged in a wide range of marine activities, from harbor tug services to submarine cable related services, oil industry related services, and oceanographic survey.</p> <p>Website: http://www.dokai.co.jp/e/index.html</p>
Nippon Survival Training Center / Nissui Marine Kougyou	<p>Nippon Survival Training Center (hereinafter, NSTC) through employment of offshore survival training in accordance to internationally recognized standards, endeavors to assist any persons, associated with the world's offshore industries, acquire the needed skill sets so that they may react accordingly and</p>

	<p>survive when accidents may occur. NSTC further contributes to the development of an increasingly sounder and safer offshore industry.</p> <p>Website: http://n-s-t-c.com/</p>
Kumagaya Gumi	Kumagaya Gumi is a construction company
Japan Electrical Manufacturers' Association (JEMA)	<p>The Japan Electrical Manufacturers' Association (JEMA) consists of major Japanese companies in the electrical industry including: power & industrial systems, home appliances and related industries. The products handled by JEMA cover a wide spectrum; from boilers and turbines for power generation to home electrical appliances.</p> <p>Website: http://www.jema-net.or.jp/English/</p>
Toyo Construction Co. Ltd.	Toyo Construction Co. Ltd. is engaged in the sea-land civil engineering and construction activities. It is also involved in the real estate business. The company was founded in 1929 and is headquartered in Tokyo, Japan. The company is interested in the set-up of offshore wind turbines.
Electric Power Development Co., Ltd (EPDC) - J-Power	<p>J-Power generates, transmits, distributes, and sells electric power using hydroelectric, wind-power, nuclear, coal-fired and other thermal power stations throughout Japan.</p> <p>Website: http://www.jpowers.co.jp/english/index.html</p>
Special High Place Technical Service	<p>Special High Place Technical Service produces vertical rope-access service for wind turbine O&M.</p> <p>Website: http://www.tokusyuu-kousyuu.co.jp/index.html</p>
Ocean Works Asia Inc. (OWA)	<p>OWA is the largest independent commercial diving Service Company in Japan and delivers underwater services to the offshore oil and gas industries, Electric power industries, Offshore contractors, and marine & river civil engineering contractors. Activities include Deep Sea Diving System, Underwater Welding, Underwater Rock Cutting etc. OWA also introduced SAT System and original underwater construction robot (crane) by expanding hydraulic and controlling techniques and skills.</p> <p>Website: http://www.owa.co.jp/en/index.html</p>

<p>Nakabohtek Corrosion Protecting</p>	<p>Core business of Nakabohtek Corrosion Protecting is survey, analysis, design, engineering, and material supply for protecting metallic structures from corrosion.</p> <p>Website: http://www.nakabohtec.co.jp/english/</p>
<p>Nomura Research & Advisory Co. Ltd.</p>	<p>Nomura Research & Advisory Co. Ltd. provides Initial Public Offering research, business consulting, and venture capital services. The company offers financial support, industry research, and IPO-related support services to unlisted companies. The company is based in Tokyo, Japan. Nomura Research & Advisory Co., Ltd. operates as a subsidiary of Nomura Holdings Inc.</p> <p>Website: http://www.nomuraholdings.com/company/group/nr-a/</p>