INVITATION FOR EXTERNAL WORKSHOP

National Test Centre for Offshore Wind Turbines at Dhanuskodi

13 October 2022
10:00 AM - 1:30 PM (IST) / 6:30 AM – 10.00 AM (CEST)
Venue: National Institute of Wind Energy (virtual participation upon request)

Dear Sir / Madam,

The National Institute of Wind Energy (NIWE) of India, Danish Energy Agency (DEA), Embassy of Denmark in India and the Danish Technical University (DTU) would like to invite you to a workshop to discuss regarding National Test Centre for Offshore Wind Turbines at Dhanuskodi. The workshop is part of the activities initiated last year within Working Group 4 of the Indo-Danish Centre of Excellence for Offshore Wind and Renewable Energy and will continue under India-Denmark Energy Partnership.

This workshop will introduce the project and present the findings of the National Offshore Test Centre Survey Questionnaire & Short Interview with Stakeholders. The Survey Questionnaire has been forwarded across many different stakeholders in the wind energy spectrum to understand the needs of the wind industry and the scope and relevance of the National Test Centre for offshore wind turbines at Dhanuskodi.

The goal of the workshop is to receive your valuable inputs, knowledge and feedback from the wind energy industry on their testing needs for the Indian offshore wind market, interact with all the stakeholders involved and agree on the further steps for driving the process forward.

The workshop will be convened at NIWE, Chennai and on request you can participate online via a link provided. The workshop programme along with a short description of Dhanuskodi can be found attached herewith. Expected participants will be from the Ministry of New and Renewable Energy, National Institute of Wind Energy, Embassy of Denmark in India, the Danish Energy Agency and the Danish Technical University & Wind Turbine OEMs, IPPs and other interested Stakeholders.

Please register your participation by 10th October to Shri N. Rajkumar (rajkumar@niwe.res.in)

Sincerely,
Shri J.C. David Solomon, Director & Division Head, M&T Division, NIWE, India.

AGENDA (in IST)

Time	Agenda point	Speaker(s)
10.00 AM - 10.15 AM	Welcome and opening remarks	**Dr. K. BALARAMAN**, Director General, National Institute of Wind Energy (NIWE) **Dr. Prabir Kumar Dash** (*), Scientist - D, Wind Energy Division, Ministry of New and Renewable Energy(MNRE) **Mr. Simon Engfred Schlichting**, Country Team Leader, Danish Energy Agency
10.15 AM - 10.45 AM	Relevance of Dhanuskodi Test Center & Wind Conditions at Dhanuskodi site Following the presentation there will be time for questions, comments and answers	**Mr. J.C. David Solomon**, Division Head, Measurements & Testing Division, NIWE **Mr. J. Bastin,** Unit Chief, OWD & DA,NIWE
10.45 AM - 11.15 AM	Greening of Rameshwaram – Planning for EIA, Logistics, Power evacuation Following the presentation there will be time for questions, comments and answers	**Dr. K. Boopathi,** Division Head OWD, DAF & IT Division, NIWE **Mr. Bhukya Ramdas,** Unit Chief, Electrical Characteristics Testing, NIWE
11.15 AM - 11.55 AM	Survey, Short interviews with stakeholders for Dhanuskodi Site & Key Points from Internal Workshop Following the presentation there will be time for questions, comments and answers	**Mr. Niels-Erik Clausen**, Associate Professor, Wind Energy System Division, DTU Wind **Mr. N. Rajkumar**, Unit Chief, Testing, NIWE
Tea break (15 minutes)		
12.10 PM - 12.40 PM	Østerild Test Center: Lessons Learned in Setting up a Test Center for Offshore Wind in Denmark and how this could be used and applied in India. Following the presentation there will be time for questions, comments and answers	**Mr. Peter Hjuler Jensen**, Deputy Head, Department of Wind Energy, DTU Wind
12.40 PM - 01.15 PM	Input from a number of relevant stakeholders e.g. OEMs and/or other suppliers / stakeholders During and after these presentations there will be time and option for questions, comments and answers	**TBD**
01.15 PM - 01.25 PM	Summary of the prefeasibility study including the outcome and conclusions from the recent interviews held.	**Mr. N. Rajkumar,** Unit Chief, Testing, NIWE **Mr. Bhukya Ramdas,** Unit Chief, Electrical Characteristics Testing, NIWE
01.25 PM - 01.30 PM	Vote of Thanks	**Mr. J.C. David Solomon,** Division Head, Measurements & Testing Division, NIWE
Networking lunch (60 minutes)		

(*) – participation to be confirmed.

Background of the National Test Centre for Offshore Wind Turbines at Dhanuskodi

The Indian and Danish government initiated a government-to-government partnership in 2018 within offshore wind power to collaborate on developing the Indian offshore wind industry. The Indian partners are Ministry of New and Renewable Energy, the National Institute of Wind Energy, while the Danish partners are the Ministry of Climate, Energy and Utilities and the Danish Energy Agency (DEA). Through the partnership, the joint Indo-Danish Centre of Excellence for Offshore Wind and Renewable Energy was developed and was inaugurated by Honorable Minister R.K. Singh and Honorable Minister Dan Jørgensen on 9th September 2021.

The knowledge acquired and lessons learned during the development of wind power in Denmark for more than 25 years, in particular offshore wind power, can be valuable to the Indian government in establishing and expanding the country's offshore wind sector and enabling it to achieve its renewable energy goals. Therefore, the National Institute of Wind energy has expressed a strong desire to gain value from the Danish experience and draw lessons learned from the planning and operation of Denmark's Offshore Wind Test Center Østerild. The Technical University of Denmark - Wind Energy is responsible for the operation and maintenance of the centre. The operation of the test centre is done in close cooperation with industry and authorities.

For defining the full scope and objective of the National Test Centre for Offshore Wind Turbines at Dhanuskodi, the National Institute of Wind Energy has launched a questionnaire survey to know the views of all Stakeholders in the Offshore Wind Energy Development in India with respect to availing services related Testing and Certification of Wind engineering assets by using the facility to be developed at Dhanuskodi.