



Business Network for Offshore Wind Hydrogen Working Group

Setting the Scene

Green hydrogen presents a significant opportunity for reducing carbon and growing the offshore wind sector. Forbes magazine declared that the “green hydrogen revolution is underway” and projected hydrogen to be a \$130 billion industry in the U.S.

Coupling hydrogen production with offshore wind presents an enormous opportunity to reduce greenhouse gas emissions. Hydrogen is used in the production of ammonia, and fertilizers, as well as in other industrial processes. Globally, hydrogen production accounts for 70 million tonnes of greenhouse gases (GHG), more GHGs than Great Britain and Indonesia combined. Green hydrogen is a zero carbon alternative to fossil fuels in transportation, home heating, and heavy industry.

The market for Green Hydrogen is already developing. The European Union aims to build 40 gigawatts of green hydrogen electrolyzers by 2030 GW and Germany has a 10GW goal for Green Hydrogen from offshore wind. In the U.S., Atlantic Shores and Shell New Energies announced a 5-10 MW Green Hydrogen pilot project in New Jersey. Green Hydrogen presents an opportunity for Oil & Gas companies to transition to the green economy while using the expertise gained in the fossil fuel industry. It also presents an opportunity for natural gas fueled power plants currently fueled to transition to a zero carbon fuel.

Despite the large potential for Green hydrogen from offshore wind, there are challenges such as cost, policy barriers and unfounded safety concerns to overcome. A forum is needed for a discussion among the stakeholders to focus on identifying the most pressing industry needs and required response to ensure widespread adoption of Green Hydrogen.

Objectives

- Identify and discuss important initiatives of the industry to advance Green Hydrogen and its associated supply chain and stakeholders
- Develop solutions and industry responses to the most pressing industry needs that will enable this technology towards a competitive levelized cost of energy
- Utilize and review State strategies and consequently engage to prepare for Green Hydrogen and establishment of required local U.S. supply-chain and infrastructure
- Set a clear direction for the next years with a clear Annual Work Plan – a course of actions for industry and a subset of steps for the Business Network for Offshore Wind to implement during the calendar year

Attendance

Attendance is open to developers, OEMs and Tier 1 suppliers by invitation, application approval from the Working Group Chair and Committee, or membership in the Business Network. Attendance at meetings is limited to C-Level and Senior Executives and preferably one representative per company. The Working Group is chaired by a Member of the Network Board of Directors and an organizing committee will be comprised of Business Network Members.

Work Scope

1. Assemble the leaders of Hydrogen and Offshore Wind industry in the Working Group
2. Identify important initiatives of the industry to advance Green Hydrogen with the main focus on supply-chain and infrastructure as well as policies
3. Organize and develop an in-person annual meeting agenda, which will drive the annual work plan
4. Develop and publish a series of briefing papers and other educational materials (5-7 pages) to steer discussions across the U.S. Green Hydrogen stakeholder landscape
5. Utilize best practices from developments in Europe and Asia and invite outside subject experts as guest speakers to explore new approaches and align in development of Green Hydrogen
6. Determine sources and levels of funding for any identified actions, and prioritize the initiatives with allocation of actions needed to solidify and to grow the U.S. offshore wind Green Hydrogen sector including appropriate industry strategies and actions, which may also include requests to government, Joint Industry Partnerships with Academia
7. Develop an agreed upon annual work plan including assigning responsibilities within the Working Group and the Business Network for Offshore Wind to implement actions
8. Report results of the actions to the Business Network Board of Directors in a bi-annual meeting