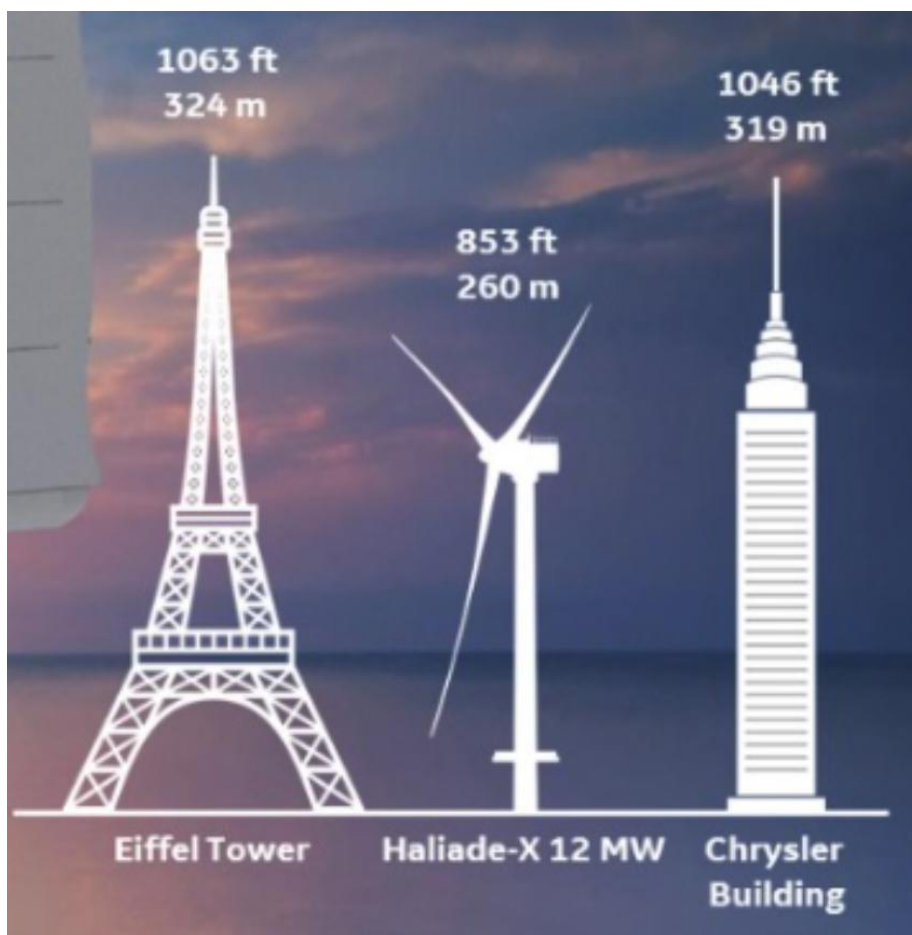


The Offshore Wind Masterclass

Strategies – Projects – Technologies

3 DAYS COURSE – 3 hrs per day



BACKGROUND & AIM: The aim of the course is to provide participants with a clear understanding of the key issues around Offshore Wind and include recent developments involving Hydrogen.

The course further investigates possible scenarios for offshore wind both floating and fixed and hydrogen and its pivotal role in decarbonisation and reaching net zero. Participants will be equipped with the necessary insight and skills to face future challenges in the wind, offshore wind and hydrogen industries and to put in place effective strategies for quantum growth in the interconnected industries as they move from a regional to global decarbonisation solution.

APPROACH: The course first sets the scene on the dramatic growth of offshore wind, and the pivotal role to be played across the globe by wind in all its forms and increasingly with hydrogen. It consequently explores in-depth fundamental aspects of seabed characteristics, availability of supply chain, infrastructure, hybrid project design effects and integration of electrolyzers on or offshore.

Also considered are oil and gas majors’ route to decarbonisation, the re-utilisation of assets, ammonia battery, and floating solar. Regulatory provisions for offshore and onshore wind and hydrogen characteristics and related policy issues. Participants will gain a clear view of what the requirements and alternatives (“options”) are for a hydrogen economy underpinned by offshore and onshore wind and the clustering principles which helped make them a recognised UK success story.

In its second session, the course covers a number of case studies, including Projects PosHYdon and DolPHyn and the business opportunities including supply chain engagement and regeneration options around the coast and beyond. Hybrid floating wind, artificial islands, hydrogen, solar and ammonia schemes are further investigated. Operational options for industrial sector coupling involving wind and hydrogen along with distribution factors are explored.

In its last session, the course explore innovations helping bring down the LCOE and look at future leasing rounds for the alternatives available, as well as possible business strategies that countries can put in place to position themselves in a decarbonized industry. This assessment builds on the takeaways of the first two sessions and lessons learned.

The course allows participants for regular interaction with the trainer and actual case studies to have practical knowledge and understanding of the topics covered in the course

TARGET AUDIENCE: The course is aimed at stakeholders and those wishing to move into working around or in the wind industry who is being affected directly or indirectly by the need to put in place decarbonisation measures. It is particularly aimed at personnel working on strategy and business development, fleet management, operations, regulatory and policy issues, investment and valuation, planning and scenario analysis.

INDEPTH, INFORMATION RICH COURSE

DAY 1	DAY 2	DAY 3
Framing the issue: Offshore Wind and the route to Net Zero	Industrial strategies for Offshore Wind, Floating Wind - and Hydrogen	Pathways and scenarios for Offshore Wind and Hydrogen
Setting the scene Where are we now with offshore Wind?	Case studies: The rise of the megaprojects	Pathways Innovation in O and M Offshore electrolysis Within turbine electrolysis

<p>20 years of learnings a UK success story The Sector deal and UK government commitment</p>	<p>Integrated technological approaches</p>	<p>Vessels The Energy island concept</p>
<p>Regulatory requirements, planning and policy issues</p>	<p>Green hydrogen How? What ? Where?</p>	<p>Lessons learned Through blue to green?</p>
<p>Hydrogen production and onshore Wind Offshore wind and hydrogen current and future global leasing</p>	<p>PosHYdon Westkueste SHYP DolpHYn</p>	<p>Hydrogen Ammonia LNG Methanol Synthetic fuels Battery Vessel/Wind assisted propulsion</p>
<p>Oil and gas to offshore wind, challenges and synergies</p>	<p>Saudia Arabia Project NEOM and the role of Ammonia</p>	<p>Global leasing rounds</p>
<p>Is it Floating v Fixed or Floating & Fixed Commercial realties for fixed and floating schemes</p>	<p>Scaling up through offshore wind and hydrogen – megaprojects</p>	<p>USA UK Scotwind Norway Netherlands Germany Japan South Korea</p>
<p>Transitioning of oil and gas assets Ammonia</p>	<p>From Ocean to customers and industry Innovation and LCOE</p>	<p>Cluster/hub vs value chain approaches)</p>
	<p>Design</p>	<p>Summary lessons learned and next steps</p>
	<p>Supply chain</p>	<p>Review, Final questions Close</p>