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Academy



# Offshore Wind Masterclass + Hydrogen Economy

LIVE ONLINE TRAINING

18 - 26 July 2024



Live Digital

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# Course Information

LIVE ONLINE TRAINING

July 2024

Part 1

18 July

Part 2

19 July

Part 3

25 July

Part 4

26 July

3pm - 6pm AEST

## Key Learning Objectives

- Understand commercial considerations involving offshore wind and the integration of hydrogen into a new generation of mega projects
- Know the techniques for the development and maintenance of offshore wind and hydrogen as part of the net zero agenda
- Appreciate the practical risks and opportunities associated with the production and use of offshore wind, especially the production of hydrogen.
- Learn what are the challenges around the offshore wind and hydrogen industry
- Examine fixed and floating designs and their integration with hydrogen production
- Explore real-world projects integrating offshore wind and hydrogen
- Grasp the differing perspectives of the investor, the operator, the customer and the government
- Recognise the political and diplomatic implications of international trade in green hydrogen, including recent trends.
- Review design, storage, and hydrogen transportation considerations
- Discover the characteristics that broaden yet constrain the commercial and technical links in the 'supply chain'.
- Consider various options for offshore wind and hydrogen market developments.

## About the Course

The offshore wind and hydrogen sector is expected to grow significantly across the globe in the coming years. The UK, for example, recently set a target to produce forty gigawatts of offshore wind and will require a vast supply chain encompassing turbine foundations and cabling infrastructure. Five gigawatts of hydrogen is also projected by 2030, representing a 40-fold increase within nine years for that sector.

The journey to a renewable, circular and low-carbon economy (facilitated by electrons, hydrogen and other technologies) will be challenging, and the very top priority will be implementing and delivering it safely. This offshore wind and hydrogen market masterclass details how global leaders can assist. Developers and stakeholders require their people and supply chain to possess the necessary skills and competencies to deliver hybrid offshore wind, solar, and hydrogen projects safely, on time and with the highest quality standards.

The course aims to enable companies and stakeholders to be aware of the fundamentals of offshore wind and hydrogen: What is it? What does it mean for the future? What are the challenges around the offshore wind and hydrogen sector? What decisions and plans are likely to be made based on emerging real opportunities? Participants will be guided as to where early opportunities are most likely to lie, who is involved and how to engage.

## Who Will Benefit

The offshore wind and hydrogen market masterclass will be invaluable to:

- Companies that are already part of the supply chain and those looking to future-proof their capabilities
- Project developers who are seeking to decarbonise and source green power
- Financiers
- The construction industry
- Original equipment manufacturers (OEMs)
- Balance of plant (BoP) organisations
- Engineering companies involved in storage, compression equipment and shipping
- Stakeholders from government, finance and consenting
- Businesses seeking to enter the energy arena with its myriad opportunities in a market set for exponential growth
- Any person wishing to learn more about the potential of these industries

# Meet Your Course Director

## Course Outline



**Charley Rattan**

Hydrogen and Offshore Wind Business Advisor and Trainer

The course is led by Charley Rattan, international hydrogen expert and respected energy insider and facilitator bringing over 25 years' real-world renewable experience and a track record of successful major project delivery. Charley is a trusted strategic advisor to global energy companies and an advocate and facilitator for the emerging innovation energy market.

Charley is respected as a leading authority in hydrogen and renewables providing consultancy and training at high level across the globe including for key stakeholders, governments, consenting authorities and world organisations such as the United Nations.

### SESSION 1

#### Setting the Scene:

- Where are we now with offshore wind?
- 20 years of learnings – a UK success story
- The Sector deal and UK government commitment
- Regulatory requirements, planning and policy issues

#### Hydrogen Production and Onshore Wind

- Offshore wind and hydrogen current and future global leasing
- Oil and gas to offshore wind, challenges and synergies

### SESSION 2

#### IS it Floating V Fixed or Floating and Fixed?

- Supply chain implications
- Transitioning of oil and gas assets

#### Industrial Strategies for Wind and Hydrogen

- Case Studies:
- The rise of the megaprojects
- Integrated technological approaches

#### Hydrogen

- The colours of hydrogen
- Pros and Cons of hydrogen
- The New entrants to the offshore wind market and their green hydrogen ambitions
- Net Zero

### SESSION 3

#### Green Hydrogen

- How? What? Where?
- PosHYdon
- Westkueste
- SHYP
- DolpHYn

#### Scaling up Through Offshore Wind and Hydrogen

- From ocean to customers and industry
- Innovation and LCOE
- Design
- Supply chain

### SESSION 4

- Pathways and scenarios for wind and hydrogen
- Cluster/hub vs value chain approaches
- Innovation in O and M
- Offshore electrolysis
- Within-turbine electrolysis
- Vessels

- The energy island concept

### SESSION 5

- Commercial realities
- Financial modelling
- Offshore wind, hydrogen, in combination
- KPIS and hurdles
- Contingency
- Project governance
- Lessons learned
- Through blue to green?
- Hydrogen
- Ammonia
- LNG

### SESSION 6

- Global leasing rounds
- USA
- UK
- Scotland
- Norway
- Netherlands
- Germany
- Japan
- South Korea

#### Course Summary and Close

- Summary lessons learned and next steps.
- Review, final questions and feedback

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## Easy Ways to Register



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[training@informa.com.au](mailto:training@informa.com.au)

## Offshore Wind Masterclass + Hydrogen Economy

Course Code	Location/ Format	Course Parts	Course Dates	Standard Price		<b>Great Savings:</b> When you book <b>4 or more</b> participants! <b>Call us</b> today on <b>+61 (2) 9080 4399</b> or email <b>training@informa.com.au</b> to take advantage of the discount offer.
P24GR40AUV	Live Digital	All 4 Parts	18 - 26 July 2024	\$2,395 + \$239.50 GST	<b>\$2,634.50</b>	

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## ABOUT INFORMA CONNECT ACADEMY

**Informa Connect**

# Academy

**Informa Connect Academy** is a premier provider of global education and training solutions that caters to a diverse range of professionals, industries, and educational partners. We are dedicated to promoting lifelong learning and are committed to offering learners expert guidance, training, and resources to help them stay competitive in a rapidly changing world.

Our comprehensive range of courses and programmes are tailored to meet the needs of all professionals, from aspiring specialists to seasoned experts. We partner with elite academic organisations and industry leaders with unmatched expertise in their respective fields to deliver an exceptional learning experience.

## ON-SITE & CUSTOMISED TRAINING

**Informa Connect Academy** has a long-standing track record of delivering very successful customised learning solutions achieving real and measurable value for our clients through our senior training consultants. If you have 8+ interested people, an on-site course can be the ideal solution – giving you the opportunity to customise our course content to your specific training needs, as well as attracting significant savings compared to public course costs.

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- 2. Quality assured** – We design market-leading training programs, concepts and methodologies, with a 400+ course portfolio. Our rigorously selected 900+ instructor faculty are recognised experts in their field. Quality of their content and delivery methods is assured through continuous monitoring and evolution.
- 3. On-site training** is a cost effective way to train your people and achieve your defined outcomes.

Speak with **Sushil Kunwar** on **+61 (2) 9080 4370** to discuss your customised learning solution, or email [inhouse@informa.com.au](mailto:inhouse@informa.com.au)

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