



An Essential Guide to Renewable Ammonia

LIVE ONLINE TRAINING | 12 - 13 June 2024 | 3 - 4 December 2024



Live Digital

REGISTER NOW

www.informaconnect.com/academy

Course Information

LIVE ONLINE TRAINING

June 2024

Part 1

12 June

Part 2

13 June

3pm - 6pm AEDT

December 2024

Part 1

3 Dec

Part 2

4 Dec

3pm - 6pm AEDT

Key Learning Objectives

- The importance of renewable ammonia
- Ammonia's role as a net zero driver
- Will it be green or blue hydrogen – or both?
- The current and future ammonia supply chain
- Zero-carbon bunker fuel opportunities
- Ammonia's potential long-term storage of renewable energy
- Plants and schemes under development/in the planning process
- How to do business with ammonia interests?
- The operations and maintenance, employment opportunities around ammonia
- Engaging with the ammonia, hydrogen and renewable industries
- The importance of EU directive (including the Green Deal, 2x40 GW)
- National nuances and their relevance for attendees
- The importance of stakeholders, NGOs and local community engagement
- Investor requirements and expectations

Overview

As we move towards zero-carbon, deep electrification combined with new applications for hydrogen promise to transform the way we live, work, and do business. Ammonia, sometimes referred to as the 'other hydrogen,' can be at the very forefront of this transformation. Making it in a sustainable, green manner can help revolutionise the way we think about energy, heating, transport and energy storage; creating new infrastructure and matching supply chains where huge opportunities await. The race is on for early entrants to the global ammonia market – our Renewable Ammonia Training programme ensures you won't be left behind.

Who Will Benefit

- Existing energy companies particularly those who are already part of the oil and gas supply chain and those looking to future-proof their capabilities will benefit from the Renewable Ammonia course
- The agricultural sector which is already familiar with ammonia as a fertiliser and well-placed to drive the industry forward
- Particularly relevant to engineering companies, those involved in storage compression equipment and shipping
- Companies seeking to enter the ammonia and energy arena with its myriad opportunities in a market valued, in one scenario, by the Bank of America at 11 trillion dollars

About the Course

Ammonia is an integral and crucial part of the emerging hydrogen economy, an industry that is expected to grow exponentially across the globe in the coming years. For example, the UK recently set a target to produce five gigawatts of hydrogen by 2030, representing a 40-fold increase from the current situation. This ambition is replicated worldwide where national hydrogen strategies, often explicitly citing the need for ammonia, are appearing on a weekly basis. The journey to a new, low emission energy system with a much greater role for hydrogen will be challenging and require much innovation. Early engagement with those developing low or zero-emissions ammonia projects will enable fast movers to reap the maximum from the opportunity presented.

The Renewable Ammonia course aims to provide a practical guide to enable companies to make informed decisions and plans based on the real opportunities that are emerging as the global hydrogen and ammonia economy develops. Delegates will be guided as to where early opportunities are most likely to lie, who is involved and how to get in front of them.

Meet Your Course Director



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.

Course Outline

GREEN AMMONIA

- CO2 emissions
- Ammonia and Netzero target setting
- Importance of renewable ammonia
- Ammonia production technology, production facilities
- Electrolysis of water
- Methane pyrolysis
- Green or blue hydrogen, advantages and disadvantages
- Current ammonia supply chain end-to-end
- Ammonia applications

POTENTIAL ROLE(S) OF AMMONIA IN DECARBONISING THE ENERGY SYSTEM

- Ammonia as a carrier to transport hydrogen
- Zero-carbon marine (bunker) fuel
- Long term storage of renewable energy

GREEN AMMONIA PROJECTS

- Demonstration plants
- Plants and schemes under development/ planning process
- New applications – research projects/project pipeline/future outlook
- Operations and maintenance, employment opportunities

GREEN AMMONIA PROJECTS – SUPPLY CHAIN CONSIDERATIONS

- Ammonia production for 'traditional' applications
- The extended hydrogen supply chain e.g., offshore, offshore floating wind, mega scale solar, electrolyzers
- Route to market – national and global opportunities for ammonia and hydrogen
- Who to talk to?
- How to do business?
- Engaging with the ammonia, hydrogen and renewables industries

POLICY AND REGULATORY PERSPECTIVES

- United Nations perspective
- EU directive
- National nuances

KEY STAKEHOLDER PERSPECTIVES

- International ammonia producers
- State owned ammonia producers: SAFCO, QAFCO, ASEAN Bintulu, Indonesia, China
- NGOs and local community engagement
- Investors

An Essential Guide to Renewable Ammonia

LIVE ONLINE TRAINING

12 - 13 June 2024 | 3 - 4 December 2024

Easy Ways to Register



www.informaconnect.com/academy



+61 (02) 9080 4399



training@informa.com.au

An Essential Guide to Renewable Ammonia

Course Code	Location/ Format	Course Parts	Course Dates	Standard Price		Great Savings: When you book 4 or more participants! Call us today on +61 (2) 9080 4399 or email training@informa.com.au to take advantage of the discount offer.
P24GT45AUV	Live Digital	All 2 Parts	12 - 13 June 2024	\$2,095 + \$209.50 GST	\$2,304.50	
P24GT45AU02V	Live Digital	All 2 Parts	3 - 4 December 2024	\$2,095 + \$209.50 GST	\$2,304.50	

Terms, Privacy Policy & Updating Your Details: Please visit us at www.informaconnect.com/terms-and-policies for terms and conditions and privacy policy. Database amendments can be sent to database@informa.com.au or call **+61 (2) 9080 4399**.

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.

WHY CHOOSE ON-SITE WITH INFORMA CONNECT ACADEMY?

- 1. Custom design** – Together, we will identify the best blended learning solution for your culture, your people and your training objectives.
- 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



+61 (02) 9080 4399



training@informa.com.au



www.informaconnect.com/academy