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A Practical Guide for Market Entrants - Hydrogen Economy

2 Part Series

February 2021		July 2021	
Course Parts will commence at **12:00** and end at **15:00 (SGT)**. There will be short breaks during each course Part.		Course Parts will commence at **12:30** and end at **15:30 (SGT)**. There will be short breaks during each course Part.	
Part 1: **25th February**	Part 2: **26th February**	Part 1: **22th July**	Part 2: **23rd July**

Delivered in **Live Online Training** Format

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.

Key Learning Outcomes & Case Studies Include

- Practical knowledge of the new hydrogen economy and its likely trajectory
- Hydrogen's role in the route to net zero
- How hydrogen can support the wind industry
- How ammonia will play a key role in the hydrogen economy
- Addressing hydrogen risks
- How hydrogen will integrate with the future gas grid
- Supply chain requirements what supplies, equipment and services will be needed, where and when
- The importance for the supply chain of the 'megaproject' and what they tell us about the hydrogen economic opportunity
- Key markers in the commercial development of hydrogen
- Gain awareness of the route to market
- How to prepare for effective engagement
- Local and global opportunities one near you?
- Tactics to overcoming hurdles to market entry.
- The requirement for a hydrogen strategy and model for your business

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Charley's 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 a the United Nations.

ABOUT THE COURSE

The hydrogen economy is expected to grow exponentially across the global 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 across the globe where hydrogen strategies are appearing on a weekly basis. The journey to a hydrogen economy will be challenging and innovation will be required however, early engagement with those commissioning projects will enable early movers to reap the maximum from the opportunity presented.

The 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 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.

COURSE OVERVIEW

As we move towards zero-carbon, new applications for hydrogen promise to transform the way we live, work, and do business. Emerging technologies will revolutionise the way we think about energy, heating, transport and energy storage; creating a new economic infrastructure and supply chain where huge opportunities await.

The race is on for early entrants to global hydrogen market – don'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
- Particularly relevant to engineering companies, those involved in storage compression equipment and shipping
- Those companies seeking to enter the energy arena with its myriad opportunities in a market valued by the Bank of America at 11 trillion dollars

- Module Commencement: **12:00pm** (SGT)
- Module Conclusion: **3:00pm** (SGT)

Timing is based in Singapore Time (GMT+8) unless otherwise stated. These timing schedules act as a guide and may be modified slightly on the depth of class discussion and whether assessments are being conducted.

Course Outline

THE HYDROGEN ECONOMY

- What is it?
- Types of hydrogen
- Hydrogen potential
- Hydrogen and the route to net zero

RENEWABLES AND HYDROGEN

- Wind to hydrogen
- Distribution of hydrogen
- Ammonia and hydrogen
- Shipping and hydrogen

PRACTICAL CONSIDERATIONS

- Making hydrogen safe for the gas grid
- Repurposing the gas grid
- Towards 100% hydrogen gas grid – Hydeploy programme
- Commercial considerations

SUPPLY CHAIN

- The rise of the circular economy
- Supply chains - what supplies, equipment and services will be needed, where and when?
- Gas grid requirements
- Timescales
- How will the hydrogen economy be implemented?

MARKET ENGAGEMENT

- Route to market
- Clustering principles
- 20% hydrogen versus 100% hydrogen
- Procurement strategies
- Aligning your company to purchaser requirements
- Who to talk to, how to do business?
- Overcoming the hurdles to market entry.
- Regional opportunities APAC dimensions, Australia, Japan, Singapore, India, Germany, Europe, the UK, USA
- Hydrogen strategies for your business
- National and global opportunities

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If you have **8+** interested people, an onsite course can be an ideal solution. Speak with **Anton Long** or **Holly Baldwin** on **+65 6508 2897** to discuss your customised learning solution, or email **sgtraining@informa.com**

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4 Easy Ways to Register

1. **Telephone**
   Customer Service Hotline +65 6973 3567
2. **Email**
   sgtraining@informa.com
3. **Fax**
   +65 6508 2407
4. **Web**
   www.informaconnect.com.sg/hydrogeneconomy

A Practical Guide for Market Entrants - Hydrogen Economy

Course Codes	Location	Course Dates	Standard Price	4+ Dels Discount
P21GR41SGV	Live Online Training	25 – 26 February 2021	SGD 1,495	**Great Savings:** When you book **4 or more** participants! **Call us** today on **+65 6973 3567** or email **sgtraining@informa.com** to take advantage of the discount offer.
P21GR41SGV02	Live Online Training	22 – 23 July 2021	SGD 1,495	

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Job Title:
Department
Tel: Mobile No.:
Email:

Delegate 2 Details

Name: Dr/Mr/Ms
Job Title:
Department
Tel: Mobile No.:
Email:

Delegate 3 Details

Name: Dr/Mr/Ms
Job Title:
Department
Tel: Mobile No.:
Email:

Delegate 4 Details

Name: Dr/Mr/Ms
Job Title:
Department
Tel: Mobile No.:
Email:

Who is Head of your Department?

Who is Head of Training?

Company Information

Company Name: | Main Business/Activity:
Address: | Postal Code:

Please photocopy for additional delegates

Payment Method (Please tick:)

- ❑ I enclose my bankers draft / cheque payable to IBC Asia (S) Pte Ltd
- ❑ I am paying by bank transfer (copy attached)
- ❑ Payment by Credit Card. (AMEX, VISA or MasterCard accepted)

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The best way to pay by credit card is through our secure on-line registration process, simply log on to the website at **www.informaconnect.com.sg/hydrogeneconomy** and click "Register On-line". If you would prefer to pay over the phone please complete the contact name and details and our Customer Services Team will call within 24 hours to take payment. As we treat your credit card information in the strictest confidence, please do not send payment details by email.

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PAYMENT TERMS

Payment must be received 10 business days prior to the event. To take advantage of discounts with an expiry date, registration and payment must be received by the cut-off date.

- Payment by bankers draft or cheque in S$ or US$ should be made in favour of "IBC Asia (S) Pte Ltd" and mailed to:
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CANCELLATIONS / SUBSTITUTION

Should you be unable to attend, a substitute delegate is welcome at no extra charge. Cancellations must be received in writing at least 10 business days before the start of the event, to receive a refund less 10% processing fee per registration. The company regrets that no refund will be made available for cancellation notifications received less than 10 business days before the event.

IMPORTANT NOTE

Please quote the name of the delegate, event title and invoice number on the advice when remitting payment. Bank charges are to be deducted from participating organisations own accounts. Please fax your payment details (copy of remittance advice, cheque or draft to +65 6508 2407).

Attendance will only be permitted upon receipt of full payment. Participants wishing to register at the door are responsible to ensure all details are as published. Informa Connect Singapore assumes no further liability or obligation, beyond the refund of the paid registration fee, in the event of postponement or cancellation by Informa Connect Singapore.

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