

UNDER THE PATRONAGE OF



وزارة الطاقة والمعادن  
Ministry of Energy and Minerals



DEC 5-7, 2022  
MUSCAT, SULTANATE OF OMAN

# TECHNICAL AGENDA

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# Conference **Day 1** (Dec 6, 2022)

08:30 - 09:15

## Registration and Networking

09:15 - 09:20

## Introduction



**Nima Abu Wardeh**  
Former BBC anchor

09:20 - 09:30

## Welcome



**Eng. Mazin Al Lamki**  
Chief Executive Officer,  
Energy Development Oman SAOC &  
Chairman of the Summit



09:30 - 10:10

## Opening Keynote Speech



**H.E. Eng. Salim Al Aufi**  
Minister of Energy and Minerals,  
Sultanate of Oman



09:30 - 09:55



**HAYASHI Nobumitsu**  
Governor,  
Japan Bank for International  
Cooperation (JBIC)



09:55 - 10:10



**Abdulrahman Al-Hatmi**  
Group CEO,  
ASYAD



10:10 - 10:15

10:15 - 13:45

Technical Sessions attendees/delegates are eligible and encouraged to be present during the Strategic Sessions with Executive Speakers.

13:45 - 14:45

**Lunch Break & Networking**

## TECHNICAL SESSIONS

14:45 - 15:45

### Session 1: Green Hydrogen Production

#### Speakers:



**Erika Niino-Esser**

Business Developer and Technical Specialist for Hydrogen and Green Chemicals, thyssenkrupp nucera



**TOPIC:** We shape the new era - green hydrogen production through large-scale water electrolysis



**Devon Hyver**

Director Sales and Market Development EMEA, Plug Power



Plug Power

**TOPIC:** The pace of Gigawatt scaling : Global forecast for green hydrogen production



**Jonathan Carpenter**

Vice President, New Energy Services, Petrofac



**TOPIC:** Global Green Hydrogen Review & Experiences : Considerations for Deploying Green Hydrogen Production and Potential Export Routes



**Jérémie Esquier**

Power-to-X Market Director, Technip Energies



**TOPIC:** Optimizing LCOH with Energy Architecture Design and Intermittency Management System

15:45 - 16:00

**Coffee Break & Networking**

16:00 - 17:00

### Session 2: Green Hydrogen Technologies: Research and Development

#### Speakers:



**Dr. Juergen Meinhardt**

Head of Department Analytical Services, Fraunhofer (ISC)



**Dr. Martin Peters**

Head of Department Materials Chemistry, Fraunhofer (ISC)



**TOPIC:** Technology developments for the improvement of production, storage and transport of green hydrogen and its derivatives



**Giovanni Sarti**

Strategic DTI Manager for Hydrogen fueled Gas Turbines and Systems, Baker Hughes



**TOPIC:** The Role of Turbomachinery in enabling the Hydrogen Economy



**Dr. Ahmed Al Hatrooshi**  
Project Manager, Sur Hydrogen Cluster  
Pre-feasibility Study,  
HY-FLY (National Hydrogen Alliance)



**TOPIC:** Sur Hydrogen Cluster Pre-feasibility Study



**Prof. Michael Modigell**  
Consultant / Advisor

**TOPIC:** Three step biosolar process for the production of Hydrogen

## Conference **Day 2** (Dec 7, 2022)

08:30 - 09:00

**Registration and Networking**

### TECHNICAL SESSIONS

09:00 - 09:10

**Recap of first day**



**Intisar Al-Busaidi**  
Ph.D. in Petroleum Engineering  
Sultan Qaboos University



09:10 - 10:15

**Session 3: Green Hydrogen Deployment**

**Speakers:**



**Khalid Oumejjoud**  
Managing Director,  
PSM Thomassen Gulf

**Thomassen Energy**  
a Hanwha company

**TOPIC:** Decarbonization of Industrial gas turbines  
by conversion for operation with Hydrogen



**Martin Weng**  
Managing Director,  
Aixprocess GmbH

**aixprocess** *The Modeling Company*

**TOPIC:** Decarbonisation of Cement Production by  
Utilization of Green Hydrogen



**Mariya Al Toubi**  
Researcher,  
Sultan Qaboos University



**TOPIC:** Hydrogen Clusters development in Oman: Techno-Economics and business cases.



**Farkas Patrik**  
Market Development Manager,  
Wartsila



**TOPIC:** Unstuck - an unconventional transition in a conventional industry



**Matteo Trascinelli**  
Vice President – Global Business  
Development Manager,  
ABB Energy Industries



**TOPIC:** The Great GW Scale-up: Driving down costs and increasing value of low carbon hydrogen projects and operations

10:15 - 11:30

## Session 4: Transportation and Storage

### Speakers:



**Dr. Peter Gless**  
Senior Business  
Development Manager,  
Hydrogenious LOHC  
Technologies GmbH



**TOPIC:** LOHC – An ideal solution for hydrogen export from Oman



**Philippe Lavagna**  
Product Account Manager for  
New Energies Terminals  
SBM Offshore Group,



**TOPIC:** Technology for green hydrogen cargo transfer in open sea



**Mr. René Sejer Laursen**  
Director – Fuels & Technology,  
Eagle ABS



**TOPIC:** Can Pre-combustion Carbon Capture Technologies Solve the Hydrogen Storage Issue for Deep Sea Shipping?



**Nasser Al Rizeiqi**  
Director of Hydrogen Policies &  
Strategies Department  
Ministry of Energy and Minerals,  
Sultanate of Oman



**TOPIC:** Hydrogen underground storage



**Dr. Saif Al Ghafri**  
University of Western Australia;  
Future Energy Exports Cooperative  
Research Centre



**TOPIC:** Hydrogen Liquefaction: An overview of the Fundamental Physics,  
Engineering Practice, Economic Viability, and Future Opportunities

11:30 - 11:45

## Coffee Break & Networking

11:45 - 13:00

## Session 5: Certification and Regulation

### Speakers:



**Jochen Bard**  
Director of Energy Process  
Technology Division  
Fraunhofer (IEE)



**TOPIC:** System and Market analysis of the production pathways for green hydrogen and other PtX products – towards the implementation of certification schemes in Oman and the MENA region



**Yasser Taqi**  
Partner,  
Dentons

**DENTONS**

**TOPIC:** Green Hydrogen in Oman – The need for a regulatory road-map



**Nahla Abid**  
Vice President, Sales & Strategy,  
Middle East and Caspian Sea Region,  
Bureau Veritas



**TOPIC:** The Need of Certification and Regulations for Hydrogen Market



**Dr.-Ing. Thomas Weiß**  
Vice President Hydrogen  
PtX - Storage  
TÜV SÜD



**TOPIC:** The importance of certification



**Maxime Saliez**  
Policy Advisor,  
Federal Ministry of Energy,  
Belgium



13:00 - 14:00

## Lunch Break & Networking

14:00 - 15:00

## Session 6: Green Hydrogen Technology: Production

### Speakers:



**Jean Carlos Leicht**

Head of Business Development & Application Engineering - Asia Pacific, Middle East, Africa, Hitachi Energy



**TOPIC:** Scaling up the Electrolysis plants: transformer design and manufacturing



**Bo Hartvigsen**

Sr. Business Development Director, Power-to-X, Topsoe



**TOPIC:** Efficient conversion of H<sub>2</sub>O and CO<sub>2</sub> using SOEC



**Rafael Fejervary**

New Energy Portfolio Project Manager, SLB



**Kazuya Miyazaki**

Director, Yamanashi-Hydrogen Company, Inc.



15:00 - 17:15

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17:15 - 17:45

### Prayer Break / Coffee Break & Networking

17:45 - 19:15

Technical Sessions attendees/delegates are eligible and encouraged to be present during the Strategic Sessions with Executive Speakers.

19:15 - 19:45

### Closing Ceremony



**Abdullah Al Harthy**

Executive Chairman & Founder, Birba Energy Services (Organizer)



**H.E Eng. Salim Al Aufi**

Minister of Energy and Minerals, Sultanate of Oman



**Eng. Mazin Al Lamki**

Chief Executive Officer, Energy Development Oman SAOC & Chairman of the Summit



19:45 - 20:00

### Student Award



**Hamed Al-Naumani**

Chief Executive Officer, Oman LNG



**Intisar Al-Busaidi**

Ph.D. in Petroleum Engineering Sultan Qaboos University



20:00 - 21:00

### Gala Dinner and Networking

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