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WORLD HYDROGEN 2024

SUMMIT & EXHIBITION

13-15 MAY 2024

ROTTERDAM AHOY, NETHERLANDS

IN PARTNERSHIP WITH:



Government of the Netherlands



City of
Rotterdam



Port of
Rotterdam

THE OFFICIAL WORLD HYDROGEN SUMMIT IN ROTTERDAM

THE GLOBAL PLATFORM WHERE HYDROGEN BUSINESS GETS DONE

Part of the SEC World Hydrogen Series
The Largest and Most Senior Hydrogen Summits



Speakers indicated are in the process of being invited & are not necessarily confirmed. Private Companies are subject to sponsorship pricing unless discretion is exercised

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CONFIRMED SPEAKERS

1. **H.E. Rob Jetten**, Minister for Climate and Energy Policy, **Government of the Netherlands**
2. **Sang Hyup Kim**, Co-Chairperson, Presidential Commission on Carbon Neutrality and Green Growth, **Republic of Korea**
3. **Mr. Hiroo Inoue**, Director General, Energy Conservation and Renewable Energy in Agency for Natural Resources and Energy, **METI**
4. **H.E. Elisa Facio**, Minister of Industry, Energy and Mining, **Government of the Republic of Uruguay**
5. **Lord Callanan**, Minister for Energy Efficiency and Green Finance, Department for Energy Security & Net Zero, **UK Government**
6. **H.E. Robert Simons**, Vice Mayor Port, Economy, Hospitality and Governance, **City of Rotterdam**
7. **Boudewijn Siemons**, Chief Executive Officer and Interim COO, **Port of Rotterdam**, SEC Hydrogen Advisory Board Member
8. **Martijn Coopman**, Program Manager International Hydrogen Supply Chains, **Port of Rotterdam**
9. **Randolf Weterings**, Programme Manager, Hydrogen, **Port Rotterdam**
10. **Nico van Dooren**, Head of Business Development, **Port of Rotterdam**
11. **Jeroen Steens**, Commercial Delivery Director, **Port of Rotterdam**
12. **Alicia Eastman**, Co-host, **Everything About Hydrogen**, Co-Founder and Board Member, **InterContinental Energy**
13. **Daria Nochevnik**, Director for Policy and Partnerships, **Hydrogen Council**
14. **Sonia Maleky**, Director of Hydrogen Technology, **Microsoft**
15. **Kajsa Ryttberg Wallgren**, Executive Vice President, Growth & Hydrogen Business, **H2 Green Steel**
16. **Noé van Hulst**, Vice-Chair, **IPHE**, Hydrogen Advisor, **IEA & Gasunie**
17. **Christian Pho Duc**, Chief Technology Officer, **Smartenergy**, SEC Hydrogen Advisory Board Member
18. **Dr René Cotting**, Chief Financial Officer, **Smartenergy**
19. **Caroline Stancell**, General Manager of Hydrogen, **Air Products**
20. **Manish Patel**, BD Manager Hydrogen, **Air Products**
21. **Steve Hamburg**, Chief Scientist, **Environmental Defense Fund**
22. **Ilissa Ocko**, Climate Scientist II, **Environmental Defense Fund**
23. **Mark Brownstein**, Senior Vice President, **Environmental Defense Fund**

24. **Amber Russell**, SVP Refining, **bp**
25. **Simon Herbert**, Vice President, EAME, **ExxonMobil I Low Carbon Solutions**
26. **Bert De Backker**, Policy & Strategy Manager, EAME, **ExxonMobil I Low Carbon Solutions**
27. **Maarten Wetselaar**, Chief Executive Officer, **CEPSA**
28. **Jorge Palomar Herrero**, Global Hydrogen Development Director, **Iberdrola**
29. **Jeff Pollack**, Chief Strategy & Sustainability Officer, **Port of Corpus Christi Authority**
30. **Marcel Galjee**, Managing Director, **HyCC**
31. **Willemien Terpstra**, CEO, **Gasunie**
32. **Dr. Christoph Noeres**, Head of Green Hydrogen, **thyssenkrupp nucera**
33. **Christian Stuckmann**, VP Business Development Hydrogen, **Uniper Hydrogen**
34. **Peter Wagner**, CEO, **Nikkiso Clean Energy and Industrial Gases Group**
35. **Ramon van den Dungen**, Managing Director Energy Sector Coverage, Hydrogen Lead, The Netherlands, **ING**
36. **Steve Milward**, Chief Operating Officer, **8 Rivers**
37. **Occo Roelofsen**, Founder, **Power2X**
38. **Taco Hoenkamp**, Business Development, Hydrogen, **RHDHV**
39. **Matt Pitcher**, Head of Technology – Hydrogen, **Technip Energies**
40. **Dr. Sopna Sury**, Chief Operating Officer Hydrogen, **RWE Generation SE**
41. **Rafael Fejervary**, Hydrogen Director, **SLB**
42. **John Gunn**, Global Manager of Operations, Energy Transition, **Bechtel**
43. **Fabian Jochem**, Head of Strategy, **SMA Altenso GmbH**
44. **Dr Dean Bialek**, Chief Officer, External Relations & Governmentt Affairs, **CWP Global**
45. **Anders Lundquist**, Business Development Manager, **TechnipFMC**
46. **Andreas Lippert**, Vice President and General Manager Electrolyzers, **Accelera by Cummins**
47. **Lotte Rosenberg**, Chief Executive Officer, **Carbon Recycling International**
48. **Mattijs Slee**, CEO, **Battolyser Systems**
49. **Alan Hayes**, Global Head of Pricing for Energy Transition, **S&P Global Commodity Insights**
50. **Tamme Mekkes**, Business Development Director, **Koole Terminals**
51. **Jan Strybol**, Deputy General Secretary, **EIGA**
52. **Laurent Antoni**, Executive Director, **IPHE**
53. **Madadh MacLaine**, Secretary General, **Zero Emissions Ship Technology Association**

54. **Hadi Hajibeygi**, Professor of Geo-Energy Solid and Fluid Mechanics, **TU Delft**
55. **Alexander Garbar**, Head of Corporate Development and Strategy, **Duisburger Hafen AG**

SUMMIT DAY ONE

MONDAY 13 MAY

7:15 WELCOME BREAKFAST & REGISTRATION

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08:15 SUMMIT WELCOME ADDRESS

Speakers

- **Rob Arthur**, Director of Partnerships, **Sustainable Energy Council**
- Master of Ceremonies: **Simone van Trier**
- **H.E. Rob Jetten**, Minister for Climate and Energy Policy, **Government of the Netherlands**
- **Boudewijn Siemons**, Chief Executive Officer and Interim COO, **Port of Rotterdam**, SEC Hydrogen Advisory Board Member

08:50 KEYNOTE ADDRESSES

- **Christian Pho Duc**, Chief Technology Officer, **Smartenergy**, SEC Hydrogen Advisory Board Member
- Senior Representative, **Air products**

09:15 **SESSION 1: Leading Global Hydrogen Projects**

- Current projects underway leading developments
- Lessons learnt to date from global trade
- Policies incentivizing demand towards a profitable energy transition
- Will we achieve the 10+10 MTPA by 2030 in Europe?

Moderator

Dr Dean Bialek, Chief Officer, External Relations & Government Affairs, **CWP Global**

Panellists

Simon Herbert, Vice President, EAME, **ExxonMobil Low Carbon Solutions**

Maarten Wetselaar, Chief Executive Officer, **CEPSA**

Dr. Christoph Noeres, Head of Green Hydrogen, **thyssenkrupp nucera**

Christian Stuckmann, VP Business Development Hydrogen, **Uniper Hydrogen**

Jorge Palomar Herrero, Global Hydrogen Development Director, **Iberdrola**

10:15 **FIRESIDE CHAT: Invest in Canada**

Fireside Chat

Senior Representative, **Invest in Canada**

10:30 **NETWORKING COFFEE BREAK**

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11:15 **SPOTLIGHT:** International Hydrogen Trade Forum

- Findings of the corridor study and priority actions to accelerate cross border trade of hydrogen derivatives

Moderator

Daria Nochevnik, Director for Policy and Partnerships, **Hydrogen Council**

Panellists

H.E. Rob Jetten, Minister for Climate and Energy Policy, **Government of the Netherlands**

Boudewijn Siemons, Chief Executive Officer and Interim COO, **Port of Rotterdam**,
SEC Hydrogen Advisory Board Member

12:00 **FIRESIDE CHAT:** The Netherlands to Germany Hydrogen Corridor

Moderator

Speakers

12:15 **SESSION 2:** Harnessing Hydrogen to Decarbonise Hard to Abate Sectors

- The future vision for a decarbonised world
- Public and private sector collaboration to decarbonise heavy industries
- Addressing suitability in diverging industries and applications
- Power-to-x opportunities beyond hydrogen to enable cross sector decarbonization
- Off takers lessons learned to date and priorities

Keynote Address

Senior Representative, **bp**

Moderator

Occo Roelofsen, Founder, **Power2X**

Panellists

Amber Russell, SVP Refining, **bp**

Taco Hoenkamp, Business Development, Hydrogen, **RHDHV**

Kajsa Ryttberg Wallgren, Executive Vice President, Growth & Hydrogen Business,
H2 Green Steel

13:30 NETWORKING LUNCH

Sponsored by



14:30 SESSION 3: Hydrogen Transportation, Distribution and Storage

- Supply Chain integration to develop hydrogen ecosystems
- Building trust with customers to enable scaling up
- Developing transportation and distribution efficiencies for cost reduction
- Underground hydrogen storage to allow for scaling-up the hydrogen economy

Presentation

Willemien Terpstra, CEO, **Gasunie**

Moderator

Panellists

Peter Wagner, CEO, **Nikkiso Clean Energy and Industrial Gases Group**

Willemien Terpstra, CEO, **Gasunie**

Dr. Sopna Sury, Chief Operating Officer Hydrogen, **RWE Generation SE**

Tamme Mekkes, Business Development Director, **Koole Terminals**

Hadi Hajibeygi, Professor of Geo-Energy Solid and Fluid Mechanics, **TU Delft**

15:30 SPOTLIGHT: How to maximize hydrogen's climate benefits and minimize its risks

Moderator

Speaker

Steve Hamburg, Chief Scientist, **Environmental Defense Fund**

15:45 SPOTLIGHT: Clean Energy Storage Solutions for a Net Zero Future

Moderator

Panellists

Anders Lundquist, Business Development Manager, **TechnipFMC**

Senior Representative, **SFC**

16:15 **SESSION 4: Low Carbon Hydrogen Production & CCUS**

- Low carbon hydrogen latest project and policy developments
- What are the barriers holding low carbon hydrogen back?
- How critical is low carbon hydrogen to meet current targets?
- CCUS as a key enabler of hydrogen demand and infrastructure development
- Utilising CCUS to decarbonise existing hydrogen markets

Moderator

Jeroen Steens, Commercial Delivery Director, **Port of Rotterdam**

Panellists

Rafael Fejervary, Hydrogen Director, **SLB**

Lotte Rosenberg, Chief Executive Officer, **Carbon Recycling International**
Senior Representative, **ADNOC**

Matt Pitcher, Head of Technology – Hydrogen, **Technip Energies**

John Gunn, Global Manager of Operations, Energy Transition, **Bechtel**

Steve Milward, Chief Operating Officer, **8 Rivers**

17:15 **NETWORKING COFFEE BREAK**

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17:45 **SPOTLIGHT: International Power-to-X Workshop: Concluding Statement**

Speakers

END OF DAY 1

18:00 **GALA DINNER**

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SUMMIT DAY TWO

TUESDAY 14 MAY

09:00 OPENING KEYNOTE ADDRESSES

- **Sang Hyup Kim**, Co-Chairperson, Presidential Commission on Carbon Neutrality and Green Growth, **Republic of Korea**
- Senior Representative, **Government of South Australia**

09:45 SESSION 5: Electrolyser Developments

- Will there be enough electrolyser production capacity?
- Electrolyser giga factories: will there be enough capacity? What are the bottlenecks?
- Electrolyser advancements towards commercial scale-up & cost reduction
- Grid integration of hydrogen electrolyzers

Moderator

Panellists

Senior Representative, **Envision**

Andreas Lippert, Vice President and General Manager Electrolyzers, **Accelera by Cummins**

Mattijs Slee, CEO, **Battolyser Systems**

Fabian Jochem, Head of Strategy, **SMA Altenso GmbH**

Senior Representative, **Xylem**

10:45 NETWORKING COFFEE BREAK

Sponsored by:



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11:30 **SESSION 6: Renewable Hydrogen Production**

- Will there be enough green power from Wind, Solar, Hydro, Geothermal?
- Overcoming challenges in scaling up production
- What is needed to build a successful project
- Renewable power cost decline curve

Moderator

Panellists

Marcel Galjee, Managing Director, **HyCC**

Caroline Stancell, General Manager of Hydrogen, **Air Products**

Senior Representative, **MASDAR**

Christian Pho Duc, Chief Technology Officer, **Smartenergy**, SEC Hydrogen

Advisory Board Member

12:30 **NETWORKING LUNCH**

Sponsored by:



13:30 **SESSION 7: Financing Hydrogen Projects**

- De-risking investment opportunities to accelerate capital flow into hydrogen
- Case Studies in successful project funding and financial instruments working worldwide
- What funding opportunities are available for hydrogen projects?

Moderator

Panellists

Ramon van den Dungen, Managing Director Energy Sector Coverage, Hydrogen Lead, The Netherlands, **ING**

Alan Hayes, Global Head of Pricing for Energy Transition, **S&P Global Commodity Insights**

Dr René Cotting, Chief Financial Officer, **Smartenergy**

14:15 **SPOTLIGHT: Hydrogen in the Americas**

Moderator

Panellists

H.E. Elisa Facio, Minister of Industry, Energy and Mining, **Government of the Republic of Uruguay**

15:00 **NETWORKING COFFEE BREAK**

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15:30 SESSION 8: Realising Offtake Agreements and Demand for Hydrogen

- How can we bring the full supply chain to FID simultaneously?
- How can we mobilise hydrogen to ensure the survival of energy intensive industries?
- What are the obstacles to scaling up demand for hydrogen?
- How can end users position themselves optimally for the energy transition?

Moderator

Noé van Hulst, Vice-Chair, **IPHE**, Hydrogen Advisor, **IEA & Gasunie**

Panellists

Sonia Maleky, Director of Hydrogen Technology, **Microsoft**

16:30 SPOTLIGHT: Deep Dive into Australian Opportunities Panel**Moderator****Panellists**

Martijn Coopman, Program Manager International Hydrogen Supply Chains, **Port of Rotterdam**

17:15 SESSION 9: Standardization, Certification & Regulations

- Global coordination for commercial trade and carbon credits
- Global standardisation on the carbon intensity of energy molecules
- Working towards mutual recognition of certification schemes across the world to facilitate global trade

Moderator

Jan Strybol, Deputy General Secretary, **EIGA**

Panellists

Bert De Backker, Policy & Strategy Manager, **ExxonMobil | Low Carbon Solutions**

Laurent Antoni, Executive Director, **IPHE**

Ilissa Ocko, Climate Scientist II, **Environmental Defense Fund**

18:00 END OF DAY 2**18:00 DRINKS RECEPTION**

SUMMIT DAY THREE

WEDNESDAY 15 MAY

09:00 **SPOTLIGHT:** European Hydrogen Policies

Moderator

Clare Jackson, CEO, **Hydrogen UK**

Panellists

09:45 **SESSION 10:** Global Ports Leading the Energy Transition to a Hydrogen Economy

- Latest progress in the development of Europe's Hydrogen Hub
- Green Shipping Corridors as a means to accelerate the hydrogen ecosystem
- Latest updates from the U.S. Hydrogen Hubs funding
- The role of Ports in the decarbonization of maritime and bunkering.

Moderator

Madadh MacLaine, Secretary General, **Zero Emissions Ship Technology Association**

Panellists

Nico van Dooren, Head of Business Development, **Port of Rotterdam**

Jeff Pollack, Chief Strategy & Sustainability Officer, **Port of Corpus Christi Authority**

Alexander Garbar, Head of Corporate Development and Strategy, **Duisburger Hafen AG**

10:30 **NETWORKING COFFEE BREAK**

11:00 SESSION 11: Decarbonising Shipping

- Projections for shipping decarbonization
- Power-to-x pathways to decarbonize shipping
- Policies incentivising the transition to e-fuels
- The role of ammonia, methanol, liquid hydrogen , LOHC

Moderator

Alicia Eastman, Co-host, **Everything About Hydrogen**, Co-Founder and Board Member, **InterContinental Energy**

Panellists

Mark Brownstein, Senior Vice President, **Environmental Defense Fund**

11:45 SPOTLIGHT: State of the Industry Keynote Address**Keynote Address****12:00 SPOTLIGHT: Leading Cities Spearheading Hydrogen Development****Moderator****Panellists****13:00 NETWORKING LUNCH**

14:00 SESSION 12: Hydrogen Accelerating Sustainable Mobility

- Latest projects and priorities to meet 2030 targets
- Cross sector collaboration to develop a hydrogen mobility ecosystem
- Timescales towards achieving net-zero long-haul mobility
- Case Studies from successful hydrogen transportation deployment to date

Moderator**Panellists**

Manish Patel, BD Manager Hydrogen, **Air Products**

14:45 SESSION 13: Scaling Up Electrolysis for Large Scale End-Use

- Challenges and opportunities in scaling up electrolysis
- Integrating for e-fuels, e-methanol and ammonia productions
- Considering cost externalities within CAPEX and OPEX projections
- Challenges for the Power Grid when scaling up electrolysis
- Utilising nuclear base load power for high efficiency electrolyzers

Moderator**Panellists**

Randolf Weterings, Programme Manager, Hydrogen, **Port Rotterdam**

Dirk Rabelink, Dutch Nuclear Developer **ULC**

15:30 NETWORKING COFFEE BREAK

16:00 FIRESIDE CHAT: EU Leading Global Hydrogen Developments

Following on from REPower EU in 2022 and the EU Hydrogen Bank in 2023 – we hear the latest advancements for the EU plans for Hydrogen in 2024 and beyond

Moderator

Speaker

16:15 SESSION 14: An Outlook for Hydrogen's Future

- Where could the hydrogen industry be in 5-10 years?
- Bringing hydrogen projects to FID
- What are the opportunities and bottlenecks as the hydrogen industry progresses?
- How can we use what we have learned so far to accelerate the industry?

Moderator

Panellists

17:15 END OF SUMMIT

GET IN TOUCH WITH THE TEAM



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