



11 - 12 JUNE 2024

RONALD REAGAN INT. TRADE CENTER, WASHINGTON D.C.

## The Hub for the Global Hydrogen Community in the Americas

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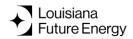














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## **CONFIRMED SPEAKERS**

- 1. Ambassador Maria Luiza Ribeiro Viotti, Ambassador of Brazil to the United States, Embassy of Brazil in Washington
- 2. **Dr. Sunita Satyapal,** Hydrogen and Fuel Cell Technologies Office Director and Hydrogen Program Coordinator, **U.S. Department of Energy**
- 3. Kelly Cummins, Acting Director, Office of Clean Energy Demonstrations, U.S. Department of Energy
- 4. Jeff Marootian, Principal Deputy Assistant Secretary, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy
- 5. Crystal Farmer, Program Manager Hydrogen Hubs, Office of Clean Energy Demonstrations, U.S. Department of Energy
- 6. Maggie Field, Western Hydrogen Hubs Manager, Clean Air Task Force
- 7. Shinichi Kihara, Director General for Energy and Environmental Policy, Ministry of Economy, Trade and Industry Japan
- 8. Rebecca Knights, Executive Director, Strategy Policy & Delivery, Department for Energy and Mining, Government of South Australia
- **9. Betony Jones,** Labor Advisor to Secretary of Energy, Director, Office of Energy Jobs, **U.S. Department of Energy**
- 10. Allison Clements, Commissioner, U.S. Federal Energy Regulatory Commission (FERC)
- 11. Campbell Howe, Senior Advisor, Loan Programs Office, U.S. Department of Energy
- 12. Neha Rustagi, Systems Analysis and Codes & Standards Program Manager, U.S. Department of Energy
- 13. Eric Guter, Vice President, Hydrogen for Mobility, Air Products
- **14. Noelia Medina Alfaro**, Secretary of National Future Energy Leaders Program (World Energy Council/AUDER), **Hydrogen Advisor to the Secretary of Energy Uruguay**
- 15. Tina Bradshaw, President and CEO, Uniper North America
- **16.** Dan Holton, Senior Vice President, Low Carbon Solutions, ExxonMobil
- 17. Martin Hering, Senior Business Development Manager, Bosch
- 18. Pierre Poulain, President & CEO, Powertech Labs
- 19. Janice Lin, Founder & President, Green Hydrogen Coalition
- 20. Alex Savelli, Managing Director Electrolyzers Americas, Accelera by Cummins
- 21. Dr. Matteo Fabbri, Product Line Manager, ABB
- 22. John Gunn, Global Manager of Operations, Energy Transition, Bechtel
- 23. Nikolaj Knudsen, Head of Business Development, Topsoe, Power-to-X
- 24. Rafael Fejervary, Hydrogen Director, SLB
- 25. Laura Bergedieck, Senior Vice President for Hydrogen Development, RWE Clean Energy
- 26. Rajiv Sabharwal, Vice President of Business Development- Energy, Bureau Veritas
- 27. Brian Foody, CEO, logen
- 28. Beth Deane, Chief Legal Officer, Electric Hydrogen
- 29. Christopher Hessler, Founding Partner, AJW, Inc.
- 30. Bernhard Voll, Senior Technical Expert, SMA Altenso GmbH
- 31. Dr. Joshuah Stolaroff, CEO, MOTE
- 32. Rushabh Shah, Director, Midwest Hydrogen & CCS, bp
- 33. Jaryd O'Brasky, Vice President Sales & Service, H-TEC SYSTEMS
- 34. Makini Byron, Director, Clean Energy Business Development, Linde
- 35. Todd Anderson, Chief Technology Officer, Phinia
- 36. Magnus Thomassen, Chief Product Officer, Hystar
- 37. Beth Trask, Vice President Global Energy Transition, Environmental Defense Fund
- **38.** Geoff Tuff, US Hydrogen Lead, Deloitte
- 39. Steven Parente, Hydrogen Infrastructure and Integration Specialist, Caterpillar

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- 40. Sashe Annett, Founding Director, Northeast Hydrogen Alliance
- 41. Steve Beyer, Director of Business Development, Re:Build Manufacturing
- 42. Arvind Datta, Senior Business Development Manager, thyssenkrupp nucera
- 43. Rob Cadle, General Manager New Business Development, Garrett Motion
- 44. Mack Hopen, Sr. Manager of Commercialization, Modern Hydrogen
- 45. Sonia Maleky, Director of Hydrogen Technology, Microsoft
- 46. Taisuke Horimi, Executive Counsellor, Green Transformation Development, Nippon Steel Corporation
- 47. Michael Ducker, President & CEO, MHI Hydrogen Infrastructure
- 48. Dr. Toshihiko Awano, Deputy General Manager, IHI Corporation
- 49. Franklin Chang Díaz, CEO, Ad Astra Rocket Company
- 50. Michael McCay, Business Strategy Specialist, REDCOM
- **51.** Michael Hecht, President & CEO, Greater New Orleans, Inc.
- **52.** Tatsushi Amano, Global Head of Energy & Natural Resources Finance Group, Japan Bank for International Cooperation
- **53. Joseph Goffman,** Assistant Administrator for the Office of Air and Radiation, **U.S. Environmental Protection Agency (EPA)**
- 54. Chris Green, Chair, Pacific North West Hydrogen Hub
- 55. Nick Barilo, Executive Director, Center for Hydrogen Safety
- 56. Brett Perlman, CEO, Center for Houston's Future
- 57. Bill Elrick, Executive Director, Hydrogen Fuel Cell Partnership
- 58. Clare Jackson, CEO, Hydrogen UK
- 59. Jonathan Cristiani, Bioenergy & Hydrogen Technology Manager, Black & Veatch
- 60. Mark Fasel, Director of PMG Technical Resources, International Code Council, Inc.
- 61. Trevor Brown CFA, Executive Director, Ammonia Energy Association
- 62. Zane McDonald, Executive Director, Open Hydrogen Initiative
- 63. Brad Williams, Executive Advisor Energy Infrastructure, JERA Americas
- 64. Aaron Villarreal, Director, Sales & Global Hydrogen, Taylor-Wharton
- 65. Tim Hard, SVP Energy Transition, Argus Media
- 66. Ken Alston, Investor, Amazon
- 67. Silvia Carolina Lopez Rocha, Energy Regulatory Specialist, World Bank
- **68. Dr Monterey Gardiner,** Chief Engineer Hydrogen Strategy & Partnerships, **Energy Conversion & Storage Systems Center**
- 69. Nabil Bennouna, Principal, Transatlantic Clean H2 Trade Coalition
- 70. Leia Guccione, U.S. Program Managing Director, RMI
- 71. Selim Cevikel, Principal Consultant Finance, Global CCS Institute
- 72. Dave Farese, Member, Hydrogen Safety Panel
- 73. Leigh Collins, Editor, Hydrogen Insight
- 74. Gurpreet Hayre, Event Director, Sustainable Energy Council



## **SUMMIT DAY ONE**

#### 11 June 2024

#### 8:00 am Welcome Breakfast

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#### 8:55 am Opening Keynote Addresses

#### **Welcome Address:**

• Gurpreet Hayre, Event Director, Sustainable Energy Council

#### **Keynote Addresses:**

#### 9:00 am U.S. Clean Hydrogen Strategy Overview

• **Dr. Sunita Satyapal,** Hydrogen and Fuel Cell Technologies Office Director and Hydrogen Program Coordinator, **U.S. Department of Energy** 

#### 9:10 am FIRESIDE CHAT: U.S. DOE Clean Hydrogen Perspectives

#### Chair:

**Dr. Sunita Satyapal,** Hydrogen and Fuel Cell Technologies Office Director and Hydrogen Program Coordinator, **U.S. Department of Energy** 

#### Speaker:

Kelly Cummins, Acting Director, Office of Clean Energy Demonstrations, U.S. Department of Energy Jeff Marootian, Principal Deputy Assistant Secretary, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

#### 9:45 am FIRESIDE CHAT: Vision for a Hydrogen Economy in the Americas

#### **Chair:**

#### Speaker:

Eric Guter, Vice President, Hydrogen for Mobility, Air Products

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## 10:00 am SPOTLIGHT: Getting Hydrogen Right: Aligning Growth and Climate Goals

#### Speaker:

Amanda Leland, Executive Director, Environmental Defense Fund

## 10:10 am Session 1: Collaboration Amongst Clean Hydrogen Leaders: Critical Projects & Policies Driving the Energy Transition

- Updates on major projects and latest hydrogen advancements in the Americas
- The importance of demand incentives: How can we drive the industry forward through collaboration, policy and legislation?
- Successful projects from around the world providing useful case studies for the Americas
- Where is greater regulatory support needed to unlock projects?
- Hydrogen decarbonization partnerships in the Americas: US, Canada and Latin America
- The latest clean hydrogen incentives and the most optimal ways to implement these

#### **Chair:**

Geoff Tuff, US Hydrogen Lead, Deloitte

#### **Panelists:**

**Shinichi Kihara,** Director General for Energy and Environmental Policy, **Ministry of Economy, Trade** and Industry Japan

Michael Ducker, President & CEO, MHI Hydrogen Infrastructure

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

Beth Deane, Chief Legal Officer, Electric Hydrogen

Brian Foody, CEO, logen

Rushabh Shah, Director, Midwest Hydrogen & CCS, bp

11:10 am Networking Coffee Break Sponsored by





## 11:45 am FIRESIDE CHAT: Establishing Key Cross-Border Market Mechanisms to Develop the Hydrogen Economy

#### **Chair:**

Tim Hard, SVP Energy Transition, Argus Media

#### Speaker:

Shinichi Kihara, Director General for Energy and Environmental Policy, Ministry of Economy, Trade and Industry Japan

Dan Holton, Senior Vice President, Low Carbon Solutions, ExxonMobil

#### 12:15 pm Session 2: Hydrogen Decarbonizing Hard to Abate Sectors

- Key industrial sectors with hydrogen applications: Cement, steel, petrochemicals, transport, mining and others
- Cross-sector partnerships to secure long-term demand from hard to abate sectors
- Collaboration to achieve FID: How must clusters work together to ensure project success?
- Case studies of heavy industrial hydrogen use for decarbonization
- How can clean hydrogen tax credits positively impact hard to abate sectors?

#### **Chair:**

Christopher Hessler, Founding Partner, AJW, Inc.

#### **Panelists:**

Dr. Joshuah Stolaroff, CEO, MOTE

Steven Parente, Hydrogen Infrastructure and Integration Specialist, Caterpillar Taisuke Horimi, Executive Counsellor, Green Transformation Development, Nippon Steel Corporation Mack Hopen, Senior Manager of Commercialization, Modern Hydrogen

#### 1:15 pm Networking Lunch

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## 2:20 pm Session 3: Attracting Investment into Clean Hydrogen Projects: Successes, Challenges and Opportunities

- Is collaboration the key to successfully developing clean H2 projects?
  - Case study successes
- Public Private Partnerships: What more can be done to drive forward investment in the energy transition?
- De-risking investment opportunities to accelerate capital flow into hydrogen
- Case Studies in successful project funding and financial instruments working worldwide
- Offtake agreements fit for a future hydrogen economy

#### Chair:

Bill Elrick, Executive Director, Hydrogen Fuel Cell Partnership

#### Panalists:

Crystal Farmer, Program Manager – Hydrogen Hubs, Office of Clean Energy Demonstrations, U.S. Department of Energy

Tina Bradshaw, President and CEO, Uniper North America

**Tatsushi Amano,** Global Head of Energy & Natural Resources Finance Group, **Japan Bank for International Cooperation** 

Michael Hecht, President & CEO, Greater New Orleans, Inc.

## 3:15 pm Session 4: Electrolyzer Technology Developments: Showcasing World Class Excellence in Technology

- Scaling up electrolysis for large scale adoption
- Collaboration to drive innovation: Driving development and sales of electrolyzer components
- Lowering costs for clean hydrogen production
- Challenges for the Power Grid when scaling up electrolysis
- Meeting key challenges in the built environment with clean tech innovation

#### **Chair:**

Tim Hard, SVP Energy Transition, Argus Media

#### Panelists:

Alex Savelli, Managing Director Electrolyzers – Americas, Accelera by Cummins Nikolaj Knudsen, Head of Business Development, Topsoe, Power-to-X Arvind Datta, Senior Business Development Manager, thyssenkrupp nucera Martin Hering, Senior Business Development Manager, Bosch Dr. Matteo Fabbri, Product Line Manager, ABB

4:00 pm Networking Coffee Break Sponsored by

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#### 4:30 pm Session 5: Ammonia's Clean Energy Potential

- Supply and demand for low-emission ammonia: as a fuel and as a hydrogen carrier
- Standardization, regulation, and certification of ammonia to enable cross-regional hydrogen trade
- Scaling up production to meet the future demand volumes necessary to achieve net-zero emissions by 2050
- Advancing infrastructure and technology for large-scale ammonia adoption Bunkering and Ammonia Storage – next steps, timelines, and projects

#### **Chair:**

Trevor Brown, Executive Director, Ammonia Energy Association

#### **Panelists:**

Dr. Toshihiko Awano, Deputy General Manager, IHI Corporation Silvia Carolina Lopez Rocha, Energy Regulatory Specialist, World Bank Brad Williams, Executive Advisor Energy Infrastructure, JERA Americas Nabil Bennouna, Principal, Transatlantic Clean H2 Trade Coalition Selim Cevikel, Principal Consultant Finance, Global CCS Institute

## 5:15 pm SPOTLIGHT: Developing Future Hydrogen Leaders: Paving the Way for the Next Generation

- How will the US Hydrogen Hubs impact the next generation of future leaders?
- How do we attract talented people into the business?
- Upskilling from other sectors
- International partnerships to develop hydrogen workforce

#### **Chair:**

**Betony Jones,** Labor Advisor to Secretary of Energy, Director, **Office of Energy Jobs, U.S. Department of Energy** 

#### Panelists:

Maggie Field, Western Hydrogen Hubs Manager, Clean Air Task Force
Franklin Chang Díaz, CEO, Ad Astra Rocket Company
Sashe Annett, Founding Director, Northeast Hydrogen Alliance
Noelia Medina Alfaro, Secretary of National Future Energy Leaders Program (World Energy Council/AUDER), Hydrogen Advisor to the Secretary of Energy Uruguay

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### 6:00 pm Drinks Reception

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## **SUMMIT DAY TWO**

#### 12 June 2024

#### 8:00 am Welcome Breakfast

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#### 9:00 am Opening Keynotes

**Ambassador Maria Luiza Ribeiro Viotti,** Ambassador of Brazil to the United States, **Embassy of Brazil** in **Washington** 

9:15 am FIRESIDE CHAT: Hydrogen's Regulatory Roadmap

#### **Chair:**

Leia Guccione, U.S. Program Managing Director, RMI

#### Speaker:

Allison Clements, Commissioner, U.S. Federal Energy Regulatory Commission (FERC)

Joseph Goffman, Assistant Administrator for the Office of Air and Radiation, U.S. Environmental

Protection Agency (EPA)

09:45 am SPOTLIGHT: South Australia Clean Energy Power House

#### **Keynote Address:**

Rebecca Knights, Executive Director, Strategy Policy & Delivery, Department for Energy and Mining, Government of South Australia

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## 10:00 am Session 6: Hydrogen's Mobility and Distribution Applications on Land and Sea

- Developing transportation and distribution efficiencies to reduce costs and unlock off-take
- Harnessing opportunities for Hydrogen Fuel Cells and Hydrogen ICE
- Case Study: Examples of successful H2 road mobility projects
- Fuelling infrastructure for trucks, buses and trains
- Challenges in deploying hydrogen vehicles on the road
- Advancements in hydrogen shipping technology
- Comparing purpose build and blended pipelines and the use of ammonia, methanol and LOHC as carriers

#### Chair:

Brett Perlman, CEO, Center for Houston's Future

#### **Panelists:**

Campbell Howe, Senior Advisor, Loan Programs Office, United States Department of Energy Pierre Poulain, President & CEO, Powertech Labs

Steve Beyer, Director of Business Development, Re:Build Manufacturing

Todd Anderson, Chief Technology Officer, Phinia

Rob Cadle, General Manager New Business Development, Garrett Motion

#### 11:00 am Networking Coffee Break

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#### 11:30 am Session 7: 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

#### Chair:

Leigh Collins, Editor, Hydrogen Insight

#### **Panelists:**

Magnus Thomassen, Chief Product Officer, Hystar
Chris Green, Chair, Pacific Northwest Hydrogen Hub
Laura Bergedieck, Senior Vice President for Hydrogen Development, RWE Clean Energy
Jaryd O'Brasky, Vice President Sales & Service, H-TEC SYSTEMS

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## 12:15 pm SPOTLIGHT: Hydrogen Safety: Enabling Success Through Effective Mindset Management

- Codes and standards: Understanding the information needed to safely build, maintain and operate equipment, systems and facilities
- Safety Culture: A vital foundation for industry success
- How do we learn from experiences and incidents?
  - Highlighting case studies to ensure a continual learning process with regards safety
  - Building trust with customers to enable scaling up

#### Chair:

Nick Barilo, Executive Director, Center for Hydrogen Safety

#### **Panelists:**

Mark Fasel, Director of PMG Technical Resources, International Code Council, Inc. Jonathan Cristiani, Bioenergy & Hydrogen Technology Manager, Black & Veatch Dave Farese, Member, Hydrogen Safety Panel Michael McCay, Business Strategy Specialist, REDCOM

#### 1:00 pm Networking Lunch

#### 2:00 pm Session 8: Hydrogen's Role in the Future of Global Decarbonization

- Where should the hydrogen industry be in 5 years?
- What needs to happen for the hydrogen industry to reach its mid to long term goals?
- Where can demand incentives be introduced to ensure the next phase of industry growth?
- 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?

#### **Chair:**

Janice Lin, Founder & President, Green Hydrogen Coalition

#### **Panelists:**

Rafael Fejervary, Hydrogen Director, SLB
Sonia Maleky, Director of Hydrogen Technology, Microsoft
Ken Alston, Investor, Amazon
Makini Byron, Director, Clean Energy Business Development, Linde
Beth Trask, Vice President, Global Energy Transition, Environmental Defense Fund

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#### 3:00 pm Networking Coffee Break

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## 3:30 pm Session 9: Standardization, Certification and Regulation for Global Export

- Where are we on the market framework rules?
- Defining standards for international trade: handling and storing of hydrogen and derivatives
- Latest international partnerships working on mutual recognition of certification schemes
- Best practices and transparency in hydrogen standards adherence

#### Chair:

Clare Jackson, CEO, Hydrogen UK

#### **Panelists:**

Rajiv Sabharwal, Vice President of Business Development- Energy, Bureau Veritas

Zane McDonald, Executive Director, Open Hydrogen Initiative

Trevor Brown, Executive Director, Ammonia Energy Association

Neha Rustagi, Systems Analysis and Codes & Standards Program Manager, U.S. Department of Energy

## 4:30 pm SPOTLIGHT: Advancements in Hydrogen Storage to Achieve a Sustainable, Low Carbon Future

- Storage technology advancements, innovations & cost reductions
- Hybrid energy storage systems
- Salt caverns
- Liquefied hydrogen
- Compressed hydrogen storage
- Solid State Storage

#### **Chair:**

**Dr Monterey Gardiner,** Chief Engineer Hydrogen Strategy & Partnerships, **Energy Conversion & Storage Systems Center** 

#### **Panelists:**

Tarek Abdel-Baset, Hydrogen Storage Systems Chief Engineer, FORVIA Aaron Villarreal, Director, Sales & Global Hydrogen, Taylor-Wharton Senior Representative, Hexagon Purus

5:00 pm Close of Day 2

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### CONTACT OUR TEAM TO DISCUSS YOUR PARTICIPATION



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