



INTERNATIONAL PARTNERSHIP FOR HYDROGEN AND FUEL CELLS IN THE ECONOMY

IPHE Industry & Policy Forum: Increasing the Role of Hydrogen and Fuel Cells in the Economy Wednesday, 10 April 2019 Vienna, Austria

AGENDA

When: Wednesday, 10 April 2019 (08:30 -15:30)

Where: Grand Hotel Vienna
Kaerntner Ring 9, 1010 Vienna
Room: Quadrille (downstairs)

Focus: Countries are implementing policies and taking action to deploy fuel cells and hydrogen (FCH) that meet their national circumstances. Policy goals driving action includes energy security and resiliency, jobs and economic growth, and environmental benefits by addressing climate change and local air quality objectives.

This Forum will explore the opportunities, issues and concerns of companies providing components and systems to the commercial market and entities now taking action to integrate FCH into their operations. Discussions will include the latest insights from leading companies on the business of supplying and deploying FCH technologies, and government officials and organisations assessing the potential for FCH and charged with providing advice to global stakeholders.

The frame of the issues include those identified in the Tokyo Statement of October 2018: Policies, regulations, codes & standards; Sharing information especially on safety and infrastructure issues; Assessing the role of hydrogen in enabling clean energy, industry, or transportation systems, including sector coupling; and, Communicating and engaging stakeholders about the challenges and opportunities of FCH. Addressing these issues will be crucial to accelerating the development and deployment of FCH in the economy.

Expected Outcome:

- Clear understanding on actions by leading companies, international institutions, and governments on their approaches and opportunities to FCH integration in the economy, and,
- New insights into addressing key issues to achieve increased FCH deployment in the economy including business cases enabling their commercial viability

Participants (100)

Senior Representatives from:

- Globally leading suppliers in the FCH supply chain
- Leading firms integrating FCH into their operations
- International institutions engaged in analysis of the current and future role of FCH in the economy
- IPHE partner countries



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08:00 Registration: Refreshments Available

Session 1: Welcome and Setting the Scene

08:30 Opening of the Forum: Tim KARLSSON, Executive Director, IPHE Secretariat

08:35 Welcome by the Host: Andreas WEBER, Cabinet of Minister Norbert HOFER, Austrian Ministry for Transport, Innovation and Technology

08:45 Objectives and Setting the Scene: Sunita SATYAPAL, Chair of the IPHE

Session 2: Fuel Cells and Hydrogen in the Economy: Industry Perspectives

Leading companies from component and system suppliers, to infrastructure developers, and leading industrialists will present their vision, identify the issues, and the actions necessary by industry and government to make a sound business case for FCH in the economy.

Moderator: Andreas DORDA, Deputy Head of Mobility and Transport Technologies Department, Austrian Ministry for Transport, Innovation and Technology

09:00 AVL: Georg LIST, AVL List GmbH, Vice President, Corporate Strategy: *Fuel Cells and Hydrogen – Automotive Perspective*

09:15 Linde: Markus BACHMEIER, Head of Hydrogen Solutions, Linde Hydrogen FuelTech: *Hydrogen – Tomorrow's Fuel Today*

09:30 Magna: Guido BARTLOK, Program Manager Hydrogen Systems / R&D: *Vision, Issues, and Actions*

09:45 OMV: Michael SATTLER, Head of Future Mobility: *Moving Hydrogen – Evolution Instead of Revolution*

10:00 voestalpine: Johann PRAMMER, Head of Strategic Environmental Management: *Fuel Cells and Hydrogen in the Economy: Industry Perspectives*

Moderated Question & Answers

10:30 Coffee Break

Session 3: Fuel Cells and Hydrogen in the Economy: Governments' Perspectives

Understand the different national strategies for initiatives, programs and policies to enable the successful development and widespread deployment of FCH applications.

Moderator: Tim KARLSSON, IPHE Secretariat, Executive Director

11:00 Germany: Klaus BONHOFF, Managing Director, Nationale Organisation Wasserstoff-und Brennstoffzellentechnologie – NOW GmbH

11:15 Japan: Masana EZAWA, Director, Hydrogen and Fuel Cell Strategy Office, Ministry of Economy, Trade and Industry (METI)

11:30 Korea: Hae-Weon LEE, Principal Research Scientist, Korea Institute of Science and Technology

11:45 Canada: Paula VIEIRA, Director, Transportation and Alternative Fuels Division, Natural Resources Canada

12:00 United States: Sunita SATYAPAL, Director, Fuel Cell Technologies Office, Department of Energy

12:15 Austria: Andreas DORDA, Deputy Head of Mobility and Transport Technologies Department, Ministry for Transport, Innovation and Technology



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12:30 Lunch

Session 4: Fuel Cells and Hydrogen in the Economy: International Institutions Perspectives

Gain insights from international institutions on their most recent activities, including analyses and work underway to foster successful FCH market deployment and global impact.

Moderator: Tim KARLSSON, IPHE Secretariat, Executive Director

13:30 International Energy Agency: Timur GÜL, Head Energy Technology Policy Division, International Energy Agency: *IEA's Work on Hydrogen for the G20*

13:45 Center for Hydrogen Safety: Nick BARILO, Director, Center for Hydrogen Safety: *Introducing the Center for Hydrogen Safety*

Session 5: Fuel Cells and Hydrogen in the Economy: Integrated Panel Discussion

Given the presentations and discussion of the day:

- i) What are the key drivers that can enable and accelerate successful commercial deployment and use of FCH?
- ii) What are the issues that industry, and that governments need to address to continue to build supply chains and industrial capabilities leading to strong business cases for the use of FCH in the economy?

14:00 Moderator: Andreas DORDA, Deputy Head of Department Mobility and Transport Technologies, Austrian Ministry for Transport, Innovation and Technology

From Government

- **European Commission:** José COTTA, Head of Unit G2 – Advanced Energy Production, Directorate-General for Research and Innovation, European Commission
- **Japan:** Masana EZAWA, Director, Hydrogen and Fuel Cell Strategy Office, Ministry of Economy, Trade and Industry (METI)
- **United States:** Sunita SATYAPAL, Director, Fuel Cell Technologies Office, Department of Energy

From Industry

- **AVL:** Georg LIST, AVL List GmbH, Vice President, Corporate Strategy
 - **Linde:** Markus BACHMEIER, Head of Hydrogen Solutions, Linde Hydrogen FuelTech
 - **Voestalpine:** Johann PRAMMER, Head of Strategic Environmental Management
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15:30 Close of the IPHE Industry & Policy Forum