SEMINAR

ENABLING A SUSTAINABLE HYDROGEN MARKET RAMP-UP

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VENUE

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DESCRIPTION

The success of an international hydrogen market hinges not only on investments in hydrogen supply and demand, but also on the development of the needed infrastructure to transport and store hydrogen. Moreover, to build the credentials of hydrogen as an energy carrier of the future, it will be crucial to build an institutional infrastructure to establish the sustainability of hydrogen investments. This means not only ensuring the desired greenhouse gas savings but also addressing broader social and environmental concerns.

This workshop addresses these two dimensions of an international hydrogen market ramp-up in two parts:

Part 1 provides an overview of the state-of-play in hydrogen transport and storage infrastructure. Based on inputs from leading experts, the workshop will engage participants in a discussion of key challenges and open questions on hydrogen infrastructure development.

Part 2 will foster an exchange on progress in establishing the sustainability credentials of hydrogen, including its carbon footprint and broader social and environmental issues. A number of expert inputs will provide a review of current requirements, as demanded by regulations in major offtake markets, certification schemes and the rules applied by investors and financial institutions. This will be followed by an open dialogue on the key challenges and the way forward in accelerating the hydrogen market ramp-up while ensuring sustainability in the sector.

PROGRAMME

8.30	**WELCOME COFFEE**

9.00   **HYDROGEN MARKET IN THE MAKING: THE IMPORTANCE OF INFRASTRUCTURE, FINANCE, AND SUSTAINABILITY**

Uwe Wetzel, *Chair,* UNECE Hydrogen Task Force

Daniel Holz, *Second Secretary (Economic Affairs),* Permanent Mission of Germany to the United Nations Office in Geneva

9.40   **THE EU HYDROGEN AND DECARBONISED GAS PACKAGE: SHAPING H2 INFRASTRUCTURE AND MARKETS**

Dr Katja Yafimava, *Senior Research Fellow,* Oxford Institute for Energy Studies

PART 1: HYDROGEN STORAGE AND TRANSPORT INFRASTRUCTURE

9.55   **INTRODUCTION TO PART 1**

Aliaksei Patonia, *Research Fellow,* Oxford Institute for Energy Studies

10.00   **SESSION 1: STORAGE AND PIPELINES**

- What are the key storage options currently considered the most viable and critical for the development of H2 infrastructure?

- What are the critical factors for enabling long-distance hydrogen transportation by pipelines?

- How can hydrogen storage and pipeline networks be optimally integrated to balance supply, demand, and grid flexibility?

CHAIR   Aliaksei Patonia, *Research Fellow,* Oxford Institute for Energy Studies

SPEAKERS   Siegfried Kiss, *Head of Business Development,* RAG Austria AG

Ning Lin, *Chief Economist,* Bureau of Economic Geology, UT Austin

Fabrizio de Nigris, *Market Strategy Manager,* Snam S.p.A.

Carole Le Henaff, *Head of EU Affairs,* Storengy

11.15   **COFFEE AND NETWORKING**

11.45   SESSION 2: MARITIME SHIPPING

- What are the key alternatives to deliver hydrogen over long distances when pipelines are not an option?

- What infrastructure adjustments should be considered for each of these options?

- What would be the optimal hydrogen carrier for long-distance (transoceanic) hydrogen delivery?

CHAIR   Branko Milicevic, *Secretary,*
Group of Experts on Gas, United Nations Economic Commission for Europe (UNECE)

SPEAKERS   Peter Wells, *Chairmand and CEO,* LH2 Europe

Erhan Erdogan, *Team Lead Regulatory Affairs,* Hydrogenious LOHC

Bert De Backker, *Policy & Strategy Manager, EAME,* ExxonMobil

Nicolas Jensen, *Director of Regulatory Affairs,* TES-H2

13.00   LUNCH

PART 2: ENABLING THE SUSTAINABILITY CREDENTIALS OF HYDROGEN

14.00   INTRODUCTION TO PART 2

Rainer Quitzow, *Research Group Leader,* Research Institute for Sustainability

14.05   SESSION 3: CO2 STANDARDS AND CERTIFICATION: THE STATE-OF-PLAY AND THE WAY FORWARD

- What is the state-of-play for regulation, standards and certification of GHG emissions in the hydrogen sector?

- What are its implications for enabling the hydrogen ramp-up?

- What are key challenges and trade-offs and how can they be addressed to accelerate the market ramp-up?

CHAIR   Ilaria Conti, *Coordinator for Strategy & Development,* Florence School of Regulation

SPEAKERS   Ruta Baltause, *Policy Officer,* DG Energy, European Commission

Jérémie Brillet, *Head of Hydrogen & New Energy Vectors,* Romande Energie

Lissy Langer, *Marie Skłodowska-Curie Fellow,* Technical University of Denmark

| 15.35 | **COFFEE AND NETWORKING** |

| 16.00 | **SUSTAINABILITY GUIDELINES FOR HYDROGEN PROJECTS** |

Petra Schwager, *Chief, Climate and Technology Partnerships (CTP) Division,* United Nations Industrial Development Organization (UNIDO)

| 16.15 | **SESSION 4: BEYOND CO2: ENSURING SUSTAINABLE INVESTMENT IN A HYDROGEN ECONOMY** |

- What role do sustainability criteria - beyond CO2 - play in the financing of hydrogen projects?

- How do sustainability criteria affect the bankability of projects?

- How can sustainability governance be strengthened, while accelerating the hydrogen ramp-up?

CHAIR Rainer Quitzow, *Research Group Leader,* Research Institute for Sustainability

SPEAKERS Roland Schulze, *Managerial Advisor - Low Carbon Energy Technologies,* European Investment Bank

Raghavan Narayanan, *Associate Director,* European Bank for Reconstruction and Development

Henry Rushton, *Director, EMEA Hydrogen Lead,* ING Bank

Marian Rodriguez, *Sustainability Analyst,* Climate Bonds Initiative

Alice Ruczinski, *European Funding Manager,* Lhyfe

| 17.45 | **CLOSING REMARKS** |

Ilaria Conti, *Coordinator for Strategy & Development,* Florence School of Regulation

| 18.00 | **NETWORKING RECEPTION** |

Federal Foreign Office