



Central and Eastern Europe Roadshow



International forum

“HYDROGEN FOR MOBILITY and ENERGY”

September 19, 2023

Riga Technical University, Faculty of Electrical and Environmental Engineering, Azenes street 12/1

Working language: English

9:00 **Registration & coffee**

Media event and Fuel Cell Electric (FCE) vehicles demonstration:

FCE bus by CaetanoBus, FCE car Toyota Mirai, FCE drone and FCE bicycle

10:00 **Opening of the forum**

Aivars Starikovs, Hydrogen Europe, CEO Advisor for CEE countries, Latvian Hydrogen Association, Member of the Board

Andris Kulbergs, Chair of the Environmental, Climate and Energy Subcommittee of the Economic, Agricultural, Environmental and Regional Policy Committee of the Saeima.

Representative of the Ministry of Transport of the Republic of Latvia (TBC)

10:10 **Session I. Stimulating the demand for hydrogen in the Central and Eastern Europe – Hydrogen initiatives and Bus Roadshow**

Session moderator: Aivars Starikovs

Welcome by Hydrogen Europe

JIVE/JIVE2/MEHRLIN – CEE hydrogen bus roadshow.

JIVE/JIVE2/MEHRLIN – Flagship FuelCell Buses Projects in Europe – Early Results and Best Practices.

Funding and Financing opportunities.

Hydrogen Strategy for Wielkopolska

Hydrogen perspectives in development plans of JSC Latvenergo

Discussion panel, Q&A

Jorgo Chatzimarkakis, Chief Executive Officer of Hydrogen Europe (Online)

Aivars Starikovs, Hydrogen Europe, CEO Advisor for CEE countries

Flavio Grazian, Project Manager – Knowledge and Innovation, The International Association of Public Transport (UITP)

Luca Feola, Project Officer, Clean Hydrogen Joint Undertaking (Online)

Walerian Majewski, Greater Poland Voivodeship representative (Online)

Pēteris Lesničenoks, Hydrogen business development leader, JSC Latvenergo

11:45

Networking coffee break

Hydrogen energy expert consultations and Fuel Cell Electric (FCE) vehicles demonstration:

FCE bus by CaetanoBus, FCE car Toyota Mirai, FCE drone and FCE bicycle

PARALLEL SESSIONS

12:15

Parallel Session II. Hydrogen Energy – the future of energy independence for Europe – Latvian perspective (Location: Room 116)

Session moderator: Aivars Starikovs

Key topics to be covered:

- The emergence of hydrogen as an energy carrier in more scenarios.
- Hydrogen produced with renewable electricity is a zero-emission energy carrier, which can help tackle various critical energy challenges.
- What are the most promising local initiatives introducing hydrogen energy in Latvia?

Hydrogen research at RTU

Prof. Dr. sc. ing. Gatis Bažbauers, Vice-Rector for Research, Riga Technical University

Can the wind energy be too much?

Gatis Galviņš, Chairman of the Council, Latvian Wind Energy Association

HEAVENN project

Patrick Cnubben, project initiator

Discussion panel, Q&A

Session speakers joined by:

- **Andris Kulbergs**, Chair of the Environmental, Climate and Energy Subcommittee of the Economic, Agricultural, Environmental and Regional Policy Committee of the Saeima.
- **Ing. Radiša Nunić**, Director for Public Affairs & Grants, Worthington Industries
- **Julien Masson**, Strategic Partnership Manager, Ballard Power Systems Europe

12:15

Parallel Session III. Hydrogen for Mobility – Latvian Perspective

Session moderator: Ģirts Greiškals, Latvian Association of Hydrogen, member of the Board

Key topics to be covered:

- What are the main policy cornerstones necessary for successful development of hydrogen mobility projects?
- What are the strategies that companies could use in deployment of hydrogen projects?
- What would be the drivers to start using hydrogen as an energy source for mobility?

EIB support for Hydrogen Mobility in Europe

Fuel cell bus development at Caetano Bus and real-life experiences in public transport

Hydrogen refuelling technology with focus on FCE Buses

Supporting the Regional Development of the Green Hydrogen Fuel Value Chain for Transportation in Estonia and Latvia (project - H2VALUE)

Discussion panel, Q&A

Neil Valentine, Head of Urban Mobility Division, Representative of European Investment Bank (Online)

Francisco de Magalhães, International Sales Manager, CaetanoBus

Andreas Noky, Project manager Hydrogen Filling Stations, Messer SE & Co. KGaA

Jaanus Tamm, Project manager, Tartu Linnavalitsus (Tartu City Government)

Session speakers joined by:

- **Normunds Feierbergs**, International Airport Riga, Member of the Board
- **Gints Burks**, Member of the Board, Jelgava Bus Park
- **Mārtiņš Niklass**, Head of Development Department, ZAOO SIA

13:45 **Networking lunch**

14:45 **Session IV. R&D in Latvian Hydrogen Industries**

Session moderator: Pēteris Lesničenoks, Latvian Association of Hydrogen, Member of the Board

Key topics to be covered:

- A hydrogen economy requires that hydrogen technologies be researched in the shortest possible time and then developed with a focus on real-world applications.
- R&D helps improve technologies to distribute hydrogen cost-effectively from the point of production to the point of end-use.
- The relevant hydrogen strategy provides support for basic research into hydrogen technologies and application-oriented development by businesses.

Advanced Nano-coatings to support the Hydrogen Economy

Hydrogen powered drone

Application of hydrogen fuel in gas turbine units

HySol, Refuel Your Future!

R&D services for high tech industries

Discussion panel, Q&A

• **Raivis Nikitins**, Chief commercial officer, Naco Technologies

• **Marek Alliksoo**, SKYCORN Latvia, CEO

• **Yuriy Deriy**, Director of Business Development, Ukrainian State Gas turbines research and production complex "Zorya-Mashproekt"

• **Antons Šaripo**, Project Engineer, INTRA Holding

• **PhD. Ainārs Ozols**, University of Latvia, Institute of Solid State Physics, "Materize"

16:15 **Wrap-up**

14:45 **Parallel Side event for students “Green Skills for the Green Deal”**
(For details, please see separate event agenda)

The forum programme is subject to change. All updates will be published on www.h2lv.eu.



Our supporters:



The forum is organised by Latvian Hydrogen Association and Hydrogen Europe within the framework of JIVE / JIVE 2 projects. The JIVE and JIVE2 projects have received funding from the Clean Hydrogen Joint Undertaking under Grant Agreements No 735582 and 779563. This Joint Undertaking receives support from the European Union’s Horizon 2020 research and innovation programme, Hydrogen Europe, and Hydrogen Europe Research.

About the JIVE and JIVE 2 projects: The JIVE and JIVE2 projects, which started in January 2017 and January 2018, will deploy 310 zero-emission fuel cell buses and associated infrastructure (under the MEHRLIN project) in 17 European cities and regions by the early 2020s – the largest deployment in Europe to date. The buses will be deployed in cities and regions in France, Germany, Italy, the Netherlands, Spain, and the United Kingdom.



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FORUM SIDE EVENT FOR STUDENTS

“GREEN SKILLS for the GREEN DEAL”

Riga Technical University, Science and Innovation Centre, Kipsalas street 6

14:45

Session moderator: **Dr.sc.ing. Laila Zemīte**, asoc.prof., vice dean of Faculty of Electrical and Environmental Engineering, Riga Technical University

Presentations:

- **Katarina Muse**, Hydrogen Europe, a Regional Pillar and Skills Manager
- **Ieva Dzelme** and **Daina Auziņa**, The DAAD, Team representatives (an association of German institutions of higher education and their student bodies)

Discussion panel, Q&A

Session speakers joined by:

- **Uldis Berķis**, Head of Smart specialisation Unit, Ministry of Education and Science of the Republic of Latvia
- **Andris Anspoks**, University of Latvia, Director of Institute of Solid-State Physics
- **Dr.sc.ing. Laila Zemīte**, asoc.prof., vice dean of Faculty of Electrical and Environmental Engineering, Riga Technical University