

Forum elektromobilita 2022

October 12–14 2022

FORUM KARLÍN
SPOJKA EVENTS

The Fifth Annual Conference on the
Present and the Future of Battery
and Hydrogen Electromobility

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Forum elektromobilita 2022

5th annual conference on the present and future of battery and hydrogen electromobility

**FIRST DAY OF THE CONFERENCE: BATTERY ELECTROMOBILITY
WEDNESDAY, 12 OCTOBER 2022, FORUM KARLIN**

The main topic will be mainly passenger vehicles

The Battery Electromobility Conference will be simultaneously interpreted into Czech/English
Online queries: sli.do event code: #emobcz, Event App Myia: QR code



Moderators:

Eva Srpová (Head of Automotive Editorial, Economia)

Martin Cmíral (Director LEEF Technologies)

Lukáš Folbrecht (Secretary, Electric Vehicle Platform)

8:30 - 9:00

Registration and welcome coffee

9:00 - 9:05

Introductory remarks by organizers

9:05 - 10:45

1. KEY NOTE SECTION: PERSPECTIVE OF ELECTROMOBILITY IN THE CZECH REPUBLIC

9:05 - 9:25

Development of Electromobility in the Czech Republic: Ambitions of the Ministry of Transport

Martin Kupka (Minister of Transport)

9:25 - 9:45

Electromobility in the Context of the EU Green Deal

Jan Dusík (Deputy for Management of the Climate Protection Section, Ministry of the Environment)

9:45 - 10:05

Electromobility in the Czech Republic: Status and Development Outlook to 2030

Pavel Cyrani (Vice-Chairman of the Board of Directors, Director of Sales and Strategy, CEZ)

- The state of charging infrastructure in the Czech Republic
- Customer behavior trends and implications for the development of electromobility
- Vision for the development of charging infrastructure and services by 2030

10:05 - 10:25

Today's energy challenges

Martin Gajdoš (Strategy & Business Analysis Director, ORLEN Unipetrol)

- What the year 2022 has brought
- Applying hydrogen by 2030

10:25 - 10:45

Future Mobility

Jiří Maláček (Head of Sales and Marketing, ŠKODA AUTO)

- Charging infrastructure in the Czech Republic)
- ESG
- Energy self-sufficiency

10:45 - 11:15

2. DEVELOPMENT OF PUBLIC CHARGING

Panel discussion: Development of Charging Infrastructure and Services

Pavel Elis (Managing Director, Pražská energetika)

Vladimír Janypka (Sales & Marketing Director, ABB)

Martin Klíma (Managing Director, E.ON Infrastructure CZ)

- Current status and expected development of the charging station network in the Czech republic
- The performance of charging stations (charging speed) is increasing, what can we expect in the near future?
- The evolution of public charging services: What does roaming look like, and what innovation can be expected?
- How can charging prices evolve (effect of electricity price, effect of infrastructure costs, especially ultra-fast charging hubs)?

11:15 - 11:30

Coffee break

11:30 - 14:15

3. FLEET ELECTRIFICATION

11:30 - 11:50

Electric Vehicles in the Fleets of Czech Companies

Petr Knap (Partner, EY Consulting)

- The development of electromobility in the EU context
- Perception of EVs by employees and fleet managers
- Implementation pitfalls and experience in fleets

11:50 - 12:10

Experience with the Introduction of Electromobility

Václav Lipowski (Country Finance Director, Wienerberger, Semmelrock, Wienerberger eurostroj, Pipelife Czech)

- Selection of suitable vehicles and plants
- Charging infrastructure solutions

12:10 - 12:55

Panel discussion: Electrification of Fleets

Martin Saitz (Managing Director, Hyundai Motor Czech)

Arnošt Barna (Managing Director, Kia Czech)

Jana Faltová (Business Performance Manager, Lease Plan)

Miroslav Holan (Head of Business Network Development, ŠKODA AUTO)

Petr Knap (Partner, EY Consulting)

- How the introduction of electric vehicles into company fleets is progressing
- How the Czech Republic compares to other countries
- What are the main lessons learned from the experience so far – what to keep in mind above all
- What are the biggest barriers

12:55 - 13:55

Coffee break

13:55 - 14:15

Experience with Electric Vehicles in Shared Mobility

Robin Švaříček (CEO, HoppyGo)

- What new opportunities does peer-to-peer car sharing bring for users and what opportunities does it bring for EV manufacturers?
- Who is most likely to rent electric cars and for what reasons? Who are the people who own electric cars and lend them out?
- Do electric cars even make sense in shared mobility? Data, experience, and lessons learned from CZ, PL, and SK markets

14:15 - 15:35

4. CHARGING SOLUTIONS AND SERVICES

14:15 - 14:35

A Unique Residential Charging Project in Brno

Tom Kratochvíl (Head of Electromobility, Teplárny Brno)

- Presentation of a unique project to build a comprehensive network of public charging stations in Brno
- The project focuses mainly on residential neighborhoods and housing estates in Brno
- Building quality infrastructure even in locations that are not yet economically beneficial

14:35 - 14:55

Electromobility Support in Sygic Navigation

Radim Cmar (Business Architect, Sygic)

- Sygic as an aggregation data and service platform for charge point providers
- Route calculation and navigation specification for electric vehicles
- Coordination of navigation with online vehicle data

14:55 - 15:15

Comprehensive Charging Infrastructure Solution

Tomáš Brouček (Business Development Director, Huawei)

- E2E (photovoltaic) solutions for residential, business and commercial environments
- Use of batteries not only for efficient vehicle charging
- Cooperation of a global manufacturer with local partners

15:15 - 15:35

Shell on the Road to Zero Emissions

Eva Belák Heberová (Head of Fleet Solutions, Czech Rep. & Slovakia, Shell)

- What is Shell's strategy
- Electromobility and Shell

15:35 - 15:50

Coffee break

15:50 - 16:40

5. TRANSFORMACE CZECH AUTOMOTIVE

15:50 - 16:10

E-mobility as a Job Motor for Europe and CZ

Kristian Kuhlmann (Managing Director and Partner, Boston Consulting Group)

Marc Schmidt (Project Leader, Boston Consulting Group)

- Major trends influencing job development in Auto industry
- Net impact of job development until 2030
- Transition over time, across industries and jobs

16:10 - 16:40

Panel discussion: How to Manage the Transformation of the Czech Automotive Industry to Electromobility?

Zdeněk Petzl (CEO, AutoSAP)

Lukáš Rosůlek (Managing Director and Head of Vitesco Technologies)

Petr Knap (Partner, EY Consulting)

Ondřej Votruba (Executive Director, Association for Foreign Investment - AFI)

- What needs to happen to ensure that the impact of the transformation is positive and jobs are not lost
- What the state needs to do, what companies need to do
- Practical examples of transformation projects

16:40 - 16:50

Final summary

Presentation of partners (Forum Karlín)

The conference will also include presentations of vehicles from major automakers and other products and services for electromobility and the opportunity to test drive selected models.

18:00 – 24:00

Networking dinner for registrants (Spojka Karlín)

Forum elektromobilita 2022

5th annual conference on the present and future of battery and hydrogen electromobility

**SECOND DAY OF THE CONFERENCE: BATTERY ELECTROMOBILITY
THURSDAY, 13 OCTOBER 2022, FORUM KARLIN**

The topic will be passenger cars, commercial vehicles/trucks and buses

The Battery Electromobility Conference will be simultaneously interpreted into Czech/English

Online queries: sli.do event code: #emobcz, Event App Myia: QR code



Moderators:

Eva Srpová (Head of Automotive Editorial, Economia)

Martin Cmíral (Director, LEEF Technologies)

Jan Fousek (CEO, Association for Energy Storage AKU-BAT CZ)

8:30 - 9:00

Registration and welcome coffee

9:00 - 9:05

Introductory remarks by organizers

9:05 - 10:10

1. LEGISLATION AND SUBSIDIES

9:05 - 9:50

Government Positions on the Development of Electromobility: Introduction for Key Ministries Followed by a Panel Discussion

Lenka Hlubučková (Deputy for Management of the Economic and Infrastructure Section
Department for Transport)

Lucie Krčmářová (Director of Sectoral Expertise and Industrial Policy, Ministry of Industry and
Trade)

Anna Pasková (Director of Department of Environmental Policy and Sustainable
Development, Section of Climate Protection, Ministry for the Environment)

- Positions of individual ministries on electromobility
- Current legislative topics
- Support programs

9:50 - 10:10

Regulatory Topics in Electromobility

Tomáš Dzurilla (Chairman of the Steering Committee, Electric Vehicle Platform)

- Speeding up permitting processes, possibilities to lease public land, simplifying the use of public aid
- How to learn as much as possible from past experience in the development of electromobility
- The role of the Electric Vehicle Platform

10:10 - 14:15

2. ELECTRIFICATION OF FREIGHT TRANSPORT

10:10 - 10:30

Emobility Shift – Practical Consequences For Customers

Pierre Jean Verge Salamon (CEO, Renault Trucks)

- Requirements
- Complication
- Data monitoring is the solution

10:30 - 10:50

Acquisition and Operation of Electric Trucks

Matěj Soukup (Key Account Manager, Mercedes-Benz Trucks)

- Offer of trucks with electric drive
- Availability of charging infrastructure for trucks
- The economic case for acquiring and operating an electric truck

10:50 - 11:05

Coffee break

11:05 – 11:25

Recharging Technology for Large Battery Vehicles

Miroslav Kuželka (ELEM Division Director - Electric Vehicle Charging Infrastructure, ABB)

- Heavy and passenger EVs can efficiently share charging technology within global standards
- Electric buses and electric trucks are a key element of urban electromobility
- Planning and utilisation of charging infrastructure for urban vehicles is both very efficient and very attractive for charging service providers

11:25 – 11:45

Alternative Drives in Logistics

Petra Čísařová (Head of Client Integration, Packeta Group)

- Sustainability as an advantage or obligation in the world of e-commerce
- What sustainability means for Packet
- Alternative drives in logistics

11:45 – 12:35

Panel discussion: Electrification of Freight Transport

Aleš Willert (Vice Chairman of the Board, General Manager of the C.S.CARGO Group)

Vojtěch Hromíř (Secretary-General, ČESMAD Bohemia)

Petr Jirasek (Electromobility Key Account, Volvo Trucks)

Miroslav Kuželka (ELEM Division Director - Electric Vehicle Charging Infrastructure, ABB)

Marek Prach (Regional Head of Supply Chain Operation, Asahi Europe & International)

12:35 - 13:35

Lunch time

13:35 – 13:55

IT Systems for Electrified Freight Transport

David Nurkovič (Product Owner eFleet Management, W.A.G. payment solutions)

- Context for the electrification of freight transport – Framework conditions and challenges
- Modern telematics system for electric trucks
- Destination charging – Requirements for a comprehensive charging infrastructure
- Pilot DHL – Provoz elektrického trucku VOLVO FL ELECTRIC

13:55 - 14:15

The ID. Buzz: Minibus and Van

Jakub Šebesta (Brand Manager, Porsche Česká republika)

- Place of the new VW electric car on the market
- Role ID. Buzz in the Volkswagen Group
- Sustainable mobility product

14:15 - 15:35

3. BATTERY ELECTRIC BUSES

14:15 - 14:35

Deploying a Full Charging Solution – a Case Study

Miku Kimber (Senior Business Development Manager, Scania)

- New Scania Citywide BEV buses
- Charging hardware and software
- Deployment and operation of the charging solution

14:35 - 14:55

Charging Solutions for Battery Electric Buses

Martin Šilar (Head of Emobility, Siemens)

- Plug-in and OppCharge charging method
- Mains-connected power technology
- Control and monitoring system
- Practical demonstration of a charging solution for electric buses in the country

14:55 - 15:35

Panel discussion: Experience with Electrification of Buses in the Czech Republic

Jan Šurovský (Member of the Board of Directors, Dopravní podnik hl.m. Prahy)

Martin Chovanec (Member of the Board of Directors, Dopravní podnik Ostrava)

Vladimír Homola (Chief Executive Officer and Vice-Chairman of the Board of Directors, ČSAD AUTOBUSY České Budějovice)

Martin Machek (Business Development Manager, CEZ ESCO)

Daniel Adamka (Managing Director, ARRIVA TRANSPORT CZECH REPUBLIC)

15:35 - 15:50

Coffee break

15:50 – 16:30

4. ELECTROMOBILITY AND DISTRIBUTION NETWORK

15:50 – 16:10

Impact of electromobility on the distribution network and planned measures*

Stanislav Votruba (Head of Section Network Concept, PREdistribution)

- What about the balance of expected future consumption and network capacity?
Where can we expect a problem and where will it not be a problem?
- What are the possible solutions?
- The current status of Smart Charging

16:10 – 16:30

Project "We Drive Solar", Utrecht

Robin Berg (Director, We Drive Solar)

- Project connecting thousands of solar panels, community battery and charging stations
- Includes a Vehicle-to-Grid (V2G) solution, in the first phase with a fleet of 25 IONIQ 5 vehicles
- Ambition is to create the world's first "bi-directional energy ecosystem"

16:30 – 17:10

5. BATTERIES

16:30 – 16:50

Current and Future Battery Technologies for Electromobility and other Applications

Tomáš Kazda (Associate Professor, Department of Electrical and Electronic Technology, Brno University of Technology)

Martin Šedina (Doctoral Student, Department of Electrical and Electronic Technology, Brno University of Technology)

- The current state of Li-ion battery production capacity in the EU
- Overview of the technologies used
- Battery technology in the near future

16:50 – 17:10

Second Life Batteries

Jan Železný (Product Strategy Manager, ŠKODA AUTO DigiLab)

- The concept of reusing batteries from electric vehicles
- Getting ready for the second life batteries market – SEVES project
- ŠKODA AUTO's practical experience

17:00 - 17:15

Final summary

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**THIRD DAY OF THE CONFERENCE: HYDROGEN ELECTROMOBILITY
FRIDAY, 14 OCTOBER 2022, SPOJKA EVENTS**

It's not just about vehicle and filling station technology, but largely about where (low-emission) hydrogen will come from in the Czech Republic and what its transport will look like

Lectures on the third day of the conference will be held only in Czech
On-line questions: sli.do event code: #emobcz, Event App Myia:



The program is prepared in cooperation with HYTEP and AKU-BAT

Moderators:

Aleš Doucek (Head of the Hydrogen Technology Section, ÚJV Řež)

Martin Cmíral (Ředitel, LEEF Technologies)

Jan Fousek (CEO, Association for Energy Storage AKU-BAT CZ)

8:30 - 9:00

Registration and welcome coffee

9:00 - 9:05

Introductory remarks by organizers

9:10 - 10:30

1. INTRODUCTION TO ZERO/LOW EMISSION HYDROGEN

9:10 - 9:30

The Future of Hydrogen in Central Europe

Martin Tengler (Bloomberg NEF Lead Hydrogen Analyst, BloombergNEF, Tokyo Office)

- How much will it cost to produce hydrogen?
- What will the logistics look like?
- What industries will use hydrogen?

9:30 - 9:50

Current European Legislation in Support of Low-Carbon and Renewable Hydrogen

Markéta Adamcová (Project Manager, LEEF Technologies)

Jan Sochor (Development Specialist, Czech Hydrogen Technology Platform - HYTEP)

- Current definitions and conditions for renewable hydrogen production
- Current definition and conditions for low-carbon hydrogen production
- Supporting demand through the Renewable Energy Directive

9:50 - 10:30

Panel discussion: Conditions for the development of emission-free hydrogen in the Czech Republic

Jan Bezděkovský (Clean Mobility Officer to the Secretary of State for Transport, Department for Transport)

Ivo Marcin (Director of the Department of Fund Strategy and International Cooperation, State Environmental Fund)

Daniel Minařík (Representative of the Governor of the Moravian-Silesian Region for Hydrogen Region Development)

Martin Mata (Director of the Innovation Centre of the Ústí nad Labem Region)

- A global and European perspective on hydrogen
- Myths and realities of hydrogen economy development
- What "types" of hydrogen will be acceptable in the EU? Context REPower EU and Fit for 55
- Is emission-free hydrogen worth producing in the Czech Republic and/or will it be imported?
- What will be the price of hydrogen
- What grant programs are/will be available

10:30 - 10:45

Coffee break

10:45 - 12:05

2. HYDROGEN PRODUCTION, STORAGE AND DISTRIBUTION

10:45 - 11:05

Optimised Solutions for Hydrogen Supply

Vít Tuček (Head of Hydrogen Technology Development, Messer Technogas)

- Hydrogen production, distribution and storage
- Conditions for green hydrogen production
- Successful hydrogen projects for vehicle propulsion

11:05 - 11:25

Hydrogen Mobility

Zuzana Janatová (Business Development Manager Hydrogen for Mobility, Air Products)

- Hydrogen and our experience in production, storage and distribution
- How we approach sustainable resources and our plans
- Hydrogen mobility in the Czech Republic

11:25 - 12:05

Panel discussion: How Hydrogen Production, Import and Distribution Will Look Like in the Czech Republic

Vladislav Smrž (Business Development, Cylinders Holding)

Martin Panáč (Sales Manager, Siemens)

Petr Kůt (Project Manager, ORLEN Unipetrol)

- How/where will hydrogen be produced on a large scale in the EU and how does it look with production possibilities in the Czech Republic - practical examples
- PPA contracts as a tool for hydrogen production
- What are the technologies and costs of hydrogen storage (in terms and dimensions relevant for the Czech Republic)

- Transporting hydrogen by vehicles: what are the ways and how much does it cost
- Filling station technology
- The prospect of hydrogen distribution through gas networks: what it entails and when it will be possible

12:05 - 13:05

Lunch time

13:05 - 14:25

3. HYDROGEN VEHICLES

13:05 - 13:25

Hyundai hydrogen activities in the Czech Republic

Marek Trešl (Product & Marketing Director, Hyundai Motor Czech)

- Where does hydrogen make sense?
- Hyundai fuel cell vehicles
- Plans in the Czech Republic

13:25 - 13:45

Future of Mobility – the First Hydrogen Truck in the Czech Republic

Jan Kodada (Attorney, Sales and Marketing Director, Gebrüder Weiss)

- Experience of Gebrüder Weiss with a hydrogen car in Switzerland
- Gebrüder Weiss' experience from a pilot test in the Czech Republic
- Challenges of hydrogen technology and how to face them

13:45 - 14:05

Hydrogen Tatra Development Project

Radomír Smolka (R&D Director, Tatra Trucks)

- Basic design directions for Tatra vehicles with electric drives
- Presentation of the Tatra fuel cell vehicle project
- Basic parameters of the Tatra fuel cell vehicle

14:05 - 14:25

The Coradia iLint Hydrogen Train

Daniel Kurucz (Managing Director Czech Republic and Slovakia, Alstom)

- Technology development and adaptation
- Alstom a pioneer
- Important milestones and other necessary points for the expansion of the hydrogen solution

14:25 – 14:40

Coffee break

14:40 – 15:45

4. HYDROGEN PROJECTS FOR TRANSPORT

14:40 – 15:00

Holland Hydrogen Project I. – 200 MW Electrolyser in Rotterdam

Milan Černický (Global Hydrogen Key Account Manager, SHELL Slovakia)

- Goals and expectations from the construction of the largest electrolyser in Europe
- Use of green hydrogen

15:00 – 15:10

Hydrogen Plans and Projects of ORLEN Unipetrol

Petr Kůt (Projektový manažer, ORLEN Unipetrol)

15:10 – 15:20

Plans and Projects of CEZ in the Field of Hydrogen

Aleš Laciok (Research and Development Coordinator, CEZ Group)

- Possibilities and limits of hydrogen economy in the Czech Republic in general
- Plans of CEZ in the field of hydrogen economy
- Project example: Hydrogen production for bus transport in the Central Bohemian Region
- Project example: Hydrogen production in the western part of Slovakia

15:20 – 15:30

Veolia's Hydrogen Vision and Projects

Arnošt Gross (Head of Reporting, Regulation and Special Projects, Veolia Energie CR)

- Current generation projects
- Future plans with hydrogen technologies
- The joys and sorrows of hydrogen

15:30 – 15:45

Panel discussion: Lessons from the Development of Projects in the Czech Republic, What Needs to Be Done to Start Real Development

Arnošt Gross (Head of Reporting, Regulation and Special Projects, Veolia Energie CR)

Aleš Laciok (Research and Development Coordinator, CEZ)

Petr Kůt (Project Manager, ORLEN Unipetrol)

- Examples of projects prepared in the Czech Republic and abroad
- Competitiveness of Czech projects within the EU
- Practical experience with real development
- Financing

15:45 – 15:50

Final summary