

# 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 Dušík** (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



# Forum elektromobilita 2022

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

**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](https://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**