



Impressions of 2024



Electric Powertrains and Energy Systems 2025

A sustainable future with electrification

26 – 27 March 2025
Berlin, Germany

Call for Papers
Apply online now

Submission of proposals
no later than
2 September 2024



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SCIENTIFIC DIRECTOR

Prof. Dr. Peter Gutzmer

Editor-in-Charge ATZ | MTZ Group

A sustainable future with electrification

/ POWERTRAIN SOLUTIONS AND COMPONENTS FOR BEV, REX, PHEV, AND FCEV

Technology, systems, sustainability, and cost-effectiveness

/ RENEWABLE ELECTRICITY GENERATION, STORAGE, AND GRID INFRASTRUCTURE

Storage systems, use of H₂ and its infrastructure, global systems

/ CHARGING INFRASTRUCTURE

Bidirectional and fast charging, grid integration, costs, range, charging time

/ INTERNATIONAL APPROACHES

Production, distribution chains, costs

/ CLIMATE PROTECTION AND SUSTAINABILITY

through solutions based on renewable electricity (LCA, CO₂ circular economy, CO₂ footprint)



Prof. Dr. Peter Gutzmer
Editor-in-Charge ATZ | MTZ Group,
Springer Nature

Welcome

Energy and mobility systems based on renewable electricity require a comprehensive network. Progress in powertrain and storage technology must also take economic and social aspects into account. There are now increasing numbers of more efficient and cost-effective electric cars, while for commercial vehicles the focus is on both BEVs and FCEVs.

What technology standards are emerging? How will the market launch for CVs take place? How will the provision and distribution of renewable electricity to charging points be expanded? How is a hydrogen network being established?

What will the political and industrial response be to the weak market demand in the USA and Europe? How will the world's leading markets develop in the next 5 years?

Our focus is on an exchange of information between leading representatives from the automotive and energy industries, grid operators, and politicians. I cordially invite you to present a paper at the 19th International MTZ Conference on Electric Powertrains and Energy Systems. Details for your presentation submission can be found in this Call for Papers.

On behalf of the Scientific Advisory Board

Stay at the cutting edge!

- ✓ Highly relevant technical papers presented by renowned speakers
- ✓ Networking in the international expert community
- ✓ Innovative products and services

IN FOCUS

Implementing electrification sustainably!

Electric Powertrains and Energy Systems

The technological transformation in individual mobility on the basis of regenerative primary energy requires an intensified technical exchange of ideas between leading representatives of the automotive and energy industry on the one hand and science and politics on the other. For that reason, this congress will focus on topics that not only describe the change in vehicle powertrains, but also present technological solutions in the associated infrastructure, including the provision of primary energy. Discussions will concentrate on political framework conditions as well as on systemic innovations for the future and digital solutions.



Participants

This ATZlive congress is aimed at executives and engineers as well as experts in industry, authorities, NGOs, and scientific institutes who are involved in powertrain development, the generation and distribution of hydrogen and electricity, the expansion and integration of the power grid, international markets, production networks, and supply chains.

Media partners



Scientific Advisory Board

Our Scientific Advisory Board, which is made up of prominent experts in their respective fields, provides support during the planning phase of the congress and helps to identify suitable topics.

With its expertise the board will make a valuable contribution to the choice of themes for the lecture program.



Prof. Dr. Peter Gutzmer
Editor-in-Charge ATZ | MTZ Group,
Springer Nature

Scientific Director of the Congress

Dr. Norbert Alt
FEV Group GmbH

Klaus Baumgärtner
BridgingIT GmbH

Prof. Dr. Bernhard Geringer
Austrian Society of Automotive
Engineers (ÖVK)

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AVL List GmbH

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Shell Deutschland GmbH

Dr. Marco Warth
MAHLE GmbH

Ursel Willrett
IAV GmbH

Electric Drive Systems and Components

BEV | REX | PHEV | FCEV | Transmissions in electrified powertrains

Traction Batteries

Level of maturity | Production and availability | Additives | Calibration | Raw materials | Efficiency | Recycling | Second life

Fuel Cell and Hydrogen Technologies

Level of maturity | Production | Availability | Infrastructure | Additives | Calibration | Storage inside and outside the vehicle

Energy and Thermal Management

Efficiency improvements and emission reduction | Operating strategies in connected drivetrains | Waste heat utilization | Heat protection | Battery management

Infrastructure and Markets for Electricity and Hydrogen

Business models | National and international framework conditions in politics and business

Grid Integration for Electricity and Hydrogen

Political framework conditions | Generation, transmission, distribution | Sector coupling | Charging and refueling infrastructure – expansion and standardization | Utilization of flexibilities | Data services, data transmission, data security

Technology for Electricity and Hydrogen Infrastructure

Requirements for components and systems | Energy storage systems | Charging and refueling systems | Energy and thermal management

Production Technologies, Value Chains and Sustainability

Your presentation platform

Take this opportunity to present your latest products and services to the specialist audience: as an exhibitor in our exclusive exhibition and/or as a sponsor with an attractive advertising presentation. Make use of this industry meeting place to make valuable contacts with customers!

For information on the various presentation options, please contact:
Mr. Alex Woidich
Phone +49 611 7878-206 | alex.woidich@springernature.com

Further information and online submission of your proposal:



www.atzlive.de/en/powertrain

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Are you interested in presenting a paper on one of these subjects?

If so, please submit a short version of your paper via the online portal to the event page indicated.

Your submission proposal in English (please submit documents in PDF) should contain:

- The title of the paper
- The name of the speaker with job title, company address, telephone number and e-mail address
- The name of any co-authors with company address
- The main points and a brief summary of the paper's contents (abstract)
- Brief summary of the innovative value of the work
- Classification under one of the main subject areas

On the basis of the short version of the paper, the Scientific Advisory Board for the congress will decide on its acceptance.

Information on the congress

The time allowed for presentation is 20–25 minutes with a subsequent discussion. The registration fee will be waived for one speaker per paper presented. The language of the manuscripts and slides is English.

Schedule

Deadline for submission proposals: **2 September 2024**

Notification of the authors: **beginning of October 2024**

Submission of final manuscripts: **10 February 2025**

The final congress program will be published in December 2024.