

Peter Gresch

Managing Partner of PGUB Management Consultants GmbH, founded in September 2013

- Graduate in Electrical Engineering, specialized in electromechanical design, TU Darmstadt
- More than 25 years of international experience in fields of electrical/ electronics in the automotive industry, in senior management and executive positions at Brose and TE Connectivity, Delphi, Hella and Opel/ GM
- Chairman ZVEI Automotive Conference
- Chairman Electronica Automotive Conference
- Chairman E-Mobility Congress China
- ZVEI Automotive Board Member
- ZVEI Senior Expert in various Working Groups

Florian Heinzelmann

Junior Consultant at PGUB Management Consultants GmbH in the field of E-Mobility

Other Industry Experts

According to any topic focus, various industry experts from the EE sector with many years of experience in E-Mobility at suppliers such as Delphi and/ or the ZVEI expert committees, will complete the workshop team.

International Experts for Mechatronic Task

Main areas of expertise with focus on Automotive:

■ E-Mobility



■ Lighting Systems



■ EE-Systems



■ Mechatronics



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E-Mobility Strategy Workshops and Global Consulting Projects



Hype or Market Change? Potential and current Challenges of E-Mobility

- Comparison of vehicle concepts: Micro to full hybrid, range extender to e-vehicle
- Charging infrastructure and technology: AC and DC charging (conductive and inductive) in practical tests
- Power electronics and energy storage
- HV wiring, EMC & crash behavior: Safety challenges from the vehicle to the charging station
- Trends in battery technologies, risks and their effects (e.g. warranty)
- Consequences and opportunities for OEMs and suppliers

Inform Yourself

The focus is not only on fuel savings, but also on the noticeable benefit for the end customer

- More performance/ improved driving experience
- General added value (assistance functions, 4WD, ...)

Global (2020)

- 6.5 million full hybrids
- 3.0 million plug-in hybrids
- 2.5 million pure electric vehicles

China (2020)

- 5 million NEVs – New Energy Vehicles
(Full hybrid, plug-in hybrid and pure electric vehicles)

European Market (2020)

- 1.3 million full hybrids
- 0.5 million plug-in hybrids
- 0.4 million pure electric vehicles

The electrification of vehicles will drive the new kind of individual mobility

- On the way to become a mass market

Basic Workshop

Full Day:

Deepening customer-specific topics for newcomers as well as for experts from various fields

Half Day:

A compact overview of the key concepts and solutions in the field of E-Mobility for new entrants

Full Day Workshop

Focus E-Mobility:

Traction machine, power electronics, energy storage, vehicle safety

- Motor types and drive variation for EV/ HV: What happens in practice?
- DC/ DC converter & onboard charger: Technical challenges of the components and their interconnection
- Battery alternatives and applications
- Importance of auxiliary units for consumption and current challenges in thermal management and air-conditioning
- Active and passive safety of electric vehicles

User acceptance across industries: Charging infrastructure and technology

- Key aspects of mobile usage behavior
- Profitability and business models of charging infrastructure
- Practical tests in vehicle to grid and network integration
- Conductive vs. inductive charging: What are the trends?
- Technical challenges of AC and DC charging
- (International) Standards & Regulations: Overview of standardization issues
- High-voltage and electromagnetic compatibility as safety challenge

Half Day Basic Workshop

We provide you with a compact overview of

- Evaluation and comparison of different vehicle concepts
- Products and product strategies in the field of E-Mobility
- User requirements and possible business models for E-Mobility
- Impact on the production and logistics of electric vehicles and components
- Technical components and their integration into the entire vehicle



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