

# Grid Integration of Electric Mobility

Taking the mobility transition forward

2nd International ATZ Conference

16 and 17 May 2017 | Berlin | Germany



Simultaneous Interpreting  
German and English

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**INTEGRATING  
DECENTRALIZED  
RENEWABLE ENERGY  
SOURCES**

**EXPLOITING  
THE FLEXIBILITY OF  
CHARGING PROCESSES**

**DATA TRANSMISSION AND  
DATA SECURITY**

**INFRASTRUCTURE AND  
REGULATORY FRAMEWORK**

/// KEYNOTE LECTURES

**Christian Senger, Volkswagen AG | Volker Blandow, TÜV SÜD AG**

/// NOW WITH THEMED WORKSHOPS

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# Grid Integration of Electric Mobility

## WELCOME

In future, cars will be powered by a combination of a combustion engine and an electric motor or simply by an electric motor. Battery electric vehicles are the best solution in energy terms and they have the potential to become virtual power stations. The future of personal transport depends on a networked infrastructure, which is why electric mobility needs swarm intelligence and the accompanying legislation.

The electric vehicles of tomorrow will function as manageable electricity consumers and storage facilities in order to help stabilize electricity grids. Electric mobility can only be a success when the new architecture that consists of the powertrain and the complete vehicle has a viable connection to intelligent electricity grids and can make targeted use of information technology. This success can only be achieved by means of an industry-wide network.

ATZlive aims to take the initiative in this area and, for this reason, is promoting this approach together with like-minded partners. We are holding an international discussion forum for representatives of the automotive industry, energy supply companies, data service providers, IT organizations, NGOs and the world of politics on 16 and 17 May 2017 in the Maritim proArte Hotel in Friedrichstraße in Berlin with the aim of discussing global and regional challenges and possible solutions. Alongside interesting presentations, the event also offers themed workshops where you can take part in an open discussion on one of four cutting-edge topics together with other industry specialists.

We would like to invite you to attend the conference in Berlin and make the most of this opportunity to meet key experts in this field.

On behalf of the Scientific Advisory Board

Your

Dr. Johannes Liebl

Editor-in-Charge ATZ | MTZ | ATZelektronik



## PARTICIPANTS

This ATZ conference is aimed at managers and engineers at car makers, suppliers, development service providers, research institutes and universities, telecommunications service provider, IT companies, energy providers and grid operators, federal and state ministries, associations and NGOs who work in the field of electric mobility.

# PROGRAM

TUESDAY 16 MAY 2017

9:15 **Welcome and opening of the conference**

Dr. Alexander Heintzel,

Editor-in-Chief ATZ | MTZ | ATZelektronik | lwd lightweight.design;

Dr. Johannes Liebl, Editor-in-Charge ATZ | MTZ | ATZelektronik

## KEYNOTE LECTURES

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Moderator: Dr. Johannes Liebl,

Editor-in-Charge ATZ | MTZ | ATZelektronik

9:30 **NEW Volkswagen –**

**The MEB shaping the future of integrated e-mobility**

Christian Senger, Vice President Product Line E-Mobility,

Volkswagen AG

10:15 **Electric mobility, renewable energies and**

**climate protection – challenges for our infrastructures**

Volker Blandow, Global Head of E-Mobility, TÜV SÜD AG

11:00 Refreshment break with coffee and tea in the exhibition area

## ENERGY SYSTEMS

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Moderator: Tina Zierul, Manager Domain Mobility, E.ON Metering GmbH

11:30 **Transformation of the German energy and  
transport system – a national analysis**

Dr. Kathrin Goldammer, Managing Director, O. Arnhold,

M. Fleck, F. Grüger, J. Hartmann, O. Hoch, B. Schachler,

Reiner Lemoine Institut gGmbH

12:00 **The climate benefits of electric mobility: Will they happen  
automatically? Experiences from the BMUB project**

**“Ensuring the climate benefits of electric mobility”**

Peter Kasten, Senior Researcher, J. Bracker, F. Hacker,

C. Timpe, Oeko-Institut e. V.

12:30 **Impact of different charging strategies  
for electric vehicles on their grid integration**

Mathias Müller, Research Assistant, F. Samweber,

S. Fattler, The Research Center for Energy Economics

13:00 Lunch in the exhibition area

## PARALLEL THEMED WORKSHOPS WITH INTRODUCTORY LECTURE

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Moderator: Dr. Alexander Heintzel,

Editor-in-Chief ATZ | MTZ | ATZelektronik | lwd lightweight.design

14:00 **Ultra fast charging – motivation, challenges and  
infrastructure requirements**

Dr. Daniel Gleyzes, Project Manager, BMW Group



14:30 **Parallel themed workshops:** Choose your preferred topic and take part in an open discussion with experts and specialists.

**A “Charging infrastructures above 150 kW”**

Moderator: Oliver Arnhold, Reiner Lemoine Institut gGmbH

**B “Bidirectional charging”**

Moderator: Xaver Pfab, BMW Group

**C “Inductive charging / DC charging below 20 kW”**

Moderator: Dr. Gunnar Bärwaldt, Volkswagen AG

**D “Mobility 2050”**

Moderator: Gero Lücking, LichtBlick SE;

Brief presentation: Christian Hochfeld, Agora Verkehrswende

15:00 Refreshment break with coffee and tea in the exhibition area

## **GRIDS**

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Moderator: Dr. Eyk Bösche, Deputy Project Manager,  
VDI/VDE Innovation + Technik GmbH

15:30 **Integration of distributed flexibility into the power system – requirements and needs of the transmission grid**

Axel Kießling, Team Manager Customers & Markets,  
M. Schutz, TenneT TSO GmbH

16:00 **Seven years in research projects – why e-cars go well with our LV-grids**

Dr. Johannes Schmiesing, Head of Electric Grid Development,  
B. Lehde, Avacon AG

16:30 **Grid integration of conductive and inductive high-power charging systems**

Prof. Dr. Bernd Engel, Head of the Institute for High Voltage  
Technology and Electric Power Systems – elenia, J. Wussow,  
J. Mummel, TU Braunschweig

17:00 **The “flexibility-aggregator” as the missing link between customer systems and flexible platforms**

Karsten Miede, Head of Energy Management and E-Mobility  
Services, VW Kraftwerk GmbH

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19:00 **Evening of encounters at the restaurant Humboldt Terrassen**

Enjoy a delightful evening and interesting conversations over dinner with colleagues and speakers. Brief presentations on the key messages from the themed workshops will round off the evening program.

# PROGRAM

WEDNESDAY 17 MAY 2017

## SOLUTIONS I

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Moderator: Sven Schreiber, Executive Vice President,  
SMA Solar Technology AG

- 8:30 **EV smart grid integration with mobile smart meters**  
Knut Hechtfischer, Senior Advisor Strategic Corporate  
Development & Finance, ubitricity Gesellschaft für verteilte  
Energiesysteme mbH
- 9:00 **Benefits of e-mobility for cross-sector energy management**  
Ulrich Schmack, Managing Director, K. Heller, P. Köhler,  
Digital Energy Solutions GmbH & Co. KG
- 9:00 **Renewable energies for electric mobility –  
an integrated solution for the electric transport of the future**  
Dr. Jens Winkler, Head of Energy Management, A. Beekmann,  
ENERCON GmbH
- 10:00 Refreshment break with coffee and tea in the exhibition area

## STANDARDIZATION

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Moderator: Sven Schreiber, Executive Vice President,  
SMA Solar Technology AG

- 10:30 **Interoperability between charging infrastructure and  
electric vehicle – systematic testing of the  
communication standard ISO 15118**  
Ursel Willrett, Senior Technical Consultant Infrastructure  
Systems E-Mobility, IAV GmbH
- 11:00 **Smart charging management for fleets and car pools**  
Benjamin Kowatsch, Bachelor Student, D. Großmann,  
Vector Informatik GmbH
- 11:30 **Customer Experience and sector linkage: Why an holistic  
view is crucial for the success of electromobility**  
Klaus Baumgärtner, Managing Director, BridgingIT GmbH
- 12:00 Lunch in the exhibition area



## SOLUTIONS II

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Moderator: Gero Lücking, Managing Director Energy Management,  
LichtBlick SE

13:00 **Sector coupling in smart homes in an “all electric society”**  
Detlef Beister, Business Development Manager,  
SMA Solar Technology AG

13:30 **BMW Digital Charging Service**  
Simon Mareski, Product Manager, Dr. W. Prestl, C. Türel,  
BMW Group

14:00 Refreshment break with coffee and tea in the exhibition area

## MARKETS

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Moderator: Dr. Kathrin Goldammer, Managing Director,  
Reiner Lemoine Institut gGmbH

14:30 **Together we can build a smart charging ecosystem**  
Frank Geerts, Program Manager Smart Charging,  
Baerte de Brey, Chief International Officer, ElaadNL,  
The Netherlands

15:00 **Development trends in electric mobility in China**  
Sandra Retzer, Head of Cluster Sustainable Urbanization,  
Transportation and Energy, Deutsche Gesellschaft für  
Internationale Zusammenarbeit (giz) GmbH, China

15:30 **Electric mobility in Japan – an European perspective**  
Hartmut Stiller, Business Consultant E-Mobility

16:00 **Closing remarks**  
Xaver Pfab, Project Manager E-Mobility Grid Integration,  
BMW Group;  
Dr. Alexander Heintzel,  
Editor-in-Chief ATZ | MTZ | ATZelektronik | Iwd lightweight.design



## THE CONFERENCE IS SUPPORTED BY BMW i

BMW i is a BMW Group brand and stands for visionary vehicle concepts and technologies, connected mobility services as well as a new understanding of premium strongly defined by sustainability. BMW i is represented in 50 countries with the vehicles BMW i3 (electric car for metropolitan regions) and the BMW i8 (Plug-in-Hybrid sports car).

BMW i also incorporates BMW iPerformance automobiles (all BMW Plug-in-Hybrid vehicles) and the associated mobility services DriveNow (CarSharing), ReachNow (CarSharing 2.0), ChargeNow (easy access to the biggest charging point network worldwide), ParkNow (easy search, reservation and payment of parking spaces), BMW i Ventures (investment in young companies with the focus on urban mobility) and the BMW i Urban Mobility Competence Centre (for consulting cities, towns and municipalities).

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## MEDIA PARTNERS

**ATZ** **ATZ** elektronik





## THE CONFERENCE IS SUPPORTED BY BRIDGING IT

bridgingIT was founded in 2008 as an independent IT consulting company. The enterprise sees itself as an innovative service provider and connects the requirements of IT with the business. Located in Frankfurt, Karlsruhe, Cologne, Mannheim, Munich, Nuremberg, Stuttgart and Zug (Switzerland) the employees consult medium sized businesses and large customers with the implementation of company strategies and the utilization of modern technology. Being a full service provider bridgingIT offers a focused portfolio and operates vendor independent steadily.

Operating one of the biggest fully electric longdistance fleet in Germany in combination with an innovative corporate mobility concept, including charging infrastructure, bridgingIT takes a leading role with respect to future oriented mobility.



<http://www.bridging-it.de/content/index.html>

## THE NEW eMAGAZINES ATZworldwide AND ATZelektronik worldwide

All the participants in the conference will receive our new English-language eMagazines free of charge and without any obligation.

We will give you free access for 30 days.



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Elke van Lon

Phone +49 611 7878-320

[elke.vanlon@springer.com](mailto:elke.vanlon@springer.com)



## REGISTRATION FEE

€ 1,395.– plus VAT

This includes the conference documentation, coffee breaks, soft drinks, two lunches, and the evening reception.

## VENUE

Maritim proArte Hotel Berlin  
Friedrichstraße 151  
10117 Berlin | Germany

## HOTEL

The hotel has room blocks at reduced prices for the participants.

**Please make your reservation quoting the reference “Grid Integration” by 3 April 2017 the latest.**

### **Maritim proArte Hotel Berlin**

Friedrichstraße 151  
10117 Berlin | Germany  
Phone +49 30 42033-5  
info.bpa@maritim.de  
www.maritim.de  
€ 159.– Single room, including breakfast

## LANGUAGES USED IN THE PRESENTATIONS

German and English with simultaneous interpreting  
(German – English / English – German)

## CONDITIONS

No cancellation charge is due if registration is canceled by 17 April 2017. Cancellations made after that date will incur a charge of 35 % of the registration fee. For cancellations made after 24 April 2017 the full registration fee is payable. Cancellations must be made in writing. The date of the postmark will determine whether the deadline has been met. If you are unable to attend, we will be happy to accept a substitute participant.

Should a speaker be unable to attend at short notice by reason of force majeure, illness, accident, or other circumstances for which ATZlive cannot be held responsible, another qualified person will be appointed to the exclusion of any claim for compensation. Should the event be canceled altogether, we will of course refund the registration fee.

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## THE ORGANIZER

**ATZlive**

**// Spotlight on Powertrain and Vehicle Engineering //**

**ATZ** live

ATZlive organizes its high-caliber conferences for vehicle and engine specialists together with key representatives from research and industry to ensure that they are tailor-made to the needs of the participants and address the very latest issues. Our close collaboration with the editorial teams of our specialist magazines ATZ and MTZ keeps us fully up-to-date on the latest topics and trends on the market.

# CONFERENCE REGISTRATION

## Grid Integration of Electric Mobility

16 and 17 May 2017 | Berlin | Germany

In accordance with the General Terms and Conditions and the price list, I would like to order the following:\*

☐ Participation in the conference at a price of € 1,395.– plus VAT

\* The General Terms and Conditions of ATZlive apply,  
as published on the website [www.ATZlive.de/AGB](http://www.ATZlive.de/AGB)

I would like to take part in the following themed workshop  
(see Tuesday 16 May 2017 at 14:30):

☐ A or ☐ B or ☐ C or ☐ D

### Registration data

Family name

First name

Acad. title

Company / Institute

Department

Function

Street / P.O. box

Postal code / City

Country

Phone

Fax

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