

VDI

International VDI Conference 2018

Charging Infrastructure for Electromobility

Keynotes:
Warwick
University &
Imperial College

November 28 and 29, 2018, Amsterdam, The Netherlands

- Experiences from the UK, Finland, Sweden, Spain, Portugal, France, The Netherlands & Germany
- Using EVs as Battery Storage - The Benefits and Opportunities
- The technical and economic Challenges of increased Renewables from an Energy Suppliers Viewpoint
- Integration of EV-chargers into Households and Distribution Grids
- China EV Charging Infrastructure and the EV Charging Operations - The Technology with V2G and its Role with Energy Network

+ Parallel conferences „Smart Cars & Urban Mobility“ and „Future of Busses“

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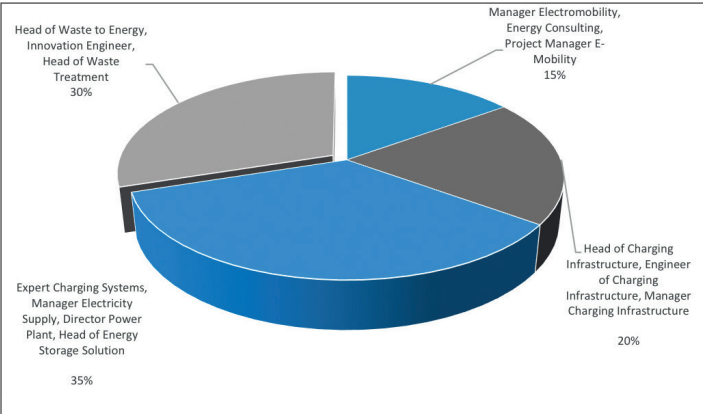


About us



The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

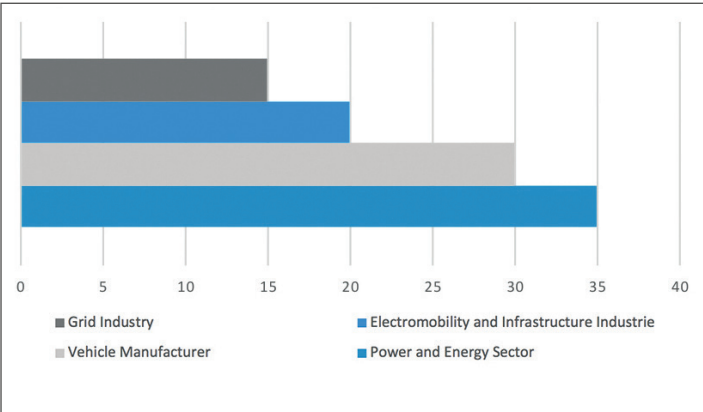
Expected Participants according to Functions



Reasons to attend

- Meet** our international Experts from Countries like Finland, The Netherlands, Sweden, Portugal, Spain, the UK and many more and listen to their Experiences
- Hear about** the Challenges of increased Renewables from an Energy Suppliers Viewpoint
- Discuss** the Benefits of using EVs as Battery Storage
- Get informed about** the Role of static Energy Storage for Electric Vehicle Charging Infrastructure
- Prepare for** the global Outlook for plug in Vehicles
- Benefit from** an international Expert Meeting attended by Participants from all over the World

Expected Participants according to Industries



08:30 Registration & welcome coffee

09:30 Chair's welcome and opening address
Dr. Kotub Uddin, Head of Research, Ovo Energy, UK

I. Challenges and Opportunities in Electric Vehicle Infrastructure
Development and Deployment

09:45 Overcoming Power Constraints: The Role of Static Energy Storage for Electric Vehicle Charging Infrastructure

- Necessity of more charging infrastructure
- Charging supply issues for busses and taxis
- Road electrification for heavy freight vehicles
- Avoiding expensive reinforcement by deploying static battery storage systems

Professor Richard McMahon, Professor, WMG Warwick University, UK



10:25 Using EVs as Battery Storage - The Benefits and Opportunities

- Review of the motivation for EV uptake in the UK and globally - Why do/why will we have so much spare capacity driving around?
- What technology can we use to access this?
- What is the market opportunity in doing this?
- How can EV8 Technologies help?

Dr. Rebecca Gough, Head of Solutions, EV8 Technologies, UK

11:05 Networking & Coffee break

11:35 Integration of EV-chargers into Households and distribution Grids – Artificial intelligence improved Energy Flows

- The renewable residential "energy change" is a decentral
- Distributed PV generators and e-Mobility will generate additional volatility
- There is plenty of flexibility available in energy consumption and storage
- Forecast based Energy management based on AI is solving these issues at the place of its origin – in the private household

Yetvart Artenoglu, Director Business Development & Marketing, GridSense, Switzerland

12:15 The Electric (shared) Vehicle as Part of the sustainable Energy Grid

- The success of shared electric vehicles as solution in urban and rural areas in The Netherlands
- Electric vehicles as part of the energy grid, some current Dutch projects
- Smart charging combined with photovoltaic, local storage and shared electric vehicles = FUTURE???!!!

Edwin Bestebreurtje, Partner & Senior Consultant, Fier Automotive & Mobility, The Netherlands

12:55 Lunch

14:25 Challenge of Charging in City Centres

- 56% of European city dwellers do not have off street parking
- Car battery sizes are increasing
- Inadequate infrastructure - Planning and optimizing
- Battery storage to take unused overnight energy and support the local grid
- Future proofing the solution

Clive Southwell, Managing Director, Electric Vehicle Distribution Limited, UK

15:05 Adoption of Electric Vehicles: Challenges the Consumer/Supplier Relationship

- Why the process needs to change
- New technology lets us rethink the process
- Two winners: The consumer and the OEM
- Examples of how the process is being reinvented

Gerard Chaustow, Founder of TryEV.com and ElectricStreets.com, UK

15:45 Networking & Coffee break

II. Trends and Possibilities of Short Distance Traffic

16:15 Trends in EV Charging

- High Power Charging and Power level based on use case
- Wireless charging
- E-Buses
- VGI (vehicle grid integration): V2G, storage, load management

Pedro Silva, Managing Director, Efacec Electric Mobility, Portugal

16:55 Smart Charging Solutions

- Plug and Charge and other ISO 15118 functionalities
- IT-backend services provide transparent kilowatt hour based billing & roaming
- Electric fleets need to cover charging services at the workplace
- Extenuating the impact of charging facilities on the grid for renewable energy

Elke Temme, Senior Vice President eMobility, innogy SE, Germany

17:35 End of conference day one



Get-together
At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers

III. Business Models and Economic Viability

09:00 Delivering Future Proof Energy Structure

- Role of flexible technologies in the future electricity system
- Operation and planning of future electricity infrastructure
- Improving current commercial and regulatory arrangements
- Increased risk and complexity of new smart technologies

Professor Goran Strbac, Chair of Electrical Energy Systems, Imperial College London, UK

Keynote

09:40 The Role of residential Flexibility in supporting the Decarbonisation of Power, Transport and Heat

- The challenges posed by the increasingly complex supply and demand on the power grid
- The role storage plays in supporting the grid
- Value of flexibility

Toby Ferenczi, Director of Strategy, Ovo Energy, UK

10:20 ☕ Networking & Coffee break

10:50 EVs as Grid Resources at Scale

- The majority of EV charging contexts involve flexibility
- Smart charging is a commercial reality now, V2G will become commercial
- Flexible aggregation, optimization software and partnership models are needed in order to unlock the value of flexibility in each market

Vincent Schachter, Senior Vice President Energy Services, eMotorWerks, an Enel Group Company, France

11:30 The Global Outlook for Plug-in Vehicles

- Regional and global view of EV adoption rates, following the adoption curve
- Push and Pull factors for electric vehicles and the battery development
- Subsidies and taxation and national targets
- Performance and convenience and TCO Parity

Viktor Irle, Market Analyst, EV-Volumes, Sweden

12:10 🍴 Lunch

13:10 From Amsterdam to the World: rEVolution

- How the Netherlands became the world leader in EV charging
- Matching charging infrastructure with user needs
- Mobilizing investment by creating dynamic EV charging markets
- Partnering to electrify the world

Björn Utgard, Director of New Markets, EV-Box, The Netherlands

IV. Emerging Technologies, Future Visions and Innovation

13:50 Wireless Charging Solution for electric Mobility

- The need of a reliable, convenient and automatic charging solution
- Safe and efficient charging solution used in any environment
- Introducing a charger for PHEV and BEV with 3.6 kW in 2019
- Solutions: Low power (3.6 kW) to high power (>200 kW) and static solutions (PHEV, BEV) to dynamic solutions (electric highway)

Christian Köbel, Product Manager PRIMOVE, Bombardier Primove GmbH, Germany

14:20 Comparte-moto Project, Innovation in E-mobility and valuable Takeaways for City Managers

- Charging e-scooters in municipal premises using renewables in Murcia
- Can we predict and be able to adapt to the new challenges are coming in the mobility sector?
- Innovation is crucial when it comes to encourage our citizens to shift to the electric vehicle
- Valuable takeaways for city managers for building an e-mobility strategy

Jaime Ruiz Huescar, E-mobility manager and Smart City project coordinator. Energy & Climate Change Agency - City of Murcia, Spain

15:00 ☕ Networking & Coffee break

15:30 Proving the Value of Vehicle-to-Grid

- How UK government support is dramatically accelerating the V2G agenda
- The value propositions for all parties
- Profiles of the diverse array of UK demonstrator projects in this area

Mark Thompson, Senior Innovation Lead, Energy Systems, Innovate, UK

16:10 A Glimpse into the Future: E-mobility in Norway

- The Norwegian electrical vehicle policy
 - Current status of EV-adoption
 - Key success factors for public charging services in an early mass market
- Benjamin Rinner**, International Business Development, Fortum Charge & Drive, Finland

16:50 China EV Charging Infrastructure and the EV Charging Operations and its Technology with V2G and its Role with Energy Network

- EV industry background in China
- EV Charging Technology development
- EV Charging Operation
- Smart micro-Grid and V2G in China

Rami Normaja, General manager, European market division, Star Charge, Finland

17:30 Conference chair's closing remarks

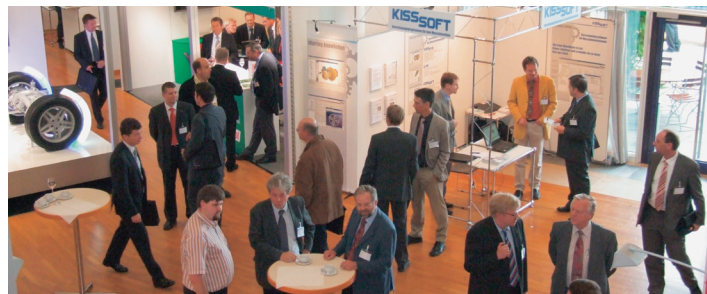
17:45 End of conference

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Martina Slominski

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Become a speaker at our international VDI Automotive and Energy Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: Charging Infrastructure, Batteries, Electromobility and Smart Cars, Challenges in Electric Vehicle Infrastructure Development and Deployment, Business Models Electromobility, Artificial Intelligence and Charging Infrastructure, Challenges of Charging Infrastructure in Cities.

Please submit your topic to:

Nina Heigl

Product Manager
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Registration

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Conference venue

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Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the Radisson Blu Hotel Amsterdam Airport. Please refer to "VDI Conference". For more hotels: www.vdi-wissensforum.de/hrs

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Register online!

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