

2nd International Conference

E-MOBILITY CHARGING INFRASTRUCTURE IN EUROPE 2020



Energy Meets Automotive: Towards an Integrated Europe-Wide Charging Landscape

Co-located Conference:
Energy Management & Battery Technology for EV PHEV

Profitable business models for a future-proof infrastructure roll-out • Vehicle to Grid • Vehicle to Home • Charging technologies

18 - 21 April 2016 | Berlin, Germany

With contributions from the following companies and institutions:

- Nissan Europe S.A.S.
- Renault S.A.
- Frost & Sullivan Limited
- Enel Group
- PSA Peugeot Citroën S.A.
- Fortum Markets Oy
- Sodeltel – Groupe EDF
- ESB E-Cars
- Volvo AB
- Avère-France
- City of Copenhagen
- Amsterdam electric
- BMW Group
- Porsche AG
- RWE AG
- VEIC
- inno2grid GmbH
- Fraunhofer ISE
- emodz
- Solaris Bus & Coach S.A.
- Mitsubishi Motor R&D Europe GmbH
- Project SLAM - RWTH Aachen University

Position yourself in an interdisciplinary and intersectoral market:

- **Financing models and business models:** Learn from those who invest and build a charging infrastructure
- **Urban Mobility and E-Car sharing:** Take part in the business of individual urban mobility
- **The state of the art in charging technology:** The key challenges now and the charging technologies of the future
- **Vehicle-to-Grid:** Profit from the potential of EVs as demand response service providers
- **Vehicle-to-Home:** Find out about the cost-saving potential of vehicle-to-home-solutions

Meet the following experts amongst others:



Thomas Orsini,
Director Business Development,
Renault S.A.



Ernesto Ciorra,
Head of Innovation and Sustainability, Member of the Board of Directors, **Enel Group**



Olivier Paturet,
General Manager Zero Emission Strategy,
Nissan Motor Corporation



Juliette Antoine-Simone,
Chief Executive Officer,
Sodeltel – EDF



Senan McGrath,
Chief Technology Officer,
ESB E-Cars



Class Bracklo,
Lead Innovation Field Electromobility, **BMW AG**

Workshops

Pre-Workshop A:
Electric vehicles and charging infrastructure: Assessment of potential and limits

Workshop B:
Lithium-ion battery control system design

Workshop C:
Customer-friendliness and charging security

Workshop D:
Electric commercial vehicle construction and implementation

Workshop E:
The role of utilities in transportation electrification

SAVE
up to € 500,- with our Early Birds if you book and pay by 12 February 2016!

E-MOBILITY CHARGING INFRASTRUCTURE IN EUROPE 2020

Dear Sir / Madam,

A profitable user-friendly charging infrastructure for EVs is missing in most parts of Europe. Yet it is urgently needed for the development of the European EV-market. We bring **all the relevant stakeholders from the energy, the automotive and the political** sector together to debate potential business models and models of cooperation in order to overcome the delay in infrastructure development. **Discuss and listen in order to proceed!**

I look forward to meeting you in Berlin!

Kind regards

Daniel Silic
Programme Director

Statement from our chairman:

“Although there are many conferences on e-mobility, this conference is relevant because it focuses on one of the great challenges for the European EV market and brings together all the important stakeholders. I expect a good amount of insights for everyone present at the conference.”

Senan McGrath, Chief Technology Officer, ESB E-Cars

What people said about the first e-mobility charging in Europe 2020

“The subjects covered by the conference are clearly aligned with today’s priorities in the world of EV charging infrastructure. A very good conference”

Olivier Paturet, General Manager, Zero Emission Strategy, Nissan Europe.

“Finally a conference that made us think outside the box and expand our horizons.”

Dr. Mark Steffen Walcher, CEO, Smartlab

Joint Session

Meet the EV battery and energy experts: How you benefit from the co-location

- Join an **all-encompassing event** on e-mobility to approach **strategic and technological chances and challenges** together
- Gain insights into new developments in battery technology and energy concepts for EVs/PHEVs
- Connect with **senior researchers, chief engineers and project managers** for electric powertrains from OEMs and renowned research institutes



Have a colleague, specialised in battery technology and energy management interested in joining the co-location? For group bookings and single tickets, please contact Sales Director Silva Certan-Mallmann under +49 (0)30 20 91 34 17 or silva.certan-mallmann@iqpc.de.

Pre-Conference Evening Workshop A | Monday, 18 April 2016 | 17:00 – 19:30

Electric Vehicles and Charging Infrastructure Technologies: Assessment of Potential and Limits

- Different types of charging infrastructure required for different types of electric vehicles
- Progress of companies compared in relation to market shares per type of electric vehicle category
- Overview of sales figures and global demand expectations
- Assessment of ways to promote the adoption of EVs by customers
- Why we need a charging infrastructure now



Olivier Paturet,
General Manager Zero Emission Strategy,
Nissan Motor Corporation



Thomas Orsini,
Director - Electric Vehicle Business Development,
Renault S.A.

08:30 Registration and welcome coffee



Who is Who

Discover who else is participating in the conference. The matchmaking picture wall will help you identify who you want to meet at the conference. In cooperation with **FUJIFILM**

09:10 **Opening remarks by the conference chairmen Thomas Orsini and Senan McGrath**

Latest insights into market potential, promising business models and financing schemes

09:30 **Private & public funding of EV quick charging infrastructure, the way forward**

Joint Session

- EV quick charging infrastructure: a brief status
- Efficiency of current co-financing schemes
- Best financing instruments going forward



Olivier Paturet, General Manager -Zero Emission Strategy, **Nissan Motor Corporation**

10:00 **The EV and HEV battery market**

Joint Session

- Analysis of the EV market world-wide to ascertain supply and demand
- View the battery market for identifying the value chain and cost analysis
- Forecasts and conclusions



Ananth Srinivasan, Consultant Automotive, **Frost & Sullivan Limited**

10:30 **Speed Networking**



Maximise your time at this event by participating in these fast paced 1-to-1 meetings. Get to know the other attendees and exchange your business cards. Have your business cards ready!

11:00 Refreshment break and networking opportunity

Innovation Impulse Session

11:30 **CharIN – Challenge of a global charging standard**

Joint Session

- Technology
- Standardization
- Organization
- The next level of charging



Class Bracklo, Lead Innovation Field Electromobility, **BMW AG**

12:00 **Destroying paradigms of a car:**

Joint Session

Using open innovation to become a platypus

Key Note

- What is a paradigm and how to destroy it?
 - What are the paradigms of a car?
 - What is Enel doing to create new paradigms in electric mobility?
 - How to become a platypus? Why open innovation is a must
- Ernesto Ciorra, Head of Innovation and Sustainability, Member of the Board of Directors, **Enel Group**
- Federico Caleno, Innovation Manager Global Infrastructure and Networks, **Enel Group**



12:30 Networking luncheon

14:00 **E-mobility and e-mobility charging in the Nordics**

- The differences between the three northern countries Norway, Sweden, Finland
- What works and what not
- The approach of Fortum towards a user-friendly charging network



Rami Syväri, Country Manager Finland and Program Manager International Expansion Charge & Drive, **Fortum Markets**

14:30 **Interactive Specialists Round Tables**



Round Table A: Smart charging and the benefits of EVs

- Lessons learned from recent pilot projects
- Current industry efforts underway
- The growing convergence of home energy management, charging and vehicles



Senan McGrath, Chief Technology Officer, **ESB E-Cars**

Round Table B: The biggest challenges in infrastructure development

- Challenging charging situations of a EV mainstream market
- Integrating charging into infrastructure planning and the urban streetscape



How to make charging user-friendly and 'standardized'
Thomas Orsini, Director - Electric Vehicle Business Development, **Renault S.A.**

Round Table C: E-Mobility beyond cars

- Explore how electric and connected vehicles are changing car sharing and transit services
- Public transport systems and busses
- Electric-assist bikes and urban mobility
- The infrastructure we need



Prof. Mats Alaküla, Senior Technical Advisor, Global Trucks Technology, **Volvo AB**

15:20 **Summary of the Round Tables**

15:30 Refreshment break and networking opportunity

16:00 **Transportation electrification as biggest opportunity for the utilities**

- Examining the success of original business assumptions to understand the key development areas for a successful infrastructure



Expanding utility engagement in the transportation sector
How to make money despite low energy prices
Karen Glitman, Director of Transportation Efficiency, **VEIC**

16:30 **How to simplify recharge. Interoperability and payment solutions for the breakthrough of E-Mobility**

- Flash survey : First feedbacks on user experience
- Interoperability & payment
- The agenda for the next years



Juliette Antoine-Simon, Chief Executive Officer, **Sodetrel – Groupe EDF**

Urban e-mobility and charging infrastructure development

17:00 **Scaling the benefits of electric mobility – An approach to overcome the chicken-and-egg-problem**

- The potential of electric mobility for cities
- eCar sharing as key strategic element



Parking management as complementary service
Dr. Carl Friedrich Eckhardt, Head of Center of Competence Urban Mobility, **BMW Group**

17:30 **Cities and their approaches to urban e-mobility**

- Charging in the city of Copenhagen
- Progress in French cities

Kåre Albrechtsen, Head of EV Secretariat,

The Capital Region of Denmark

Joseph Beretta, President,

Avère-France

18:20 Closing remarks by conference chairmen and end of day one

19:00 **Evening get-together**



Join us for a casual evening reception and dinner to let the first conference day come to an end over food and drinks in a casual atmosphere. This gives you plenty of time to network in a pleasant atmosphere and to discuss the day's results.

08:15 Registration and welcome coffee

08:45 **Opening remarks by the conference chairmen**

Vehicle-to-Grid, EVs as future resource for the grid

09:00 **Listen to three keynotes by charging and electric four vehicle grid integration experts followed by a round of quick-fire questions**

Key Notes

Joint Session

- Advance battery utilization through intelligent electric vehicle integration and battery management
- Grid Services and Resources
- Electric Vehicle Fleet Penetration Projections and Load Management
- State of the Art: Pilot Projects for Grid Integration of EVs
Mauricio Rojas, Systems Engineer Sustainable Infrastructures, **ino2grid GmbH**
Philippe Dupuy, Senior Project Manager EV / HEV Charging Infrastructure, **Renault S.A.**
Armin Gaul, Head of Asset Management, Processes and Tools, **RWE AG**
Peter Bach Andersen, Head of research EVLab, **Technical University of Denmark**

10:30 Coffee break and networking opportunity

Key charging solutions: Bidirectional and fast

11:00 **Bidirectional (V2X) charging for Mitsubishi vehicles**

Joint Session

- The charging system of the Mitsubishi EV/ PHEV vehicles – AC/DC charging
- The CHAdeMO charging interface as technical base for the bidirectional charging
- Projects in Japan and Europe – possible applications
- Technical status of the charge/discharge equipment
Uwe Likar, Senior Manager for Advanced Engineering Planning, **Mitsubishi Motor R&D Europe GmbH**

11:30 **The DC fast charging system in the electric vehicles from Porsche**

Joint Session

- The charging systems of the Porsche
- Technical principle turbo-charging system at Porsche
- Importance of the charging technology as an industry standard
- The future of fast charging
Volker Reber, Project Lead Charging, **Porsche AG**

12:00 Networking luncheon

Vehicle-to-Home, solutions, challenges, opportunities

13:30 **Listen to two keynotes by charging and electric vehicle grid integration experts followed by a round of quick-fire questions.**

Key Notes

- Reducing home electricity bills by shifting the peak load, and offering a ready source of emergency power
- The solutions of emodz and Fraunhofer.
- The utilities and vehicle-to-home: How to make it happen
Henk Meiborg, Programme director smart mobility, **emodz**
Dr. Robert Kohrs, Head of Group Smart Grid Technology, **Fraunhofer ISE**

Charging infrastructure projects: State of the art and future developments

14:30 **Business models for fast charging columns in metropol regions and key traffic junctions**

- The SLAM research project. It's scope and goal
- Key concepts behind Slam: Billings solutions, energy management, business models
- Key findings up to now
Prof. Dr. phil. Maximilian Schwalm, Head of automotive system review, **RWTH Aachen**

15:00 Refreshment break and networking opportunity

15:30 **The inductive highway in Great Britain**

- Technical principles of the implemented inductive charging system
- Importance of the Charging technology as potential industry standard
- The future of inductive charging
Director and Chief Highways Engineer, **Highways England**

Charging infrastructure and heavy duty vehicles

16:00 **Charging infrastructure requirements for public transport systems**

- Charging requirements for city buses, BRT and coach buses, city- and regional- distribution, inter-regional transport
- On/Off board requirements
- Need for automation
- The importance of electric roads - Inductive and conductive alternatives
Prof. Mats Alaküla, Senior Technical Advisor, **AB Volvo**, Professor at Lund University



16:30 **Fast charging for busses towards a future standard**

- Fast Charging Solutions: On the way to a future standard
- Can inductive charging be the answer?
- The solutions of Solaris Bus & Coach
Michal Pikula, Bus Development Director, **Solaris Bus & Coach S.A.**
Michal Sierszynski, Advanced Technologies Manager, **Solaris Bus & Coach S.A.**

17:00 Closing remarks by the chairmen and end of the conference

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"You can succeed on your own terms but you can't succeed alone"

Join our interactive workshops and benefit from in-depth sessions, hosted by selected industry experts. In our unique workshops, industry experts will share their expertise with a limited group of peers. Our workshop leaders provide in-depth knowledge and will actively foster open exchange and discussion to help you face challenges, discover solutions, and make decisions crucial to business excellence.

08:30 Registration and morning coffee

10:00 Refreshment break and networking opportunity

Workshop B | 09:00 – 12:00 Lithium-ion battery control system design

This workshop will give an overview over active and passive battery control system functions in order to increase battery life in EVs/PHEVs

- **Understanding Battery core functions – SOC, SOF and SOH**
- **Cell balancing control – Active vs passive balancing approach and their advantages and disadvantages.**
- **Battery thermal control strategy to minimize cell to cell temperature variation and increase battery life.**
- **Managing battery state control and faults.**

Vaneet Kumar, Chief Engineer Battery System,
GreatWall Motors Pvt. Ltd.

Workshop C | 09:00 – 12:00 Consumer-friendliness and charging security

Secure and customer-friendly charging will become more and more important as EVs become mainstream. What are security standards for public charging and where are we in urgent need of improvement? Inform yourself about:

- **Security standards for public charging**
- **What are the main challenges, how can we overcome them?**
- **Automatic charging as an alternative to inductive charging in terms of ease-of-use**

Philippe Dupuy, Senior Project Manager EV / HEV Charging Infrastructure,
Renault S.A.

12:00 Networking luncheon

14:30 Refreshment break and networking opportunity

Workshop D | 13:00 – 16:00 Electric commercial vehicle construction and implementation

The workshop will discuss different aspects of commercial vehicle electrification. Different electric vehicle solutions and battery systems will be presented and the respective battery, thermal and energy management implications will be analysed before discussing the commercial vehicle's requirements for the charging infrastructure. During this discussion aspects like legislation, procurement, businesses, environment and societal viewpoints will be included.

- **Opportunities in electrification of commercial vehicle systems**
- **Identifying hurdles for the transformation**
- **Measures to facilitate the take-up**

Mikko Pihlatie, Research team leader, D.Sc (Tech) for vehicles and electric powertrains, **VTT Technical Research Centre of Finland**

Workshop E | 13:00 – 16:00 The role of utilities in transportation electrification

The last four years have brought dramatic change in the electric vehicle development. There is growing evidence that utilities play a critical role in accelerating electric vehicle sales and that electric vehicles represent a tremendous opportunity for utilities and their ratepayers. As a result, an increasing number of utilities are getting more actively engaged in supporting and promoting the use of electricity as a transportation fuel, and regulatory treatment of this activity is rapidly evolving.

- **Reasons for utility engagement:**
- **Case studies and examples**
- **Needed regulatory changes**

Karen Glitman, Director of Transportation Efficiency, **VEIC**
Dr. Armin Gaul, Head of Asset Management, Processes and Tools, **RWE AG**
Dr. Jens Weinmann, Programme director market model e-mobility,
European School of Management and Technology (ESMT)

16:00 End of Interactive Workshop Day

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Energy Meets Automotive: Towards an Integrated European-Wide Charging Landscape

18 - 21 April 2016 | Berlin, Germany

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The delegate fee includes the following services:

- Access to the purchased conference packages
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- Conference documentation

Please indicate your choice of workshop

Preconference 18 April 2016

Pre-Workshop A

Electric vehicles and charging infrastructure: Assessment of potential and limits

Workshop-Day 21 April 2016

Workshop B | Workshop C | Workshop D | Workshop E

B | Lithium Ion battery control system design

C | Customer-friendliness and charging security

D | Electric commercial vehicle construction and implementation

E | The role of utilities in transportation electrification

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BOOKINGCODE

PDFW

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Berlin, Germany

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Please always quote the booking reference **IQPC-Berlin**. Hotel accommodation and travel costs are not included in the registration fee.

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