



PROGRAM

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TIMETABLE 1st E-MOBILITY INTEGRATION SYMPOSIUM

MONDAY, 23 OCTOBER 2017	
E-Mobility Symposium	
08:00 – 09:00	FOYER
	REGISTRATION
09:00 – 09:10	ROOM ALEXANDER 2
	OPENING: WELCOME AND INTRODUCTION
09:10 – 11:00	ROOM ALEXANDER 2
	SESSION 1: KEYNOTE SESSION
COFFEE BREAK (20MIN) & POSTER SESSION	
11:20 – 13:15	ROOM ALEXANDER 1
	SESSION 2A: EVs AND DISTRIBUTION GRIDS
11:20 – 13:15	ROOM ALEXANDER 2
	SESSION 2B: INTERNATIONAL EXPERIENCE
LUNCH (45 MIN)	
14:00 – 16:00	ROOM ALEXANDER 1
	SESSION 3A: EVs AND POWER SYSTEM ASPECTS
14:00 – 16:00	ROOM ALEXANDER 2
	SESSION 3B: EV CHARGING EXPERIENCE
COFFEE BREAK (15MIN) & POSTER SESSION	
16:15 – 17:40	ROOM ALEXANDER 1
	SESSION 4A: GRID CODE AND POWER QUALITY
16:15 – 17:40	ROOM ALEXANDER 2
	SESSION 4B: MODELLING
17:45-18:30	ROOM ALEXANDER 2
	SESSION 5 – PODIUM DISCUSSION AND CLOSURE
18:30	POSTER RECEPTION & NETWORKING

MONDAY, 23 OCTOBER 2017

08:00 – 09:00 Registration

09:00 – 09:10 Welcome

09:10 – 11:00	SESSION 1 – KEYNOTE SESSION
> Session Chair	T. Ackermann (Energynautics, Germany)
09:10 – 10:40	Presentations (18min. each)
	<ul style="list-style-type: none">• The Powernetworks and E-Mobility : Risks and Opportunities Susanne Nies (Entso-E, Belgium)• Transformation of the German Energy Sector with Increasing Market Penetration of Carbon-Free Car Technologies K. Goldammer, O. Arnhold, M. Fleck, F. Grüger, O. Hoch, B. Schachler (Reiner Lemoine Institute, Berlin, Germany) (Submission-ID Emob-142)• E-Mobility and its Future Effect on Demand and Flexibility: Chances and Challenges 2035 from a Transmission System Operator’s Perspective R. Bauer, T. Köbinger (50Hertz Transmission, Germany), G. Papaefthymiou, R. Kuwahata (Elia Grid International (egi), Germany) (Submission-ID Emob-190)• TBA S. Patzack (FGH Aachen, Germany) (Submission-ID Emob-xxx)• Ancillary Services by Sustainable Mobility S. Thies (Tennet, Netherlands) (Submission-ID Emob-xxx)
10:40 – 11:00	Discussions

11:00 – 11:20 COFFEE BREAK

11:20 – 13:15	SESSION 2A – EVs AND DISTRIBUTION GRIDS
> Session Chair	Name (Company, Country)
11:20 – 12:50	Presentations (18 min. each)
	<ul style="list-style-type: none">• Determination of the Integration and Influencing Potential of Rapid-Charging Systems for Electric Vehicles in Distribution Grids M. Kurth, M. Gödde, A. Schnettler (RWTH Aachen University, Germany), A. Probst (Netze BW, Stuttgart, Germany), D. Pieper (Netzgesellschaft Düsseldorf, Germany) (Submission-ID Emob-155)• Flash Recharging Tram Catenary-Free: Impact Analysis on Italian Distribution Networks C. Carlini, D. Moneta (RSE, Italy) (Submission-ID Emob-60)• Maximizing EV-Integration in Low-Voltage Grids Using the Universal Smart Energy Framework E. Coster, H. Fidder, M. Broekmans (Stedin, Netherlands) (Submission-ID Emob-74)• Peak Capping by Means of Buffer Storages in Charging Stations J. Wussow, B. Engel (Technical University Brunswick, Germany) (Submission-ID Emob-79)• Impact of EV Charging on Low-Voltage Grids and the Potential of Battery Storage as Temporary Utility During Grid Reinforcement L. Held, Lukas, M. Uhrig, M. R. Suriyah, T. Leibfried (Karlsruhe Institute of Technology, Germany), E. Junge, S. Lossau, M. Konermann (Netze BW, Germany) (Submission-ID Emob-139)
12:50– 13:15	Discussions

11:20 – 13:15	SESSION 2B – INTERNATIONAL EXPERIENCE
> Session Chair	Name (Company, Country)
11:20 – 13:08	Presentations (18 min. each)
	<ul style="list-style-type: none"> Regulatory Issues in the Development of Electromobility Services: Lesson Learned from the Italian Experience L. Lo Schiavo, D. Bonafede (Autorità per l'energia elettrica, il gas e il sistema idrico, Italy), S. Celaschi, F. Colzi (RSE, Italy) (Submission-ID Emob-54) Electric Mobility – The Challenges of Regulating the Charging Infrastructure During Early Market Development in Brazil A.C. Marques de Araujo, R.E. Hardinge-Bailey de Amorim (ANEEL - Brazilian Electricity Regulatory Agency, Brazil) (Submission-ID Emob-57) Effects of Heavy-Duty Vehicle Electrification on Infrastructure: The Case of Switzerland E. Çabukoglu, G. Georges, L. Küng, K. Boulouchos (ETH Zurich - Aerothermochemistry and Combustion Systems Laboratory (LAV), Switzerland) (Submission-ID Emob-110) Integration of Multifarious Electric Vehicle Charging Infrastructure Flexibility: Applications in India G. Ghatikar (Board of Governors and Working Group Chair, India Smart Grid Forum, Electric Power Research Institute, USA), A. Ahuja (Research Associate, India), R. Pillai (India Smart Grid Forum Global Smart Grid Federation, India) (Submission-ID Emob-222) The Impact of Electric Vehicles Deployment on Production Cost in a Caribbean Island Country E. Taibi (International Renewable Energy Agency (IRENA), Germany) (Submission-ID Emob-9) Charge-and-Share (CAS) Project -Electric Vehicle Demonstration on Sustainable Charge, Energy Mobility & Sharing- Y. Ota (Tokyo City University, Japan), T. Nakajima (Tokyo City University, Japan) (Submission-ID Emob-171)
13:08 – 13:15	Discussions

13:15 – 14:00 LUNCH BREAK

14:00 – 16:00	SESSION 3A – EVs AND POWER SYSTEM ASPECTS
> Session Chair	Name (Company, Country)
14:00 – 15:48	Presentations (18 min. each)
	<ul style="list-style-type: none"> Necessary Contribution to LFSM of Electric Vehicles to Ensure Frequency Stability in the ENTSO-E Continental Europe Synchronous Area G. Kerber (LEW Verteilnetz, Augsburg, Germany), J. Lehner (TransnetBW, Germany) (Submission-ID Emob-84) EV Charging Coordination to Secure Power Grid Stability B. Kirpes, S. Klingert (Universität Mannheim, Germany), M. Pérez Ortega (Gfi Informatique, Belgium), F. Gotzler, M. Achatz (E-WALD, Germany), H. de Meer (Universität Passau, Germany) (Submission-ID Emob-186) Grid Integration of Electric Vehicle Fleets Using a Traffic Light Concept M. Vasconcelos, M. Kurth, A. Schnettler (RWTH Aachen University, Germany) (Submission-ID Emob-82) Grid Impact of Electric Vehicles with Secondary Control Reserve Capability T. Degner, G. Arnold, R. Brandl, J. Dollichon, A. Scheidler (Fraunhofer IWES, Germany) (Submission-ID Emob-298) Leveraging the Benefits of Integrating and Interacting Electric Vehicles and Distributed Energy Resources M. Paschmann (University of Cologne ewi, Germany) (Submission-ID Emob-99) The Vision of E-Mobility in the Perspective of the Existing Power Infrastructure - Successfully Managing Conflicting Expectations K. Burges, M. Döring (Ecofys Germany, Germany) (Submission-ID Emob-284)
15:48 – 16:00	Discussions

14:00 – 16:00	SESSION 3B – EV CHARGING EXPERIENCE
> Session Chair	Name (Company, Country)
14:00 – 15:48	Presentations (18 min. each)
	<ul style="list-style-type: none"> • Impacts on Terminal Power Demands of Bus Depots in Hamburg Caused by Fully Electrified Bus Fleets Using Field Data M. Dietmannsberger (Hamburger Hochbahn AG,, Germany) (Submission-ID Emob-24) • Grid Compatible Flash Charging Technology V. Holz (ABB, Germany) (Submission-ID Emob-51) • Grid-Integration of High Power Charging Infrastructure J. Brombach (Innovation for ENERCON, Germany), F. Mayer, C. Strafiel (WRD, Germany), J. Winkler (ENERCON, Germany), A. Beekmann (WRD, Germany) (Submission-ID Emob-36) • EV Integration into the Power Grids by Using eRoaming and Smart Charging to Foster the Development of eMobility C. Hahn, P. Gumienny, M. Gagnebin (CEO, Germany) (Submission-ID Emob-273) • Assist EV Drivers to Act Smarter S. Klingert, C. Kacperski, F. Kutzner (University of Mannheim, Germany) (Submission-ID Emob-189) • Assessment of the Marginal Emission Factor Associated with Electric Vehicles Charging G. Pareschi, G. Georges, K. Boulouchos (ETH Zürich, Switzerland) (Submission-ID Emob-154)
15:48 – 16:00	Discussions

16:00 – 16:15 COFFEE BREAK

16:15 – 17:40	SESSION 4A – GRID CODE AND POWER QUALITY
> Session Chair	Name (Company, Country)
16:15 – 17:27	Presentations (18 min. each)
	<ul style="list-style-type: none"> • Compliance Assessment of Grid Connected EV Charging Stations J. Langstädtler (FGH, Germany), J. Döll (FGH, Germany) (Submission-ID Emob-47) • Technical Data Analysis and Power Grid Effects of Fast Charging Processes of Electric Vehicles G. Göhler, L. Effing (University of Stuttgart, Germany) (Submission-ID Emob-78) • Impact of Electric Vehicles on Power Quality in Central Charging Infrastructures F. Möller, S. Müller, J. Meyer (Technical University Dresden, Germany) (Submission-ID Emob-101) • Measurement and Calculation of Harmonics in the Grid when Charging Electric Vehicles J. Persson, Y. He, Ying, J. Wetterström (Vattenfall R&D, Sweden) (Submission-ID Emob-127)
17:27 – 17:40	Discussions

16:15 – 17:40	SESSION 4B – MODELLING
> Session Chair	Name (Company, Country)
16:15 – 17:27	Presentations (18 min. each)
	<ul style="list-style-type: none"> • Modelling e-Mobility in Sector Coupling Studies A.Kies, T. Brown, S. Schramm (Frankfurt Institute for Advanced Studies, Germany) (Submission-ID Emob-290) • Modelling and Simulation of a Public Transport System with Battery-Trolleybuses for an Efficient E-Mobility Integration D. Baumeister, M. Salih, P. Steinbusch, R. Uhlig, M. Zdrallek (Bergische Universität Wuppertal, Germany), S. Mour (SWS Netze Solingen, Germany), H. Ben Zid (Stadtwerke Solingen, Germany) (Submission-ID Emob-105) • Development of a Model for Power Grids by Using a Cellular Approach for an Optimum Integration of Electric Charging Infrastructure J. Vopava, T. Kienberger (Montanuniversitaet Leoben, Austria) (Submission-ID Emob-66) • Forecast Model for Electromobile Loads at Stuttgart Airport and Fair H. Triebke (Fraunhofer IAO, Germany), E. Siehler (Stuttgart Airport, Germany), E. Staebler (Landesmesse Stuttgart, Germany) (Submission-ID Emob-137)
17:27 – 17:40	Discussions

17:45 – 18:30	SESSION 5 – PODIUM DISCUSSION AND CLOSURE
> Session Chair	Name (Company, Country)
17:45 – 18:25	<ul style="list-style-type: none"> • Presentation 1 Name (Company, Country), Name (Company, Country), ... EMOB17-000 • Podium Discussion Panel TBA
18:25– 18:30	Closure

18:30 – 19:30 **Poster Reception & Networking**

POSTER PRESENTATIONS

- **NEFUSTA - the Electrical Fueling Station for e-Mobility AND Grid Support**
J. van der Burgt (DNV GL, Netherlands) ([Submission-ID Emob-23](#))
- **Spatial Markov Chain Model for Electric Vehicles Charging**
M. Shepero, J. Munkhammar (Uppsala University, Sweden) ([Submission-ID Emob-34](#))
- **The Improvement of Grid Integration for Electromobility through Innovative Business Models**
K. Rambow-Hoeschele (Bosch, Germany | Aalen University, Germany | Glasgow Caledonian University, United Kingdom), I. Walter (Aalen University, Germany | Carl Zeiss Meditec, Germany | Glasgow Caledonian University, United Kingdom), A. Nagl (Aalen University, Germany), D. Harrison, B. Wood (Glasgow Caledonian University, United Kingdom), K. Bozem (bozem | consulting associates | munich, Germany), K. Braun, P. Hoch, Peter (Aalen University, Germany) ([Submission-ID Emob-85](#))
- **Demands on the Electrical Grid Due to Electro Mobility in Hamburg**
M. Schumann, M.-F. Meyer (Helmut Schmidt University / University of the Federal Armed Forces Hamburg, Germany), M. Dietmannsberger (Hamburger Hochbahn, Germany), D. Schulz (Helmut Schmidt University / University of the Federal Armed Forces Hamburg, Germany) ([Submission-ID Emob-102](#))
- **Sector Coupling: Optimized Scheduling of Electric Vehicle Charging and Heat Production in Residential Districts**
M. Zimmerlin, M. Wilferth, T. Leibfried (Karlsruhe Institute of Technology, Germany) ([Submission-ID Emob-107](#))
- **Simultaneity Analyses on Power Generation by Renewables and Consumption Regimes of Electrified Public Bus Transport under Various Charging Strategies**
P. Dicke, M. Pruckner (Friedrich Alexander University Erlangen-Nürnberg (FAU), Germany) ([Submission-ID Emob-111](#))
- **HIL Test of Power System Frequency Control by Electric Vehicles**
H. Toda, Y. Ota, T. Nakajima (Tokyo City University, Japan), K.-i. Kawabe (Tokyo Institute of Technology, Japan), A. Yokoyama (University of Tokyo, Japan) ([Submission-ID Emob-167](#))
- **Exploring Electric Vehicle Participation in the Icelandic Balancing Market as Virtual Power Plant**
F. Steingrube (Reykjavik University, Iceland), S. Perkin (Reykjavik University, Iceland | Landsnet, Iceland), E. Lazarczyk, H. Stefánsson (Reykjavik University, Iceland) ([Submission-ID Emob-246](#))