



PRELIMINARY AGENDA AS OF 2 NOVEMBER 2020

Important: This preliminary program is subject to changes. It is strongly recommended to check back regularly.

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TIMETABLE 4TH E-MOBILITY INTEGRATION SYMPOSIUM

TUESDAY, 3 NOVEMBER 2020	
E-Mobility Power System Integration Symposium	
09:00 – 09:15	OPENING: WELCOME AND INTRODUCTION
09:15 – 11:00	SESSION 1: KEYNOTE SESSION
	<i>BREAK (15 MIN)</i>
11:15 – 12:35	SESSION 2: DISTRIBUTION GRID ASPECTS
	<i>BREAK (55 MIN)</i>
13:30 – 15:10	SESSION 3: MODELLING ASPECTS
	<i>BREAK (20MIN)</i>
15:30 – 17:10	SESSION 4: CHARGING INFRASTRUCTURE PLANNING
17:15-18:00	SESSION 5 – PODIUM DISCUSSION & CLOSURE
18:00-19:00	NETWORKING – BREAKOUT ROOMS

TUESDAY, 3 NOVEMBER 2020

All times in the session tables show Central European Times (CET), the ruby stripes above each session slot show the starting times of the sessions below in additional time zones.

03:00 New York // 05:00 Rio de Janeiro // 08:00 London // 13:30 New Delhi // 15:00 Jakarta // 16:00 Peking // 17:00 Tokio

09:00 – 09:15 Welcome

09:15 – 11:00	SESSION 1 – KEYNOTE SESSION
> Session Chair	Thomas Ackermann (Energynautics, Germany)
09:15 – 10:35	Presentations (20min. each)
	<ul style="list-style-type: none">• Integration of EVs & Batteries in the Grid - a German Perspective M. Puchta, B. Ernst (Fraunhofer IEE, Germany) (Submission-ID EMOB20-160)• Could EVs Threaten Power Systems and How we Can Fix it? A. Oudalov (Hitachi-Powergrids, Switzerland) (Submission-ID Emob-155)• Implication of Vehicle Electrification on U.S. Power Sector Transitions M. Muratori (National Renewable Energy Laboratory – NREL, United States) (Submission-ID EMOB20-13)• The Impacts of EV Charging Pattern Optimisation to Realise Renewable Energy-Based System Y. Yasuda (Kyoto University, Japan), H. Hamasaki (Deloitte Tohmatsu Consulting, Japan) (Submission-ID EMOB20-12)
10:35 – 11:00	Discussions

11:00 – 11:15 BREAK

05:15 New York // 07:15 Rio de Janeiro // 10:15 London // 15:45 New Delhi // 17:15 Jakarta // 18:15 Peking // 19:15 Tokio

11:15 – 12:35	SESSION 2: DISTRIBUTION GRID ASPECTS
> Session Chair	Eckehard Tröster (Energynautics, Germany)
11:15 – 12:23	Presentations (17 min. each)
	<ul style="list-style-type: none">• Infrastructure for Charging Electric Vehicles and Renewables – How Much Do We Need to Invest? K. Burges (RE-xpertise Woltersdorf, Germany), K. Joerling, K. Steinbacher, J. Knapp (Guidehouse Berlin, Germany), M. Tretschok, M. Greve (ef-ruhr Dortmund, Germany) (Submission-ID EMOB20-62)• Mitigating the Impact of Fast Charging on Distribution Grids Using Vehicle-to-Vehicle Power Transfer: a Paris Case Study Y. Sehim (Institut Vedecom University of Lille, France), E. Suomalainen (Institut Vedecom, France), K. Almaksour (University of Lille, France), J. Sakly (Institut Vedecom, France), B. Robyns (University of Lille, France) (Submission-ID EMOB20-74)• NOVA Measures in Suburban Low Voltage Grids with an Inhomogeneous Distribution of Electric Vehicles H. Wagner, J. Wussow, B. Engel (TU Braunschweig - elenia, Germany) (Submission-ID EMOB20-10)• Measurement of Supraharmonic Emissions from Wind Turbines and Electric Vehicles in Power Systems According to IEC and Analysis with Matlab R. Brown (DNV GL, Germany), A. Hassan (Hochschule Flensburg, Germany) (Submission-ID EMOB20-33)
12:23– 12:35	Discussions

12:35 – 13:30 BREAK

07:30 New York // 09:30 Rio de Janeiro // 12:30 London // 18:00 New Delhi // 19:30 Jakarta // 20:30 Peking // 21:30 Tokio

13:30 – 15:10 **SESSION 3: MODELLING ASPECTS**
> Session Chair **Peter-Philipp Schierhorn (Energynautics, Germany)**

13:30 – 14:50 **Presentations (20 min. each)**

- **Battery Energy Storage System Optimal Sizing in a Battery Electric Vehicle Fast Charging Infrastructure**
P. Félix (Instituto Superior de Engenharia do Porto (ISEP), Portugal | Efacec, Portugal), **L. Roque** (Instituto Superior de Engenharia do Porto – ISEP, Portugal), **I. Miranda** (Efacec, Portugal), **A. Gomes** (Instituto Superior de Engenharia do Porto – ISEP, Portugal) (Submission-ID EMOB20-49)
- **Hosting Capacity Assessment of Electric Vehicles, Heat Pumps and Rooftop PV for the City of Worms, Germany**
L. Hülsmann, **S. Hempel**, **E. Tröster** (Energynautics, Germany), **M. Koch**, **U. Ohl** (EWR Netz GmbH, Germany) (Submission-ID EMOB20-7)
- **Charging Solution Assets Operational Performance Modelling - a Bayesian Approach**
T. J. T. van der Wardt, **L. A. Hurtado** (Allego, Netherlands) (Submission-ID Emob-149)
- **Substation Spacing Considerations for DC Overhead Line Truck Systems**
M. Hof (Fraunhofer IEE, Germany) (Submission-ID EMOB20-9)

14:50 – 15:10 **Discussions**

15:10 – 15:30 BREAK

09:30 New York // 11:30 Rio de Janeiro // 14:30 London // 20:00 New Delhi // 21:30 Jakarta // 22:30 Peking // 23:30 Tokio

15:30 – 17:10 **SESSION 4: CHARGING INFRASTRUCTURE PLANNING**
> Session Chair **Thorsten Schlößer (Energynautics, Germany)**

15:30 – 16:50 **Presentations (20 min. each)**

- **Promising Practices for Smart Charging**
A. Jahn (The Regulatory Assistance Project, Germany) (Submission-ID EMOB20-150)
- **Car Usage in the Fleet of a Regional Council and Need for Intelligent Charging Infrastructure**
T. Schneider, **S. Sigle** (German Aerospace Center – DLR, Germany), **D. Huschenhöfer** (Center for Solar Energy and Hydrogen Research Baden-Württemberg – ZSW, Germany) (Submission-ID EMOB20-121)
- **Grid integration: Public Transport Electrification vs. Private Electric Vehicle Charging**
T. Röpcke, **N. Pieniak** (Reiner Lemoine Institut gGmbH, Germany) (Submission-ID EMOB20-55)
- **A Smart Charging Management Method for Electric Vehicles Based on the Communication Links through the Electrical Grid**
S. Darvish, **D. Schulz** (Helmut Schmidt University, Germany) (Submission-ID Emob-148)

16:50 – 17:10 **Discussions**

17:15– 18:00 SESSION 5 – PODIUM DISCUSSION / CLOSING SESSION

> Session Chair Karsten Burges (RE-xpertise Berlin, Germany)

How to adequately deal with the many uncertainties while effectively stimulating (market) uptake of emobility?

Panelists:

- Matteo Muratori (NREL, USA)
- Claudia Rathfux (Stromnetz Berlin, Germany)
- Andreas Jahn (The Regulatory Assistance Project, Germany)
- Frank Müller (BEM – German Federal Association for eMobility, Germany)
- Thorsten Schlößer (Energynautics, Germany)

17:55– 18:00 Closure

18:00 – 19:00 Networking – Breakout Rooms

1. DISTRIBUTION GRID ASPECTS

2. CHARGING INFRASTRUCTURE