

FINAL AGENDA

SPONSORS





	MONDAY, 10 OCT	OBER 2022
	E-Mobility Power System Inte	egration Symposium
00:0	FOYER	2.0
08:00 - 09:00	REGISTRA	ATION
	ROOM	2.1
09:20 - 11:00 09:00 - 09:20	OPENI WELCOM INTRODU	E AND
00:1	ROOM	2.1
09:20 – 11	SESSIO KEYNOTE S	
	GROUP PHOTO COFF	EE BREAK (30 MIN)
:15	ROOM 2.1	ROOM 2.2
11:30 - 13:15	SESSION 2A: SMART CHARGING I	SESSION 2B: MODELLING ASPECTS
	LUNCH (6	0 MIN)
:30	ROOM 2.1	ROOM 2.2
14:15 – 15:30	SESSION 3A: SMART CHARGING II	SESSION 3B: CHARGING INFRASTRUCTURE
	COFFEE BREA	K (30 MIN)
20	ROOM 2.1	ROOM 2.2
16:00 - 17:20	SESSION 4A: DISTRIBUTION GRID ISSUES	SESSION 4B: MODELLING OF E-MOBILITY ASPECTS
:15	ROOM	2.1
17:30 – 18:15	SESSIO PODIUM DISCUSSI	
18:30	18:3 NETWORKIN (FOYE	IG EVENT

MONDAY, 10 OCTOBER 2022

08:00 – 09:00 Registration

All times in the session tables show Central European Summer Times (CEST), the orange stripes show the starting times of the sessions below in additional time zones.

03:00 New York 04:00 Rio de Janeiro 08:00 London 12:30 New Delhi 14:00 Jakarta 15:00 Beijing 16:00 Tokyo 18:00 Sydney	
09:00 – 09:20 Welcome	
09:20 – 11:00 SESSION 1: KEYNOTE SESSION	
03:20 New York 04:20 Rio de Janeiro 08:20 London 12:50 New Delhi 14:20 Jakarta 15:20 Beijing 16:20 Tokyo 18:20 Sydney	
> Session Chair Thomas Ackermann (Energynautics, Germany) Mart van der Meijden (TenneT TSO, Netherlands)	
09:20 – 10:40 Presentations (20 min. each)	
• Tennet's Perspective A. Jonker (Tennet, Netherlands)	
• EV Charging Infrastructure and Grid Integration: International Perspectives and the Role of Public Authorities J. Warichet (IEA, France)	
From Small Idea to an Important Trusted European Crowd Balancing Platform R. Kerkmeester (CEO Equigy, Netherlands)	
 Lightyear One R. de Jongh, G. Nynke Noteboom (Lightyear One, Netherlands) 	
10:40 – 11:00 Discussions	

11:00 – 11:30 COFFEE BREAK

11:30 - 13:15	SESSION 2A: SMART CHARGING I
05:30 New Y	ork 06:30 Rio de Janeiro 10:30 London 15:00 New Delhi 16:30 Jakarta 17:30 Beijing 18:30 Tokyo 20:30 Sydney
> Session Chai	r Eckehard Tröster (Energynautics, Germany
11:30 - 12:50	Presentations (20 min. each)
R. Ott (Subm	Study on Energy Management and Charging Monitoring of Battery Electric Vehicles in Parking Garages A, M. Brennenstuhl, E. Duminil, D. Uckelmann, B. Schröter (Stuttgart University of Applied Sciences, Germany) ission-ID EMOB22-17) ning Energy Storage with EV Fleet Charging
A. Rut	gers (ChargeSim BV, Netherlands) (Submission-ID EMOB22-73)
Syster	ng Charging Hubs for Battery Electric Vehicles and Trucks on the German Motorway Network – a Distribution n Perspective ges (RE-xpertise, Germany), F. Probst, S. Kippelt (ef.Ruhr GmbH, Germany) (Submission-ID EMOB22-121)
	DN Box – Secure EV Charging Using the "FNN Steuerbox" sendorf, R. Al Sayyed, P. Henzel, T. Schlösser (Energynautics, Germany) (Submission-ID EMOB22-29)
12:50-13:15	Discussions

11:30 - 2	13:15	SESSION 2B: MODELLING ASPECTS
05:30 N	New York	06:30 Rio de Janeiro 10:30 London 15:00 New Delhi 16:30 Jakarta 17:30 Beijing 18:30 Tokyo 20:30 Sydney
> Session	n Chair	Thorsten Schlößer (Energynautics, Germany)
11:30 – 1	12:50	Presentations (20 min. each)
A G	A. Osterm	of the Peak Shaving Potential of Bidirectionally Chargeable Electric Vehicles in a Field Trial nann (FfE – Research Institute for Energy Economics and Industry TUM – Technical University of Munich,), V. Engwerth, K. Sommer (FfE – Research Institute for Energy Economics and Industry, Germany) (Submission-ID 150)
L H S G (0	.ower Sa: I. Wagne 5. Fayed (Germany) OFFIS Ins	ation-Based Analysis of the Grid Capacity for Electric Vehicles in Districts: The Case of "Am Ölper Berge" in kony er (TU Brunswick – elenia, Germany), F. Peñaherrera V. (OFFIS Institute for Information Technology, Germany), University of Applied Sciences Emden/Leer, Germany), O. Werth, S. Eckhoff (Leibniz University Hannover,), B. Engel (TU Brunswick – elenia, Germany), M. H. Breitner (Leibniz University Hannover, Germany), S. Lehnhoff titute for Information Technology, Germany), J. Rolink (University of Applied Sciences Emden/Leer, Germany) on-ID EMOB22-117)
A	A. Osterm	of the Intraday Use Case in the Field Trial of the Bidirectional Charging Management Project nann (FfE – Research Institute for Energy Economics and Industry TUM – Technical University of Munich), /. Regener (FfE – Research Institute for Energy Economics and Industry, Germany) (Submission-ID EMOB22-27)
N G	N. Wulff (German A	c <mark>ion of Charging Pattern Accuracy by a Two-Level Validation Approach for the Case of Germany</mark> DLR – German Aerospace Center, Germany), N. Refa (ElaadNL, Netherlands), F. Miorelli, HC. Gils (DLR – Nerospace Center, Germany), P. Jochem (DLR – German Aerospace Center KIT – Karlsruhe Institute of gy, Germany) (Submission-ID EMOB22-94)
12:50-1	.3:15	Discussions

13:15 - 14:15 LUNCH BREAK

14::	15 – 15:30	SESSION 3A: SMART CHARGING II
08:1	5 New York	09:15 Rio de Janeiro 13:15 London 17:45 New Delhi 19:15 Jakarta 20:15 Beijing 21:15 Tokyo 23:15 Sydney
> Sess	ion Chair	Leonard Hülsmann (Energynautics, Germany)
14:1	L5 – 15:15	Presentations (15 min. each)
•	M. Nieradzi	gy for the Conceptual Design of Application-Specific and Requirement-Oriented Charging Robots ik, P. Driesch, T. Bruckmann (University of Duisburg-Essen, Germany), F. Przioda, R. Hindera (BMW Group, D. Schramm (University of Duisburg-Essen, Germany) (Submission-ID EMOB22-108)
•		ribility Potential of EV Fleets through Grid-Serving Charging Strategies . C. Daam, J. Gemassmer (Reiner Lemoine Institut, Germany) <mark>(Submission-ID EMOB22-54)</mark>
•		t-3 on EV Charging Infrastructure and its Grid Integration GIZ, Germany)
•		r <mark>ge Easy Bikes in Bangladesh the Smart Way</mark> , E. Tröster (Energynautics, Germany), M. Rohman (WZPDCL, Bangladesh), <mark>(Submission-ID EMOB22-xxx)</mark>

15:15 – 15:30 Discussions

14:15 – 15:30	SESSION 3B: CHARGING INFRASTRUCTURE
08:15 New York (09:15 Rio de Janeiro 13:15 London 17:45 New Delhi 19:15 Jakarta 20:15 Beijing 21:15 Tokyo 23:15 Sydney
> Session Chair	Thomas Ackermann (Energynautics, Germany)
14:15 – 15:15	Presentations (20 min. each)

- Electric Road Systems (ERS) Presentation of eHighway Technology Using the Example of eHighway Hessen I. Rudgartser (Federal Autobahn GmbH, Germany)
- Analysis of System Efficiency Losses and their Financial Effects for a DC-Coupled PV-based EV Charging Station
 A. Starosta, P. Jhaveri, N. Munzke, M. Hiller (Karlsruhe Institute of Technology KIT, Germany) (Submission-ID EMOB22-57)
- Short-Term Prediction of Electric Vehicle Charging Station Availability Using Cascaded Machine Learning Models
 C. Hecht (RWTH Aachen University | Juelich Aachen Research Alliance, JARA-Energy, Germany), R. Aghsaee, F. Schwinger (RWTH Aachen University, Germany), J. Figgener (RWTH Aachen University | Juelich Aachen Research Alliance, JARA-Energy, Germany), M. Jarke (RWTH Aachen University | Fraunhofer FIT, Germany), D. U. Sauer (RWTH Aachen University, Germany | Juelich Aachen Research Alliance, JARA-Energy, Germany | Juelich Aachen Research Alliance, JARA-Energy, Germany | Helmholtz Institute Muenster, Germany) (Submission-ID EMOB22-55)

15:15 – 15:30 Discussions

15:30 - 16:00 COFFEE BREAK

16:00 - 17:20	SESSION 4A: DISTRIBUTION GRID ISSUES
10:00 New York	11:00 Rio de Janeiro 15:00 London 19:30 New Delhi 21:00 Jakarta 22:00 Beijing 23:00 Tokyo 01:00 Sydney
> Session Chair	Bernd Engel (TU Brunswick – elenia SMA, Germany)
16:00 - 17:00	Presentations (20 min. each)
M. Müller,	 bw-Voltage Grid Overloads Through Curative Grid Operator Intervention with Focus on Electric Vehicles S. Rodler (FfE – Research Institute for Energy Economics and Industry TUM – Technical University of Munich, N. Jooß (FfE – Research Institute for Energy Economics and Industry, Germany) (Submission-ID EMOB22-7)
 Monitoring of Low-Voltage Grids Using Artificial Neural Networks and Its Field Test Application based on the beeDIP- Platform 	
B. Requard	ersity of Kassel, Germany), J. Ringelstein (Fraunhofer IEE, Germany), M. Ernst (University of Kassel, Germany), t (Fraunhofer IEE, Germany), E. Zauner, K. Baumbusch (Thuega, Germany), S. Wende-von Berg, M. Braun of Kassel Fraunhofer IEE, Germany) <mark>(Submission-ID EMOB22-49)</mark>

Assessing the Energy Equity Benefits of Mobile Energy Storage Solutions
 J. Kerby, A. Kumar Bharati, B. Tarekegne (Pacific Northwest National Laboratory, USA) (Submission-ID EMOB22-145)

17:00 – 17:20 Discussions

16:0	0 - 17:20	SESSION 4B: MODELLING OF E-MOBILITY ASPECTS
10:00	0 New York 1	1:00 Rio de Janeiro 15:00 London 19:30 New Delhi 21:00 Jakarta 22:00 Beijing 23:00 Tokyo 01:00 Sydney
> Sessi	on Chair	Eckehard Tröster (Energynautics, Germany)
16:0	0 - 17:00	Presentations (20 min. each)
•		Different Prices Models and Their Impact on the Charging Times of Battery Electric Vehicles -L. Di Modica, J. Wussow, B. Engel (TU Brunswick – elenia, Germany) <mark>(Submission-ID EMOB22-19)</mark>
•	Multiple Sta	cle Charging Journey Architecture Model to Obtain a Method for Analyzing Charging Scenarios Within keholders and Use Cases. n (PION Technology, Germany), B. Engel (TU Brunswick, Germany) <mark>(Submission-ID EMOB22-66)</mark>
•	 Fuel Cell Electrical Vehicles as Mobile Coupled Heat and Power Backup-Plant in Neighbourhoods with Low-Energy Standards Buildings T. Tiedemann, M. Kroener, M. Vehse, C. Agert (DLR – German Aerospace Center, Germany) (Submission-ID EMOB22-153) 	
17:0	0 - 17:20	Discussions

17:30 - 18:15SESSION 5: CLOSING SESSION11:30 New York | 12:30 Rio de Janeiro | 16:30 London | 21:00 New Delhi | 22:30 Jakarta | 23:30 Beijing | 00:30 Tokyo | 02:30 Sydney> Session ChairThorsten Schlößer (Energynautics, Germany)17:30 - 18:10

• Overcoming Current Challenges in Charging Station Rollout to Meet Rising Mobility Demand

PANELISTS:

- Gautham Ram Chandra Mouli (TU Delft, Netherlands)
- Stephen Dräxler (GIZ, Germany)
- Andrew Rutgers (ChargeSim, Netherlands)
- Karsten Burges (RE-xpertise, Germany)

18:10-18:15 Closure

18:30 Networking Event

POSTER PRESENTATIONS

 Blockchain-Based Logging of Bidirectional EV Charging Data
 M. Hinterstocker, L. Wasmeier, P. Dossow (FfE – Research Institute for Energy Economics and Industry, Germany) (Submission-ID EMOB22-103)