AGENDA AS OF 27 SEPTEMBER 2026

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

MONDAY, 28 SEPTEMBER 2026

09:00 Start Registration

SYMPOSIUM WELCOME & INTRODUCTION
13:30 – 13:55 | Thomas Ackermann (Energynautics, Germany)

SESSION 1 – KEYNOTE SESSION
13:55 – 15:35 | Session Chair: Eckehard Tröster (Energynautics, Germany)

13:55 – 15:15 Presentations (20 min. each)

- **Portugal's E-Mobility Transition: Infrastructure, Intelligence and Grid Integration**
  Alexandre Lucas (INESC TEC, Portugal) (Submission-ID EMOB26-409)
- **FlexC: Facilitating EV Charging in Collective Buildings with Flexible Connections**
  Eduardo Francisco (E-REDES, Portugal) (Submission-ID EMOB26-374)
- **From Charging to Flexibility: Lessons learned from real world V2X pilots**
  Samuel Matias (EDP, Portugal) (Submission-ID EMOB26-412)
- **Future Conformity Assessment Schemes for EV and EVSE under the Emerging European Network Codes**
  Bernhard Schowe-von der Brelie (FGH Research Association – FGH e.V., Germany), M. Martinez Lavin (UL Solution, Spain), F. Benedict (EU DSO Entity / Stedin Group, Netherlands), M. Kay (EU DSO Entity / P2 Analysis, United Kingdom), J. Treichel (Porsche, Germany) (Submission-ID EMOB26-138)

15:15 – 15:35 Discussions

15:35 – 16:05 COFFEE BREAK | GROUP PHOTO

SESSION 2A –DISTRIBUTION GRID ASPECTS

16:05 – 18:45 | Session Chair: Felix Heider (Shell Global Solutions, Germany)

16:05 – 18:25 **Presentations (20 min. each)**

- **Device-Agnostic Control for Time-Varying Electric Vehicle Induced Phase Unbalance in Low-Voltage Networks: A UK Case Study**
  Z. Musa Sarkin Adar, G. Todeschini (King's College London, United Kingdom) (Submission-ID EMOB26-112)
- **Managing Rising EV-Charging with Grid-Fee Modulation or Load Reduction: A Co-Simulation Approach of Hamburg**
  S. Hu, A. Stadler, D. Schulz (Helmut Schmidt University/University of the Federal Armed Forces, Germany) (Submission-ID EMOB26-328)
- **Impact of Peak Pricing on Renewable Energy Communities with hHgh EV and PV Penetration in Denmark**
  M. Secchi, J. M. Mittag (Technical University of Denmark – DTU, Denmark) (Submission-ID EMOB26-028)
- **Harmonic Current Unbalance in Mixed Single-Phase and Three-Phase EV Smart Charging**
  S. Bayram, M. Cameron, L. Hunter, S. Galloway (University of Strathclyde, United Kingdom) (Submission-ID EMOB26-136)
- **Assessment of Hybrid Battery Energy Storage Systems for Ancillary Services in Fast EV Charging Stations in Norway**
  L. Araujo, R. A. Barrera-Cárdenas, D. dos Santos Mota (SINTEF Energy Research, Norway) (Submission-ID EMOB26-200)
- **Automated Multi-Period Grid Expansion Planning for a Medium Voltage Grid Area Using Genetic Algorithms**
  R. Helmschrott (Technische Hochschule Augsburg – University of Applied Sciences, Germany), L. Bittner, L. Grossi (SWM Infrastruktur GmbH & Co.KG., Germany), M. Finkel (Technische Hochschule Augsburg – University of Applied Sciences, Germany) (Submission-ID EMOB26-081)
- **How Charging Parameters and User Participation Shape V2G Value: A Scenario-Based Analysis of Peak Load Reduction**
  M. von Bonin, T. Gließmann, J. Ulffers, D. Horst, J. Cheng (Fraunhofer IEE, Germany) (Submission-ID EMOB26-107)

18:25 – 18:45 **Discussions**

SESSION 2B – COUNTRY EXPERIENCE

16:05 – 18:30 | Session Chair: Elisabetta Perotti (Chalmers University of Technology, Sweden)

16:05 – 18:05 **Presentations (20 min. each)**

- **Redispatch 3.0 – Integrating Electric Vehicle Flexibility into TSO Redispatch Processes**
  S. Meisenbacher, J. Hönen, N. Klempp (TransnetBW, Germany) (Submission-ID EMOB26-101)
- **Mitigating Synchronization Effects in Price-Aware EV Charging Using Equitable, Communication-Free V-P Control**
  P. Zunino, M. Marinelli (Technical University of Denmark – DTU, Denmark), B. Erel (TotalEnergies, France), J. Engelhardt (Technical University of Denmark – DTU, Denmark) (Submission-ID EMOB26-067)
- **Optimal Electrification Dynamics for Public Fleet: Balancing TCO, Infrastructure Sizing, and Battery Waste Management Processes In Aruba**
  L. Rakočević, E. Tröster (Energynautics, Germany) (Submission-ID EMOB26-411)
- **Micro Substations**
  T. Santos Guimarães (Siemens Energy, Germany) (Submission-ID EMOB26-272)
- **Energy Analysis of Pumabús Routes for Optimization of an Electric Fleet in Ciudad Universitaria**
  G. Balderas Huertero, S. Moreno Caminos, E. A. Salvador Sánchez, N. Zaldo Torres, J. Hernández García, A. Palacio Pérez, S. Briceño Viloria (National Autonomous University of Mexico – UNAM, Mexico) (Submission-ID EMOB26-300)
- **Project presentation: AHEAD project (https://horizon-ahead.eu/)**
  H. Correia (Electricidade da Madeira – EEM, Portugal) (Submission-ID EMOB26-407)

18:05 – 18:30 **Discussions**

SESSION 2C – CHARGING ASPECTS

16:05 – 18:30 | Session Chair: Sebastian Schreck (Siemens, Germany)

16:05 – 18:05 **Presentations (20 min. each)**

- **Three-Stage Validation Methodology for ISO 15118-20 Interoperability and AFIR Readiness**
  A. Telegin (Keysight Technologies, Germany) (Submission-ID EMOB26-008)
- **Characterising User Behaviour and Flexibility Potential of Smart EV Charging in Workplace**
  M. Roblot, X. Cao, K. Laust Pedersen, F. Pastorelli, P. Zunino, L. Winschermann, M. Marinelli (Technical University of Denmark – DTU, Denmark) (Submission-ID EMOB26-094)
- **Cost Reduction through the Utilization of Electric Vehicle Flexibility Using the Example of Employee Charging**
  A. Hoppert, S. Flemming, J. Pemsel, D. E. Planert (Fraunhofer IOSB-AST, Germany) (Submission-ID EMOB26-024)
- **Assessment of Retired E-Ferry Batteries for Fast-Charging Buffer Applications**
  H. Andersen, K. Qian (University of Southern Denmark, Denmark), F. Rehman (University of Southern Denmark, Denmark | University of L'Aquila, Italy), A. Manoharan, T. Ebel (University of Southern Denmark, Denmark) (Submission-ID EMOB26-006)
- **Influence of Battery Emulation on (High-Power) DC-Charger Testing Behaviour**
  A. Stadler, M. Machner, F. Grumm, M. Plenz, D. Schulz (Helmut Schmidt University/University of the Federal Armed Forces, Germany) (Submission-ID EMOB26-362)
- **Smart Charging Hubs: Enabling the Future of Energy and Mobility**
  P. Rodrigues (i-charging, Portugal) (Submission-ID EMOB26-396)

18:05 – 18:30 **Discussions**

18:30 NETWORKING EVENT / RECEPTION

FOYER

TUESDAY, 29 SEPTEMBER 2026

SESSION 3A – CHARGING INFRASTRUCTURE PLANNING FOR MEGA WATT

08:30 – 10:10 | Session Chair: Lewis Hunter (University of Strathclyde, United Kingdom)

08:30 – 09:50 **Presentations (20 min. each)**

- **Analysis of Different Booking Strategies for Public Fast-Charging of Heavy-Duty Vehicles**
  K. Schlüter, M. Borstad Lilledahl, J. R. A. Klemets (SINTEF Energy Research AS, Norway) (Submission-ID EMOB26-360)
- **Linking Fleet Operations to Grid Requirements: An Early-Stage Framework for Electric Truck Charging Depot Planning to Minimize Grid Connection Capacity**
  D. E. Menchaca Santos, P. B. Andersen, M. Marinelli, F. Pastorelli (Technical University of Denmark – DTU, Denmark) (Submission-ID EMOB26-155)
- **Real-World Operation of Public Megawatt Charging for Heavy-Duty Trucks**
  F. Heider, D. H. Liebig (Shell Global Solutions Deutschland, Germany), A. Chmura (Shell Research, United Kingdom), J. Brombach (Shell Business Recharge Solutions, Germany) (Submission-ID EMOB26-060)
- **Optimized Placement of Dynamic Inductive Charging with Timetable Deviations for Electric Buses**
  K. Schlüter, O. A. Hjelkrem (SINTEF Energy Research AS, Norway) (Submission-ID EMOB26-312)

09:50 – 10:10 **Discussions**

SESSION 3B – AI / MACHINE LEARNING FOR GRID INTEGRATION

08:30 – 10:10 | Session Chair: Nicholas Etherden (University of Gävle, Sweden)

08:30 – 09:50 **Presentations (20 min. each)**

- **Benchmarking Large Language Models for Electric Vehicle Charging Session Forecasting**
  M. Mustafin, J. Andrade (INESC TEC, Portugal) (Submission-ID EMOB26-323)
- **Transfer Larning-Based Utilization Forecasting for Fleets of EV Charging Stations**
  C. Hervé, S. Schreck, T. Schütz, S. Subbaiah, L. Höettecke (Siemens AG, Germany) (Submission-ID EMOB26-313)
- **Preference-Conditioned Multi-Agent Reinforcement Learning for Real-Time EV Charging Coordination Under Grid Constraint**
  S. I. Haider, B. Jin, S. Shen, R. Habeeb, R. Radeke (TUD Dresden University of Technology, Germany), F. H. Fitzek (Centre for Tactile Internet with Human-in-the-Loop – CeTI | TUD Dresden University of Technology, Germany) (Submission-ID EMOB26-166)
- **AI-Based Prediction of Battery Charging Behaviour in a PV–Wind Hybrid System for EV Charging Applications**
  O. C. Ugbe (HAW Hamburg, Germany | University of Nigeria Nsukka, Nigeria), A. Usbeck (HAW Hamburg, Germany),. C. U. Eya (University of Nigeria Nsukka, Nigeria), S. Hallerberg (HAW Hamburg, Germany) (Submission-ID EMOB26-070)

09:50 – 10:10 **Discussions**

SESSION 3C – MODELLING ASPECTS I

08:30 – 10:10 | Session Chair: Bernhard Schowe-von der Brelie (FGH e.V., Germany)

08:10 – 09:50 Presentations (20 min. each)

- **Robust EV Flexibility Assessment Under Data Scarcity: Hybrid Modeling for Live Redispatch Monitoring**
  T. Glissmann, M. von Bonin, R. Riege (Fraunhofer IEE, Germany) (Submission-ID EMOB26-249)
- **Stability Challenges in Railway Power Systems: Insights for Future Grids with High EV Integration**
  I. Abdallah, F. Deheuvels, D. Frugier (SNCF Voyageurs, France), J. Pascal, L. Thevenon (SNCF Réseau, France) (Submission-ID EMOB26-338)
- **Integrated Energy-Logistics Models for EV Grid Integration: A Critical Review and Research Agenda**
  L. Almeida (Instituto Superior Politécnico de Tecnologias e Ciências – ISPTEC, Angola | University Institute of Lisbon – ISCTE, Portugal), E. A. Luís (Instituto Superior Politécnico de Tecnologias e Ciências – ISPTEC, Angola) (Submission-ID EMOB26-271)
- **Optimizing Decentralized Hydrogen and Electricity Supply via Bidirectional Vehicle Integration in Off-Grid Scenarios**
  N. Reininghaus, M. Kröner, A. Pistoor (German Aerospace Center – DLR, Germany), D. Niehaus (Helmholtz-Zentrum Hereon | Helmut-Schmidt University – University of the Federal Armed Forces Hamburg, Germany), M. Vehse, A. Dyck (German Aerospace Center – DLR, Germany), J. Jepsen (Helmholtz-Zentrum Hereon | Helmut-Schmidt University – University of the Federal Armed Forces Hamburg, Germany) (Submission-ID EMOB26-344)

09:50 – 10:10 Discussions

10:10 – 10:30 COFFEE BREAK & POSTER SESSION

SESSION 4A – CHARGING INFRASTRUCTURE PLANNING IN DISTRIBUTION GRIDS

10:30 – 12:05 | Session Chair: Mattia Secchi (DTU, Denmark)

10:30 – 11:42 Presentations (18 min. each)

- **A Data-Driven Analysis of Public EV Charging Behaviour and Infrastructure Use**
  L. Hunter, C. McGarry, I. S. Bayram, S. Galloway (University of Strathclyde, United Kingdom) (Submission-ID EMOB26-133)
- **Co-Simulation Framework for Bidirectional EV Fleet Integration in Low-Voltage Grids**
  K. Nguyen Gia, L. Weispfenning, A. Krontiris (Darmstadt University of Applied Sciences, Germany) (Submission-ID EMOB26-153)
- **Voltage-Stability-Aware Siting and Sizing of EV Charging Stations in Emerging-Market Radial Distribution Networks: An Artificial Bee Colony Approach**
  I. Maranga (Jomo Kenyatta University of Agriculture and Technology | Strathmore University, Kenya), R. Orenge, I. Muisyo (Jomo Kenyatta University of Agriculture and Technology, Kenya), I. Da Silva (Strathmore University, Kenya) (Submission-ID EMOB26-194)
- **Residential Electrification and its Impact on Swedish Low-Voltage Grid: The Role of PV, EV, Heat Pump, and Battery Storage**
  G. R. Pandey (Hitachi Energy, Sweden), P. Huang (Mälardalen University | Dalarna University, Sweden), R. Fachrizal (Mälardalen University, Sweden) (Submission-ID EMOB26-310)

11:42 – 12:05 Discussions

SESSION 4B – V2G ASPECTS

10:30 – 12:05 | Session Chair: Johannes Brombach (Shell Business Recharge Solutions, Germany)

10:30 – 11:42 Presentations (18 min. each)

- **V2G as Backup Power: Performance in 3-Phase Islanding**
  N. Etherden (University of Gävle, Sweden), P. Parisot (CNAM Pays de la Loire, France), M. Erkkilä, I. Nazari, L. Nozari da Silva (University of Gävle, Sweden) (Submission-ID EMOB26-228)
- **Assessing the Economic Viability of Bidirectional Charging: A Techno-Economic Framework for Site-Specific Applications**
  R. Habeeb (TUD Dresden University of Technology, Germany), M. Martinovic, A. Al Bakour, B. Sentuerk (SAP SE, Germany), S. Irtaza Haider, R. Radeke (TUD Dresden University of Technology, Germany), F. H. P. Fitzek (TUD Dresden University of Technology | Centre for Tactile Internet with Human-in-the-Loop – CeTI, Germany) (Submission-ID EMOB26-393)
- **Multi-Use V2G Integration of Large Commercial EV Fleets into Industrial Energy Management: A Rolling Horizon Framework for Frankfurt Airport**
  P. Hess, J. Nold, H. Grävenstein, S. Herold, K. Hooß (Darmstadt University of Applied Sciences, Germany) (Submission-ID EMOB26-078)
- **EV Usage Patterns for Flexibility for Smart Charging Based on Real-World Logging Data in Sweden**
  Y. Kobayashi, M. Taljegard, F. Johnsson (Chalmers University of Technology, Sweden) (Submission-ID EMOB26-223)

11:42 – 12:05 Discussions

SESSION 4C – MODELLING ASPECTS II

10:30 – 12:05 | Session Chair: Lucas Araujo (SINTEF Energy Research, Norway)

10:30 – 11:42 Presentations (18 min. each)

- **Battery-Buffered Fast Charging System Demonstration in the European Project AHEAD**
  T. Reschiglian, L. Winschermann, J. Engelhardt, M. Marinelli (Technical University of Denmark – DTU, Denmark) (Submission-ID EMOB26-011)
- **A MATLAB-Based Design and Optimisation Tool for Wireless Power Transfer Magnetic Couplers**
  L. Carvalho (INESC TEC | University of Porto – FEUP, Portugal), P. Pascoal (INESC TEC, Portugal), A. Gomes (INESC TEC | ISEP, Portugal), A. Hussein, J. Rodrigues (INESC TEC, Portugal) (Submission-ID EMOB26-237)
- **Charging Strategy Assessment for Second-Life Battery Energy Storage Based on Retired E-Ferry Cells**
  A. Manoharan, K. Qian (University of Southern Denmark, Denmark), F. Ur Rahman (University of Southern Denmark, Denmark | University of L'Aquila, Italy), T. Ebel, H. Andersen (University of Southern Denmark, Denmark), C. Cecati (University of L'Aquila, Italy) (Submission-ID EMOB26-004)
- **Beyond SoH: First- and Second-life Evaluation of E-ferry Batteries**
  K. Qian (University of Southern Denmark, Denmark), J. Diers, H. Beiranvand (Kiel University, Germany), H. H. Mikkelsen (Marstal Maritime Academy, Denmark), H. Andersen (University of Southern Denmark, Denmark) (Submission-ID EMOB26-045)
- **Challenges in Differentiating Locally Generated Renewable and Grid-Sourced Electricity in Storage Systems for V2G: A Simulation-Driven Study Based on the German MiSpeL Regulatory Framework**
  F. Sehr, S. Daniel, D. Reiners (EBZ Business School, Germany), W. Duschl (Bayernwerk Netz GmbH, Germany), V. Grinewitschus (EBZ Business School, Germany) (Submission-ID EMOB26-279)

11:42 – 12:05 Discussions

12:05 – 12:15 SHORT BREAK

SESSION 5 – CLOSING SESSION – PANEL DISCUSSION

12:15 – 13:00 | Session Chair: Karsten Burges (Energynautics, Germany)

12:15 – 12:45	**Panel**

GOING ELECTRIC - WHAT ARE THE CHALLENGES BEYOND RANGE AND CHARGERS?

Panelists:

- Mathilde Roblot (Technical University of Denmark – DTU, Denmark)
- Klara Maria Schlüter (SINTEF Energy Research, Norway)
- Eduardo Francisco (E-Redes, Portugal)

12:45 – 12:55	**Discussions**
12:55 – 13:00	**Closing Remarks**

13:00 – 14:00 LUNCH

(START OF WIND+SOLAR WORKSHOP AT 14:00)