

9th INTERNATIONAL HYBRID POWER PLANTS & SYSTEMS WORKSHOP

03-04 JUNE '25

ÅLAND
FINLAND 

organized by **energynautics**

AGENDA AS OF 18 MARCH 2025

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



WORKSHOP AMBASSADOR



ORGANIZER

STRATEGIC PARTNER



TIMETABLE 9TH INTERNATIONAL HYBRID POWER PLANTS & SYSTEMS WORKSHOP

| TUESDAY 03 JUNE 2025 | | | | WEDNESDAY 04 JUNE 2025 | | | |
|---|---|---|--|---|---|-----------------------------------|--|
| Workshop Day 1 | | | | Workshop Day 2 | | | |
| 09:00 – 10:50 | 08:00 – 09:00 REGISTRATION / FOYER | | | 09:00 – 10:40 | STORA SALEN | AUDITORIET | |
| | STORA SALEN | | | | SESSION 5A: HYBRID POWER PLANTS – CASE STUDIES II | SESSION 5B: ANCILLARY SERVICES | |
| WELCOME & SESSION 1: KEYNOTE SESSION | | | | COFFEE BREAK & POSTER SESSION (30 MIN) | | | |
| 11:20 – 13:00 | COFFEE BREAK & GROUP PHOTO (30 MIN) | | | 11:10 – 12:50 | STORA SALEN | AUDITORIET | |
| | SESSION 2A: ISLAND POWER SYSTEMS – CASE STUDIES | SESSION 2B: MODELLING AND SIMULATION | | | SESSION 2C: ECONOMIC ASPECTS | | SESSION 6A: ISLAND POWER SYSTEMS – CASE STUDIES II |
| LUNCH 13:00 – 14:00 | | | | LUNCH 12:50 – 13:50 | | | |
| 14:00 – 15:40 | LUNCH 13:00 – 14:00 | | | 13:50 – 15:30 | STORA SALEN | AUDITORIET | |
| | SESSION 3A: GRID FORMING ASPECTS | SESSION 3B: HYBRID POWER PLANTS – CASE STUDIES I | | | SESSION 3C MICROGRID ASPECTS | | SESSION 7A: SYSTEM ASPECTS |
| COFFEE BREAK & POSTER SESSION (20 MIN) | | | | COFFEE BREAK (20 MIN) | | | |
| 16:00 – 17:40 | COFFEE BREAK & POSTER SESSION (20 MIN) | | | 15:50 – 16:50 | STORA SALEN | | |
| | SESSION 4A: ISLAND CASE STUDIES | SESSION 4B: HYBRID POWER PLANTS ON EUROPEAN ISLANDS: REGULATORY CHALLENGES AND OPPORTUNITIES | | | SESSION 4C HYBRID POWER PLANT SYSTEM DESIGN | | SESSION 8: CLOSING SESSION: PANEL DISCUSSION |
| 19:00/19:30 | WORKSHOP NETWORKING EVENT/DINNER – separately bookable – | | | THURSDAY, 05 JUNE 2025 STUDY TRIP – separately bookable – | | | |

08:00 – 09:00 Registration

All times in the session tables show the on-site time on the Åland Islands (Eastern European Summer Time/EEST= UTC+3), the highlighted stripes show the starting times of the respective sessions in additional time zones.

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| 02:00 New York 07:00 London 08:00 Berlin 11:30 New Delhi 13:00 Jakarta 14:00 Beijing 15:00 Tokyo 16:00 Sydney | |
| 09:00 – 09:15 | WELCOME |
| 09:15 – 10:50 SESSION 1 – KEYNOTE SESSION | |
| 02:15 New York 07:15 London 08:10 Berlin 11:45 New Delhi 13:15 Jakarta 14:15 Beijing 15:15 Tokyo 16:15 Sydney | |
| > Session Chair | Thomas Ackermann (Energynautics, Germany) |
| 09:15 – 10:35 | Presentations (20 min. each) |
| • | Welcome Message Jörgen Pettersson (Speaker of Åland Parliament, Finland) |
| • | Power System and Power Market in Åland Islands C. Rosenberg (Kraftnät Åland, Finland) (Submission-ID HYB25_073) |
| • | Energy Initiatives in Åland Y. Österlund (Government of Åland, Finland) |
| • | TBA NN |
| 10:35 – 10:50 | Discussions |

10:50 – 11:20 GROUP PHOTO & COFFEE BREAK

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| 11:20 – 13:00 SESSION 2A – ISLAND POWER SYSTEMS – CASE STUDIES | |
| 04:20 New York 09:20 London 10:20 Berlin 13:50 New Delhi 15:20 Jakarta 16:20 Beijing 17:20 Tokyo 18:20 Sydney | |
| > Session Chair | NN (Company, Country) |
| 11:20 – 12:40 | Presentations (20 min. each) |
| • | Islands' Energy Transition League – a progress report on decarbonising island power systems D. Quirk (DTU Offshore, Denmark), L. Reus (Leibniz University Hanover, Germany) (Submission-ID HYB25_044) |
| • | Beyond blueprints: EPRI's Vision and Strategies of the Hybrid Energy Future in 2025 D. V Pombo (Electric Power Research Institute – EPRI, Ireland) (Submission-ID HYB25_010) |
| • | BESS-Grid Forming Application in Porto Santo Island. A Tuning Procedure for Stable Virtual Generator Mode Operations K. Osama, A. Rosini, M. Fusero, P. Pongiglione, F. Baccino, P. Serra (Hitachi Energy, Italy) (Submission-ID HYB25_021) |
| • | The Integration of Primary, Secondary, and Tertiary Control For Optimal Energy Dispatch in Island Systems. J. Ågren (Wärtsilä, Finland) (Submission-ID HYB25_074) |
| 12:40 – 13:00 | Discussions |

| 11:20 – 13:00 | | SESSION 2B – MODELLING AND SIMULATION |
|---|---|---------------------------------------|
| 04:20 New York 09:20 London 10:20 Berlin 13:50 New Delhi 15:20 Jakarta 16:20 Beijing 17:20 Tokyo 18:20 Sydney | | |
| > Session Chair | NN (Company, Country) | |
| 11:20 – 12:40 | Presentations (20 min. each) | |
| • | Optimizing Hybrid Renewable Energy Systems: A Scalable EMS with Enhanced Flexibility and Efficiency P. Zúñiga Saiz, A. Pascual Navarro (ABO ENERGY Polytechnical University of Valencia, Spain), C. Sánchez Diaz, A. Correcher Salvador (Polytechnical University of Valencia, Spain), J. Badedá (ABO ENERGY, Germany) (Submission-ID HYB25_027) | |
| • | Enabling Modular Simulation of Hybrid Power Plants by Pre-Defined Interfaces for FMU M. Wiens, N. Requate, T. Jersch (Fraunhofer IWES, Germany) (Submission-ID HYB25_045) | |
| • | TBA NN | |
| • | Active Power Control of a Hybrid Power Plant Comprising Hydropower, Battery and Supercapacitor to Provide Frequency Control Y. Basheer, J. I. Pérez-Díaz (Polytechnical University of Madrid, Spain), M. Blanco (CIEMAT, Spain), J. Fraile-Ardanuy (Polytechnical University of Madrid, Spain), J. Nájera, G. Navarro (CIEMAT, Madrid, Spain), J. Ignacio Sarasúa (Polytechnical University of Madrid, Spain) (Submission-ID HYB25_030) | |
| 12:40 – 13:00 | Discussions | |

| 11:20 – 13:00 | | SESSION 2C – ECONOMIC ASPECTS |
|---|---|-------------------------------|
| 04:20 New York 09:20 London 10:20 Berlin 13:50 New Delhi 15:20 Jakarta 16:20 Beijing 17:20 Tokyo 18:20 Sydney | | |
| > Session Chair | NN (Company, Country) | |
| 11:20 – 12:40 | Presentations (20 min. each) | |
| • | Capacity-Based Grid Tariffs M. Jennerholm, C. Brundin (Energicentrum Gotland, Sweden) (Submission-ID HYB25_070) | |
| • | Comprehensive Economic Evaluation of the Optimal Dispatch of the Reflau Hybrid Power Plant E. Beduglio (Brandenburg University of Technology Cottbus-Senftenberg Fraunhofer IEG, Germany), C. Nolden, A. Plietzsch (Fraunhofer IEG, Germany), M. Ragwitz (Brandenburg University of Technology Cottbus-Senftenberg Fraunhofer IEG, Germany) (Submission-ID HYB25_063) | |
| • | Robust Management of Hybrid Power Plant Portfolios: Addressing Renewable Energy and Market Uncertainties with cGAN M. Moradi Sepahvand (TNO, Netherlands), A. Raja (Ørsted, Denmark) (Submission-ID HYB25_034) | |
| • | The Future of Decentralized Electricity Supply: Empirical Evidence from the Field F. Sioshansi (Menlo Energy Economics) (Submission-ID HYB25_005) | |
| 12:40 – 13:00 | Discussions | |

13:00 – 14:00 LUNCH BREAK

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| 14:00 – 15:40 | SESSION 3A – GRID FORMING ASPECTS |
| 07:00 New York 12:00 London 13:00 Berlin 16:30 New Delhi 18:00 Jakarta 19:00 Beijing 20:00 Tokyo 21:00 Sydney | |
| > Session Chair | NN (Company, Country) |
| 14:00 – 15:20 | Presentations (20 min. each) |
| <ul style="list-style-type: none"> Comparative Analysis of Grid-Forming Capabilities through EMT Simulations and Field Testing: A Battery System and a Synchronous Condenser in Suðuroy, Faroe Islands H. M. Tróndheim (Power Company SEV, Faroe Islands), A. Rosini, M. Vujacic (Hitachi Energy, Italy), T. Buehler, M. V. Rodriguez (Hitachi Energy, Switzerland), T. Nielsen (Power Company SEV University of the Faroe Islands, Faroe Islands Aalborg University, Denmark) (Submission-ID HYB25_040) Dynamic Behavior of Battery powered Grid Forming Inverters in an Island Grid T. Garn (TU Braunschweig – elenia, Germany), T. Weinmann (Technical University of Applied Sciences Augsburg, Germany), K. Wagner, J. M. Pape, G. Kerber (TU München, Germany), M. Finkel (Technical University of Applied Sciences Augsburg, Germany), B. Engel (TU Braunschweig – elenia Germany) (Submission-ID HYB25_023) Grid Forming Wind Power in Multi-Technology Hybrid Power Plants V. Gevorgian, W. Yan, S. Shah (NREL, USA) (Submission-ID HYB25_048) Laboratory Validation of Power Profiles for Inertia Provision by a Grid-Forming Inverter in the Low-Voltage Power Grid J. Grobler, M. Gand, B. Engel (Technical University Braunschweig - elenia, Germany) (Submission-ID HYB25_059) | |
| 15:20 – 15:40 | Discussions |

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| 14:00 – 15:40 | SESSION 3B – HYBRID POWER PLANTS – CASE STUDIES I |
| 07:00 New York 12:00 London 13:00 Berlin 16:30 New Delhi 18:00 Jakarta 19:00 Beijing 20:00 Tokyo 21:00 Sydney | |
| > Session Chair | NN (Company, Country) |
| 14:00 – 15:20 | Presentations (20 min. each) |
| <ul style="list-style-type: none"> Hybrid PV Report A. Augusto, S. Supond (SolarPower Europe, Belgium) (Submission-ID HYB25_065) Prospects and Challenges of Hybrid Power Plants in Finland L. Linnamaa (Fingrid, Finland) (Submission-ID HYB25_072) The Challenges of Implementing a Hybrid Power Plant in Madeira Island, Portugal L. Castro (VAT Portugal Investimentos em Energia, Portugal) (Submission-ID HYB25_075) French NIA Tenders for Hybrid PV + Storage Power Plants: Corsica Sole's 10-Year Experience and Insights from 22 Projects in Corsica and Réunion M. Lévy (Corsica Sole, France) (Submission-ID HYB25_067) | |
| 15:20 – 15:40 | Discussions |

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| 14:00 – 15:40 | | SESSION 3C – MICROGRID ASPECTS |
| 07:00 New York 12:00 London 13:00 Berlin 16:30 New Delhi 18:00 Jakarta 19:00 Beijing 20:00 Tokyo 21:00 Sydney | | |
| > Session Chair | | NN (Company, Country) |
| 14:00 – 15:20 | | Presentations (20 min. each) |
| <ul style="list-style-type: none"> • Performance Assessment of Microgrid Energy Management Systems with an Optimisation Performance Indicator S. Motta, E. Teperi, E. Ronnqvist, E. Heiskala, J. Ågren (Decarbonisation Services, Wärtsilä, Finland) (Submission-ID HYB25_016) • Key Electrochemical and Operational Challenges in Flexibility Provision from Electrolysis Plants in Microgrids M. Ramezanitaghartapeh, M. Ghazavi Dozein (Monash University, Australia) (Submission-ID HYB25_069) • Hybrid Power System for Emission Reduction at the Duisburg Gateway Terminal: A Case Study of the enerport-II Project L. Schürmann (Fraunhofer UMSICHT, Germany) (Submission-ID HYB25_022) • Innovative Energy Laboratory Design for Hybrid Power Systems Research and Education F. Haug, O. Hellstrand, G. Eklund, M. Waller (Åland University of Applied Sciences, Finland), M. Karlsson (Åland University of Applied Sciences Harrys El Ab, Finland) (Submission-ID HYB25_035) | | |
| 15:20 – 15:40 | | Discussions |

15:40 – 16:00 COFFEE BREAK & POSTER SESSION

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| 16:00 – 17:40 | | SESSION 4A – ISLAND CASE STUDIES |
| 09:00 New York 14:00 London 15:00 Berlin 18:30 New Delhi 20:00 Jakarta 21:00 Beijing 22:00 Tokyo 23:00 Sydney | | |
| > Session Chair | | NN (Company, Country) |
| 16:00 – 17:20 | | Presentations (20 min. each) |
| <ul style="list-style-type: none"> • Island Grids in Indonesia: PV-Hydro Hybridization and Interconnection Challenges P.-P. Schierhorn, P. Henzel, J.-D. Schmidt (Energynautics, Germany) (Submission-ID HYB25_076) • Comparison of HOMER Grid and PyPSA for CEM to meet high VRE on Island Grids_A Case Study for Vanuatus Efate Grid J. Prasad, A. Bruce, I. Macgill (University of New South Wales, Australia), N. Verma (UL, India) (Submission-ID HYB25_056) • Hybrid Energy Project of Ikaria Island -NAERAS- Wind-Pump Storage A. Tsoumanis, K. Natsis (PPC RENEWABLES S.M.S.A., Greece) (Submission-ID HYB25_026) • Feasibility of 100% Renewable Energy Supply for the Greek Island Astypalea, Using Vehicle-to-Grid Energy Storage F. Maldonato (CARIAD SE, Germany) (Submission-ID HYB25_078) | | |
| 17:20 – 17:40 | | Discussions |

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| 16:00 – 17:40 | | SESSION 4B – HYBRID POWER PLANTS ON EUROPEAN ISLANDS: REGULATORY CHALLENGES AND OPPORTUNITIES |
| 09:00 New York 14:00 London 15:00 Berlin 18:30 New Delhi 20:00 Jakarta 21:00 Beijing 22:00 Tokyo 23:00 Sydney | | |
| > Session Chair | Lucija Rakočević (Energynautics, Country) | |
| 16:00 – 17:20 | Presentations (20 min. each) | |
| | <ul style="list-style-type: none"> • EU islands + Greek Support for Hybrid Systems, Regulation, Tenders and Implemented Systems (Challenges and Advantages) Kostas Komninos (NN, Greece) • Hybrid Power Plants – Regulatory Barriers NN (NN, Estonia) • Currently Developing Regulatory Framework - ITC? NN (NN, Spain) • Regulation and Support for the Hybrid Power Plants ? NN (NN, France) | |
| 17:20 – 17:40 | Discussions | |

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| 16:00 – 17:40 | | SESSION 4C – HYBRID POWER PLANT SYSTEM DESIGN |
| 09:00 New York 14:00 London 15:00 Berlin 18:30 New Delhi 20:00 Jakarta 21:00 Beijing 22:00 Tokyo 23:00 Sydney | | |
| > Session Chair | NN (Company, Country) | |
| 16:00 – 17:20 | Presentations (20 min. each) | |
| | <ul style="list-style-type: none"> • Revenue-oriented operating strategies for a hybrid power system consisting of battery storage system, electrolyser and photovoltaics using mathematical optimisation T. Sauer, M. Ferk (TU Braunschweig – elenia, Germany) (Submission-ID HYB25_057) • The Design of Economic Minigrids to Include Clean Cooking P. Lilienthal (University of Colorado Alaska Microgrid Group EarthSpark International EnergyFarms, USA) (Submission-ID HYB25_050) • How to Assess and Adress Wildcards in Energy System Modelling, how to Include Hybrid Power Plants in an Energy Model L. Nielson (Nordic Energy Research, Denmark), F. Nissen (Strategirummet, Denmark) (Submission-ID HYB25_066) • How Model Predictive Control of PV + Energy Storage Systems Achieves Higher Returns M. Stadler (Xendee, USA) (Submission-ID HYB25_052) | |
| 17:20 – 17:40 | Discussions | |

19:00 **Dinner**

TUESDAY, 04 JUNE 2025

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| 09:00 – 10:40 | SESSION 5A – HYBRID POWER PLANTS – CASE STUDIES II |
| 02:00 New York 07:00 London 08:00 Berlin 11:30 New Delhi 13:00 Jakarta 14:00 Beijing 15:00 Tokyo 16:00 Sydney | |
| > Session Chair | NN (Company, Country) |
| 09:00 – 10:20 | Presentations (20 min. each) |
| <ul style="list-style-type: none">• Increasing Renewable Generation and System Reliability through Coupling PV and Hydropower A. Tiwari (GE Vernova Advance Research, USA) (Submission-ID HYB25_006)• Overview of electrical topologies of Hybrid Power Plants with Offshore Wind A. Celna (Ørsted Wind Power DTU Wind and Energy Systems, Denmark), K. Das (DTU Wind and Energy Systems, Denmark), M. Gryning, M. K. Bakhshizadeh (Ørsted Wind Power, Denmark), A. D. Hansen (DTU Wind and Energy Systems, Denmark) (Submission-ID HYB25_038)• TBA NN• Multifunctional HIL Testbench for Hybrid Energy Storage Systems Analysis J. Nájera, M. Blanco, G. Navarro, E. Rausell, V. Urda, M. Lafoz (CIEMAT, Spain) (Submission-ID HYB25_009) | |
| 10:20 – 10:40 | Discussions |

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| 09:00 – 10:40 | SESSION 5B –ANCILLARY SERVICES |
| 02:00 New York 07:00 London 08:00 Berlin 11:30 New Delhi 13:00 Jakarta 14:00 Beijing 15:00 Tokyo 16:00 Sydney | |
| > Session Chair | NN (Company, Country) |
| 09:00 – 10:20 | Presentations (20 min. each) |
| <ul style="list-style-type: none">• Enhanced Ancillary Services Provision on Hybrid Power Plants G. A. Raducu, S. Kanev, N. Cassamo (Vattenfall Wind Power, Denmark), B. Alahmad, O. Sahin, V. Dudjak (Vattenfall Research and Development, Denmark) (Submission-ID HYB25_019)• A simultaneous inverter-based black start strategy for distribution grids A. Anta (AIT Austrian Institute of Technology, Austria) (Submission-ID HYB25_036)• Stabilizing Wind Power with Hydrogen: A Pilot with PEM Electrolyser and Fuel Cell H. Rønning Ausen (TechnipFMC, Norway) (Submission-ID HYB25_029)• Robust Control of a Hybrid Power Plant Considering Uncertainty of Ancillary Service P. Stejskal, P. Šůcha, O. Mamula (Czech Technical University in Prague) (Submission-ID HYB25_043) | |
| 10:20 – 10:40 | Discussions |

10:40 – 11:10 COFFEE BREAK & POSTER SESSION

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| 11:10 – 12:50 | SESSION 6A – ISLAND POWER SYSTEMS – CASE STUDIES II |
| 04:10 New York 09:10 London 10:10 Berlin 13:40 New Delhi 15:10 Jakarta 16:10 Beijing 17:10 Tokyo 18:10 Sydney | |
| > Session Chair | NN (Company, Country) |
| 11:10 – 12:30 | Presentations (20 min. each) |
| | <ul style="list-style-type: none"> PV Integration on Grand Bahama P. Henzel, P.-P. Schierhorn, P. Hirani (Energynautics, Germany) (Submission-ID HYB25_077) Small Hydro Power Plants with Integrated Battery Energy Storage for Enhanced Resiliency W. Yan, V. Gevorgian (NREL, USA) (Submission-ID HYB25_049) Alchymiste Project: Decarbonizing and Securing Island Energy Systems T. Le Coz (Corsica Sole, France) (Submission-ID HYB25_071) Investigation Challenges Facing the Integration of the 33 MW EZRA Diesel Power Plant and the 20 MW Nesitu Solar Photovoltaic (PV) Power Plant into the Distribution System in Juba City A. Amogpai (University of Juba, Kenya) (Submission-ID HYB25_041) |
| 12:30 – 12:50 | Discussions |

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| 11:10 – 12:50 | SESSION 6B – HYBRID PLANT CASE STUDIES |
| 04:10 New York 09:10 London 10:10 Berlin 13:40 New Delhi 15:10 Jakarta 16:10 Beijing 17:10 Tokyo 18:10 Sydney | |
| > Session Chair | NN (Company, Country) |
| 11:10 – 12:30 | Presentations (20 min. each) |
| | <ul style="list-style-type: none"> Curtailments in PV-Wind Hybrids Methodology and Case Studies A. S. Freunek (BayWa r.e. Global, Germany) (Submission-ID HYB25_051) Control of Offshore Hybrid Power Plants Considering Aggregation of Plant Technologies A. Celna (Ørsted Wind Power A/S DTU Wind and Energy Systems, Denmark), M. Gryning (Ørsted Wind Power, Denmark), K. Das (DTU Wind and Energy Systems, Denmark), M. K. Bakhshizadeh (Ørsted Wind Power, Denmark), A. D. Hansen (DTU Wind and Energy Systems, Denmark) (Submission-ID HYB25_039) Energy Management Systems in Hybrid Power Plants: The Key to Adapting to Evolving Market Conditions J. Martinez-Rico, I. Ruiz de Argandoña (Tekniker, Spain) (Submission-ID HYB25_061) The impact of secondary regulation reserve market cannibalization on the business model of a hybrid wind-battery virtual power plant. D. Fernández-Muñoz, J. I. Pérez-Díaz (Polytechnical University of Madrid, Spain) (Submission-ID HYB25_031) |
| 12:30 – 12:50 | Discussions |

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| 11:10 – 12:50 | SESSION 6C – NEW TECHNOLOGIES |
| 04:10 New York 09:10 London 10:10 Berlin 13:40 New Delhi 15:10 Jakarta 16:10 Beijing 17:10 Tokyo 18:10 Sydney | |
| > Session Chair | NN (Company, Country) |
| 11:10 – 12:30 | Presentations (20 min. each) |
| | <ul style="list-style-type: none"> Literature Review of AI in Energy Management System in Isolated Hybrid Power Systems T. Nielsen (Aalborg University, Denmark Electrical Power Company SEV University of the Faroe Islands, Faroe Islands), H. M. Tróndheim (Electrical Power Company SEV, Faroe Islands), C. L. Bak (Aalborg University, Denmark), H. Gislason, H. C. Kamban (University of the Faroe Islands, Faroe Islands) (Submission-ID HYB25_055) Innovations in the Development of High-Altitude Wind Energy Systems from Skysails N. Taphorn (SkySails Power, Germany) (Submission-ID HYB25_013) Microgrid Solution for Semiconductor Facilities: A Case Study from Dresden A. Piranishvili (Piller Germany GmbH & Co.KG, Germany), F. Herbener (Piller Group GmbH, Germany) (Submission-ID HYB25_012) Data generation of large-scale green hydrogen production at the Hydrogen Lab Bremerhaven A. Heuschmann, K. Schalk, J. Vervoort (Fraunhofer IWES, Germany) (Submission-ID HYB25_042) |
| 12:30 – 12:50 | Discussions |

12:50 – 13:50 LUNCH BREAK

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| 13:50 – 15:30 | SESSION 7A – SYSTEM ASPECTS |
| 06:50 New York 11:50 London 12:50 Berlin 16:20 New Delhi 17:50 Jakarta 18:50 Beijing 19:50 Tokyo 20:50 Sydney | |
| > Session Chair | NN (Company, Country) |
| 13:50 – 15:10 | Presentations (20 min. each) |
| <ul style="list-style-type: none">• Application of IEEE Interconnection Standards to Hybrid Power Plants—Status Quo and Emerging Solutions J. Boemer, Y. Ma, J. Cordova Guillen, A. Huque (Electric Power Research Institute – EPRI, USA) (Submission-ID HYB25_068)• Optimization and Tuning of Hybrid Wind, Battery, and Statcom Plant for Low System Strength Connection P. Mayer, N. York (Manitoba Hydro International, Canada), M. Gordon (Nordex Energy SE & Co. KG, Germany) (Submission-ID HYB25_060)• Conceptualizing the Protection Properties of DC Networks Using Model-Based Systems Engineering F. Witt, M. Kurrat (TU Braunschweig – elenia, Germany) (Submission-ID HYB25_020)• A Multi-Criteria Methodology for the Optimal Selection of Hydropower Reservoirs for Floating Photovoltaic Deployment I. Raupp, M. Ramos, L. Vieira, J. de Abreu (CEPEL - Electric Energy Research Center, Brazil) (Submission-ID HYB25_064) | |
| 15:10 – 15:30 | Discussions |

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| 13:50 – 15:30 | SESSION 7B – HYDROGEN AND HYBRID POWER PLANTS |
| 06:50 New York 11:50 London 12:50 Berlin 16:20 New Delhi 17:50 Jakarta 18:50 Beijing 19:50 Tokyo 20:50 Sydney | |
| > Session Chair | NN (Company, Country) |
| 13:50 – 15:10 | Presentations (20 min. each) |
| <ul style="list-style-type: none">• Simultaneous Optimal Dispatch and Sizing of Local Energy Systems with Grid Support A. Holthoff (Fraunhofer IWES, Germany) (Submission-ID HYB25_015)• TBA NN (Submission-ID HYB25_000)• Integration and Scaling of Plate Heat Exchanger Models for Enhanced Control of PEM Electrolyzer Systems N. Miranda Hernández, A. Luxa (Fraunhofer IWES, Hamburg University of Applied Sciences, Germany) (Submission-ID HYB25_024)• Geospatial Analysis of Optimal Locations for Standalone Renewable Hybrid Energy Systems in Africa C. Zink, B. Hückner, L. Jansen, M. Pfennig (Fraunhofer IEE, Germany), D. Geiger (Fraunhofer IEE Universität Kassel, Germany) (Submission-ID HYB25_046) | |
| 15:10 – 15:30 | Discussions |

15:30 – 15:50 COFFEE BREAK

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|---|-------------------------|------------------------------------|
| 15:50 – 16:50 | | SESSION 8 – CLOSING SESSION |
| 08:50 New York 13:50 London 14:50 Berlin 18:20 New Delhi 19:50 Jakarta 20:50 Beijing 21:50 Tokyo 22:50 Sydney | | |
| > Session Chair | | |
| 15:50 – 16:20 | Panel discussion | |
| Topics addressed: TBA | | |
| Panelists: | | |
| - TBA | | |
| - TBA | | |
| - TBA | | |
| - TBA | | |
| 16:20 – 16:40 | Discussions | |
| 16:40 – 16:50 | Closing Remarks | |

POSTER PRESENTATIONS

- Design and Optimization of a Hybrid Solar-Wind Microgrid with Energy Storage: A Case Study in Morocco**
 M. EL Qasery, A. Abbou (Mohamed V University, Morocco), L. Mohamed, A. Rochd (Green energy Park, Morocco), L. Id-Khajine (CY Cergy Paris University, France) ([Submission-ID HYB25_003](#))
- Development and Automation of Medium-Scale NFT Hydroponic Systems: Design Methodology and State of the Art Review**
 J. F. Rodríguez León, A. González-Marin, O. Mota-Pérez, J. Pineda-Piñón, R. S. Velázquez-González, J. C. Sosa-Savedra (National Polytechnic Institute–CICATA, Mexico) ([Submission-ID HYB25_004](#))
- Modeling the Participation of Distributed Energy Resources in the Japan Electricity Market Based on IEC 61850**
 R. Shibata, S. Minotsu, G. Fukuda (Electric Power Development, Japan) ([Submission-ID HYB25_007](#))
- Automated Planning of Microgrids at Distribution Grid Level to Resupply Critical Infrastructure during a Blackout**
 J. Wieland, G. Puleo, M. Mütherig, M. Zdrallek (University of Wuppertal, Germany) ([Submission-ID HYB25_008](#))
- Sustainable Energy Generation through Wastewater: A Situation in the Urban City of Lagos, Nigeria**
 B. Aremo, T. Ajayi, D. Olaniyan, S. Akinde (Ogun State Institute of Technology, Nigeria) ([Submission-ID HYB25_014](#))
- Extracting Fossil Free Ecological Energy from Horizontally Flowing Water**
 B. Berntsson (jabe Konsult AB, Sweden) ([Submission-ID HYB25_032](#))
- Evolution and Integration of Hybrid Power Plants in Indian Power System**
 S. Naidu J, P. Manoj, K V N Pawan Kumar, S. S, N. S. Movva, M K Ramesh, V Balaji (Grid Controller of India Limited, India) ([Submission-ID HYB25_033](#))
- Enhancing LVRT Capability and Smoothing Power Fluctuations in PMSG-based Wind Turbines using Supercapacitor Energy Storage**
 G. Musinova, W. Hofmann (TU Dresden, Germany) ([Submission-ID HYB25_037](#))
- Industrial Energy Systems in the Time of On-Site Renewable Energies and Sector Coupling**
 M. Grasenack, H. Schäfers (Hamburg University of Applied Sciences, Germany) ([Submission-ID HYB25_047](#))
- Fitting a dynamic generic circuit model for PEM fuel cell systems**
 K. Pourhossein, D. Schulz (Helmut Schmidt University, Germany) ([Submission-ID HYB25_053](#))
- A simplified static model for inverter-based resources: A case study of grid-forming inverters**
 K. Pourhossein, D. Schulz (Helmut Schmidt University, Germany) ([Submission-ID HYB25_054](#))
- Mechanisms for Utilizing Flexible Resources to Mitigate Distribution Network Congestion from Solar Power Peaks**
 V. Rodin (Checkwatt AB | Chalmers University of Technology, Sweden), O. Carlson (Chalmers University of Technology, Sweden), H. Shafique, M. A. han, D.-E. Archer (Checkwatt AB, Sweden) ([Submission-ID HYB25_058](#))