50hertz | Elia Group

Ensuring Grid Stability for Tomorrow

Global System Operations Summit

Thursday, 17th September 2026

Conference Tracks @ Design Offices Humboldthafen

Track hosted by ESIG · GLOBAL PST CONSORTIUM

	Unlocking Grid Stability through Digital Transformation & Innovative Solutions → Work Lab	Grid Stability: System Security, Market Design and Affordability → Training Room III	Topology Optimizer Symposium – hosted by the German TSOs → Training Room IV-VI	Ensuring Stability in Real-Time Operations under High IBR Penetration → Training Room I-II
9.00 a.m.	**Opening Plenary: Ensuring Grid Stability for Tomorrow** Keynote: Dirk Biermann (50Hertz), Ana Cigarán Romero (50Hertz), Olivier Arrivé (RTE, ENTSO-E), Christian Andreas (50Hertz), Janio Los (ONS), Fred Huang (ERCOT)			
10.00 a.m.	**Coffee Break / Networking**			
10.20 a.m.	**The Power of Many: Open Source for Critical Infrastructure** Sven Fritzsche (Elia Group), Sebastian Grüner (E.ON), Michael Lindner (TU Berlin), Anika Lange (dena)	**Beyond the Blackout Reports: Turning Blackout Learnings into Action** Ana Cigarán Romero (50Hertz), Olivier Arrivé (RTE, ENTSO-E), Nora Filipczak (ENTSO-E)	**Poster Session**	**Observing the System Correctly: Situational Awareness** Karin Wadsack (GPST), Janio Los (ONS), Fred Huang (ERCOT), Diana Strauss-Mincu (Fraunhofer IEE), Ian Dytham (NESO)
12.00 p.m.	**Lunch Break / Networking**			
1.00 p.m.	**Trustworthy AI for Power System Operations** Alex Stefanov (TU-Delft), Svein Harald Olsen (Statnett), Herman Carstens & Kris Laermans (Elia Transmission Belgium), Georg Mensah (50Hertz)	**STATCOMs Beyond Reactive Power: Grid-Forming Control, System Strength and Field Experience** Franz Linke (50Hertz), Khaled Almunem (50Hertz), Sebastian Liemann (Amprion), Andrew Owens (Hitachi Energy)	**Poster Session**	**Control Room of the Future: Dynamic Event Detection** Duncan Burt (Reactive Technologies) Balarko Chaudhuri & Gabriel Covarrubias Maureira (Imperial College London), Jin Tan (NLR), Marc Dokus (Tennet)
2.30 p.m.	**Coffee Break / Networking**			
2.50 p.m.	**Making Waves Offshore: Popcorn Sessions on the New Frontiers of HVDC** Ignacio Iriarte Ramirez (50Hertz), Megan Herbert (50Hertz), Karolina Zieba (Carbon Trust)	**Future Capabilities for System Operation to Integrate 100 % RES – Current Challenges, Best Practice and Future System Design** Jürgen Herreiner, Elisa Papadis & Jannis Brodmann (50Hertz)	**Hands-on / Discussion Round**	**Control Room of the Future: Decision Support** Lina Ramirez (GPST), Anne-Katrin Marten (50Hertz), Fred Huang (ERCOT), Guilherme Mota (ONS), Patricio Valenzuela (CEN)
4.15 p.m.	**Coffee Break / Networking**			
4.30 p.m.	**Open, Done Right: What It Takes to Turn Open Code into Trusted Infrastructure** Alex Thornton (LF Energy), Stephan Gross (LF Energy)	**Operating the Grid under Extreme Weather Conditions** Speakers: TBC	**Hands-on / Discussion Round**	
5.45 p.m.	**Day 1 Wrap-up – Cross-Conference Tracks Connections**			
6.00 p.m.	**Dinner @ Design Offices Humboldthafen** – hosted by			

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Satellite Events @ 50Hertz NQT

Hackathon EMC² (Electricity Market Coupling Compass) – Grid × Markets Fusion Lab
Research Challenge 2.0 – Kick-Off – Research in Action: From Science Desk to Control Center

Locations:
Design Offices Humboldthafen Alexanderufer 3-7, 10117 Berlin
50Hertz NQT (Netzquartier) Heidestraße 2, 10557 Berlin

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9.00 a.m.	**Opening Day 2 & Coffee** including results hackathon Keynote: Sylvia Borcherding (50Hertz) & further speakers		
9.30 a.m.	**Women Powering the Grid. Overcoming the Gender AI Gap.** Sylvia Borcheding (50Hertz), Carolin Böke (SAP), Sirid Böhm (DE&I Advocate), Dr. Christian Humborg (Allianz Foundation)	**Battery Storages – Unlocking Economical Grid Stability** Jannis Brodmann (50Hertz), Benjamin Braun (Fluence Energy), Robert Ahrens (Mitnetz Strom)	**Measurement and Metrics: Redefining System Strength for the Modern Grid (Led by ESIG) (SCR, Voltage Stiffness, Impedance Scanning and Field Pilots)** Chair: Balarko Chaudhuri (Imperial College London) Ambuj Gupta (Imperial College London), Andrew Siler (Telos Energy), Beibei Li (MISO)
11.00 p.m.	**Coffee Break / Networking**		
11.20 p.m.	**Voltcontrol: Use Case & Experience from Implementation (Practical Implementation Lessons and Operator Handover)** Ignacio Iriarte Ramirez (50Hertz), Ralf Heisig (50Hertz), Gerald Laurence (Aurienergy), Eduardo Soto (Phinet Chile)	**Workshop Smart Grid KPIs (part of the Viewpoint Study Grid Stability)** Anna-Lena Hock & Matthis Brinkhaus (50Hertz/Elia Group) Parallel Session in Trainin Room IV-VI **Probably Safe? Rethinking Security Assessment for the furture Grid** Cornelius Heck & Mario Kendziorski (50Hertz)	**Grid Forming Applications (co-convened GPST GFM Council and ESIG GFM Task Force: Requirements, Testing, Operations and Field Deployment Lessons)** Chair: Julia Matevosyan (ESIG) Sebastian Höhn (Tennet), German Kuhn (Siemens), Liang Lu (NESO), Duncan Hughes (Zenobe)
12.30 p.m.	**Lunch Break / Networking**		
1.30 p.m.	**"Monitoring the stability" – Monitoring and Measurement Solutions using Innovative Technologies for Grid Operators and Power Producers. Interesting Examples from Different Parts of the World.** Ralf Heisig (50Hertz), Gerald Laurence (Aurienergy), Eduardo Soto (Phinet Chile)	**Workshop The Stability Ecosystem: Data, Monitoring & Coordination (part of the Viewpoint Study Grid Stability)** Anna-Lena Hock & Matthis Brinkhaus (50Hertz/Elia Group)	**System Operator RoundTable: Deep Dive on Sub-Synchronous Oscillations** Speakers: System operators from across all conference tracks
	Parallel Session in Trainin Room IV-VI		
	Modularity Meets Reality: Practical Takeaways and Lessons from Modular Control Center Service Mirko Pracht (50Hertz), & TBC		
3.00 p.m.	**Closing Session**		