

2023 EUROPEAN



RTDS TECHNOLOGIES INC.

USER'S GROUP MEETING 2023

AGENDA

Day 1 Wednesday, September 20, 2023

08:00 am – 08:30 am	REGISTRATION AND COFFEE
08:30 am – 08:45 am	Welcome address from RTDS Technologies Inc. Paul Forsyth
08:45 am – 09:15 am	Keynote Speech: Dr. Matthias Luther · Friedrich-Alexander-Universität
09:15 am - 09:45 am	User Presentation 1: The ENSURE Co-Demonstration Platform – Approach, Feasibility and Working Status Gert Mehlmann · Friedrich-Alexander-Universität
09:45 am – 10:15 am	User Presentation 2: Practical Experience and Techniques from an HVDC Vendor Sebastian Harant, Jonas Zucker, Suvansh Srivastava · Siemens Energy
10:15 am – 10:30 am	COFFEE BREAK
10:30 am - 11:00 am	User Presentation 3: Testing a novel control architecture for isolated microgrids using Gridspertise’s Hardware-in-the-Loop setup Francesco Renna · Gridspertise
11:00 am – 11:30 am	User Presentation 4: AC protection near VSC HVDC converters Joachim Vermunicht · KU Leuven and EnergyVille
11:30 am – 12:15 pm	RTDS Technologies Presentation 1: Corporate Update & Industry Trends Paul Forsyth & Kati Sidwall
12:15 pm – 1:15 pm	LUNCH PROVIDED BY RTDS TECHNOLOGIES
1:15 pm – 1:45 pm	User Presentation 5: RTDS Simulation and Aquila Interoperability Project Dong Chen · The National HVDC Centre
1:45 pm – 2:15 pm	User Presentation 6: Hitachi Energy HVDC C & P Factory System Test Saudi Arabia - Egypt Project and RTDS Wind Turbine Model Validation Adnan Azmat · Hitachi Energy Sweden
2:15 pm – 2:45 pm	User Presentation 7: RTDS Model for Offshore Coordinated Fast Active Power Control Cees van Vledder · TU Delft
2:45 pm – 3:00 pm	COFFEE BREAK
3:15 pm – 3:45 pm	RTDS Technologies Presentation 2: RTDS Hardware – New Developments Cyprian Peters

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3:45 pm – 4:15 pm	User Presentation 8: Combined Protection CHIL with Wireless 5G Communication Performance Validation Petra Raussi Chauhan · VTT Technical Research Centre of Finland
4:15 pm – 4:45 pm	User Presentation 9: Investigation of Model Predictive Control for Grid Forming Converters in MTDC Networks Rohan Kamat Tarcar · TU Delft
6:30 pm	EVENING EVENT

Day 2 Thursday, September 21, 2023

08:00 am - 08:30 am	REGISTRATION AND COFFEE
08:30 am – 09:00 am	User Presentation 10: Reduced-hardware PHIL for Real-time Testing of BESS Cedric Caruana · University of Malta
09:00 am – 09:30 am	User Presentation 11: Co-Simulation of Real-time and Offline Power System Simulators Christian Scheibe · Siemens AG
09:30 am – 10:00 am	User Presentation 12: A Modular Hardware-in-the-Loop Testbench for the Investigation of Converter Control Interactions and Interoperability Julian Richter · Friedrich-Alexander-Universität
10:00 am – 10:15 am	NETWORKING BREAK & REFRESHMENTS
10:15 am – 11:00 am	RTDS Technologies Presentation 3: All New RSCAD® FX 2.0 Arunprasanth Sakthivel
11:00 am – 11:30 am	User Presentation 13: Functional Testing of HVDC Protection Systems – Towards Multivendor Geraint Chaffey · KU Leuven / EnergyVille
11:30 am – 12:00 pm	User Presentation 14: Impedance-based Stability Analysis of a Power Hardware-in-the-Loop for Grid-Following Inverter Testing Fargah Ashrafidehkordi · Karlsruhe Institute of Technology
12:00 pm – 1:00 pm	LUNCH PROVIDED BY RTDS TECHNOLOGIES
1:00 pm – 1:30 pm	User Presentation 15: HIL and RTDS Assisted De-risking of the Johan Sverdrup Project Cai Ming · RTE International

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Day 2 cont. Thursday, September 21, 2023

1:30 pm - 2:00 pm	User Presentation 16: RTDS Simulation and Network DC – SIF Project Suresh Kumar Rangasamy · The National HVDC Centre
2:15 pm	Depart for Siemens Lab
3:00 pm - 4:30 pm	Tour of Siemens Lab
4:30 pm	Return to FAU

Day 3 Friday, September 22, 2023

08:00 am - 08:30 am	COFFEE
08:30 am – 09:00 am	User Presentation 17: Development of a Custom Induction Machine Component for Computationally Efficient Flywheel Energy Storage Simulation Damian Vilchis-Rodriguez · The University of Manchester
09:00 am – 09:30 am	User Presentation 18: Sub-/supersynchronous Oscillation Analysis in an Off-shore Grid Model using RTDS Sandro Kellermüller · TU Delft
09:30 am – 10:00 am	User Presentation 19: CHIL and PHIL Applications for Protection, Control, and Optimal Operation of Active Distribution Networks and Microgrids Alkistis Kontou · ICCS-NTUA
10:00 am – 10:15 am	NETWORKING BREAK & REFRESHMENTS
10:15 am – 11:00 am	RTDS Presentation 4: New Features, Component Models, and Sample Cases in RSCAD-FX Arunprasanth Sakthivel
11:00 am – 11:30 am	User Presentation 20: Industrial Research into the Reliable Operation of Digital Substations Rick Loenders · KU Leuven and EnergyVille
11:30 am– 12:00 pm	User Presentation 21: A Test Framework for an Adaptive Protection Scheme Using a Hardware-in-the-Loop Setup Tobias Lorz · Friedrich-Alexander-Universität
12:00 pm – 12:30 pm	OPEN DISCUSSION & CLOSING REMARKS
12:30 pm - 1:00 pm	LUNCH PROVIDED BY RTDS TECHNOLOGIES
1:00 pm – 1:45 pm	Tour of FAU Simulation Lab