





PROGRAM AT A GLANCE

22 - 24.11.2023 | 8 AM - 6 PM | DOUBLE MIXTE

Major infrastructure projects for a carbon-free world and their impact on Substation equipment



With the support of:



























How to get there

The MatPost 2023 conference will take place at DOUBLE MIXTE, located in the heart of Lyon, close to station Gare Part Dieu.

Address:

DOUBLE MIXTE
19 Avenue Gaston Berger
69100 Lyon Villeurbanne

Accessibility:

Airport: Lyon-Saint Exupéry

Train Stations: Lyon Part-Dieu (preferably) or Lyon Perrache

Public transportation: Tramways T1 & T4, station "Gaston Berger"

Gala Dinner:

Cruise on the HERMES boat 16 quai Claude Bernard, Lyon 7th ardt From 7:30pm* to 11pm





22.11.2023 | 8 AM - 6 PM | DOUBLE MIXTE

8:00 AM	Registration desk
8:45 AM	Opening Session by François GERIN, SEE President
8:55 AM	Keynote speakers : Michel AUGONNET, CIGRE President and Khalid ABDALLAOUI, RTE Engineering Director
	SESSION 1 – GERALD SANCHIS (SEE) New solutions for new applications
9:35AM	Distributed Energy Resources protection test challenges and solutions - Andrea Bonetti, Sonia Garcia, Stefan Larsson and Nicolas Wetterstrand
9:45 AM	Evolutions of the HV grid Protection and Automation schemes in case of large DC generation sources - Bruno Andre and Yann-Eric Bouffard-Vercelli
9:55 AM	New Modelling Requirements for Inverter Based Resources and Storage System connection on the French Transmission Grid - El-Mehdi Karmani, Elias Mberou, Yannick Vernay and Fabien Morretton
10:05 AM	Power Transformer qualification for floating offshore applications - Tobias Stirl, Vivekkumar Chaubey, Rupesh Daripa, Oguzkan Senturk and Kenny Zhang
10:15 AM	Long term smart grid interoperability: Standards based integration of E- Mobility, Prosumers, and Grid - Mayank Sharma and Tom Berry
10:25 AM	Fire Safety of HVDC Transformers - Simon Ryder
10:30 AM	Supporting the Energy System Transition to Renewables using Real Time Simulators - Paul Forsyth, Kati Sidwall and Cyprian Peters
10:45 - 11:45 AM	Questions to authors and coffee break





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SESSION 2 - OLIVIER MAZEROLLES (RTE FRANCE) Maintenance and life time extension

11:45AM	RTE Large Power Transformers (LPT) Maintenance policies and Asset management Strategy - Abasse Timera and Rudy Blanc
11:55 AM	Tarnishing of power contacts in MV/LV Switchgear- Reasons and Solutions - Keyur Tandel and Hani Modi
12:05 AM	Methodology to assess transformers electrical insulation condition associating different techniques of PD measurements and beyond - Sébastien Louise, Triomphant Ngnegueu, Christophe Perrier and Raphael Lebreton
12:15 AM	Health Index computation in Switchgear Monitoring Systems: providing Asset Performance Management crucial data straight from the primary equipment - Samuel Fifi, Nicolas Gadacz
12:25 AM	COLIBRI (COlmatage Llaison BRIde): Sealing of the SF6 Gas Insulated Substations (GIS) in order to reduce or stop leaks, and thus plan heavy maintenance and increase the lifetime of the assets - Fabrice Durand, Samuel Nguefeu and Aurélien Taureau
12:35 AM	Earth Fault Passage Indicators Using Phase Currents Only in Impedance Grounded and Isolated Distribution Networks - Torbjörn Karlsson and Martin Mellbin
12:45 AM	Verifying line differential protection with time synchronised, primary end-to- end testing using a standard secondary injection test equipment - Andrea Bonetti, Mauro Borielli and Niclas Wetterstrand
12:55 AM	Questions to authors
1:20 PM	Lunch buffet in the exhibition area





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SESSION 3 - LAURENT GAUTHIER (MASTERGRID) Condition monitoring

2:45 PM	Advanced health monitoring for Vacuum Circuit Breaker - Vladislav Kraynov
2:55 PM	RTE Oil-insulated Instrument Transformer (IT) Asset management Strategy - Sandra Griffon and Xavier Gilles
3:05 PM	How to insure the reliability of testing of a modern power transformer protection with a system-based testing approach in the field - Frederic Dunet, Christopher Pritchard, Georgii Tishenin and Thomas Hensler
3:15 PM	On-site dry-type power transformer condition assessment based on partial discharge measurement in wind farms, industrial and marine applications under constricted space conditions - Thomas-Henry Renaudin
3:25 PM	Relations Between Environmental Performance And Data Handling Of High-Voltage Switchgear And Controlgear - Thierry Cormenier, François Trichon, Thierry Bardou, Roselyne Thai and Dominique Serve
3:35 PM	Condition monitoring of switching transients on power transformers of pumped storage power plants - Antonin Fouré, Vincent Renouard, François-Xavier Zgainski and Benoit Bruchon
3:45 PM	Ageing evaluation tools to support power transformers maintenance engineering : Diagnosis by Aging Markers - Mohamed Ryadi, Kim Lan Zappellini, Stephane Flet and Hervé Dumas
3:55 PM	Questions to authors
4:20 PM	Coffee break





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SESSION 4 - PASCAL PEDRINELLI Advanced solutions for digital assessment

4:55 PM	Realising the potential of digital twin technology in power system protection – Opportunities and challenges for, closed loop testing, interoperability and standardisation - Niclas Wetterstrand, Andrea Bonetti, Cedric Harispuru, Ronald Kubelec and Mehdi Zeyeni
5:05 PM	Advanced supervision of high voltage equipment at RTE - Fabrice Martin, Malick Mouhamad and Guillaume Denis
5:15 PM	Catalogue Data Of High-Voltage Switchgear And Controlgear - Thierry Cormenier, François Trichon, Eros Stella, Jean-Luc Rayon, Mutlu Kizilelma, Utku Kalkanci, Gideon Fatunmbi and Ismaila Ayanda
5:25 PM	Innovant Densimeter for GIS Tank, Insensitive to Temperature Variation – Philippe Brun, Diego Alberto and Raimund Summer
5:35 PM	Combined accelerated aging test on digital MV circuit breaker for fault diagnosis and predictive maintenance - Jean-Pierre MELEY, Diana EL KHOURY, Patrick TORTOROLO, Cyril NICOLLE, Zoé BERNARD
5:45 PM	Preventive-Predictive-Proactive monitoring and diagnostics of switchgear using Artificial Intelligence and Machine Learning - Keyur Tandel and Ambrish Gandhi
5:55 PM	Insights and Lessons Learned from a Swedish DSO's Campaign on IEC 61850 Substations: Automating the Verification of SCD Documentation for Improved Maintenance - Anders Karlsson, Andrea Bonetti and Niclas Wetterstrand
6:05 PM	Questions to authors
7:30 PM	Gala Dinner on a boat cruise - 16 quai Claude Bernard, Lyon 7th ardt *The boat will leave at 8pm, do not be late!





23.11.2023 | 8 AM - 5 PM | DOUBLE MIXTE

8:00 AM	Registration desk		
8:40 AM	Keynote speaker : Yann FROMONT, Deputy President T&D Europe		
SES	SESSION 5 – FRANÇOIS TRICHON (SCHNEIDER ELECTRIC) SF6–free alternatives – 1/2		
9:00 AM	SF6 & SF6-free dual gas compatibility of GIS products above 52 kV - Arnaud Ficheux, Tommie Barbe, Bertrand Portal, Samuel Souchal, Felix Bernard and Walter Chesneau		
9:10 AM	F-gas-free Natural Origin Gases for MV GIS, to manage a low carbon future - Thomas Duerr, Dirk Pohle, Klaus Kirchner and Patrick Schneider		
9:20 AM	AVOIDING UNCERTAINTIES ON SAFETY AND RELIABILITY IN 24 kV SF6-FREE SECONDARY DISTRIBUTION SWITCHGEAR - Jose Manuel Inchausti, Joseba Arostegui, Sergio Sebastian and Jean Pierre Gontier		
9:30 AM	Performance investigation of SF6 free Gas Insulated DC Systems - Caterina Toigo, Thanh Vu-Cong, Frank Jacquier and Alain Girodet		
9:40 AM	24 kV RMU filled with pure air in test with Enedis - Christophe Preve and Jean-Pierre Gontier		
9:50 AM	Emission-free natural-origin gas alternative to SF6 for T&D equipment > 52 kV - Mark Kuschel, Bernhard Heil, Kyong-Hoe Kim, Shinsasku Imura, Jürgen Bernauer, Udo Prucker, Daniel Schiffbauer		
10:00 AM	Key Aspects of Today and Future Landscape of Insulating Liquids - Bruce Pahlavanpour and Edward Casserly		
10:10 AM	Questions to authors and coffee break		





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10:40 AM- 12:30 PM

ROUND TABLE

SF6 Alternatives and opportunities to accelerate their deployment and ensure a smooth transition

What are the challenges and opportunities in adopting SF6 alternatives in medium and high voltage switchgear, and how can we collaborate to accelerate their deployment and ensure a smooth transition?

A talk with the participation of:

- European Commission:
 - Arno Kaschl, Policy Analyst
- TSOs/DSOs:
 - o Aurélien TAUREAU, RTE
 - Guillaume LANGLET, ENEDIS
- And many manufacturers:
 - Bertrand PORTAL, GE Vernova
 - Christian OHLER, Hitachi-Energy
 - o Enrique LOPEZ, Ormazabal
 - Marc KUSCHEL, Siemens-Energy
 - o Christophe PREVE, Schneider-Electric







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SESSION 6 - Elena Rodriguez Gonzales (ORMAZABAL) SF6-free alternatives - 2/2

2:00 PM	New 420 kV 63kA GIS switchgear using environment friendly C4-FN / O2 / CO2 gas mixture - Cyril Grégoire, Thomas Lacroix, Antoine Perret, Diana Leguizamon, Samuel Souchal and Félix Bernard
2:10 PM	How to meet the challenge to reduce SF6 leakages from the high-voltage equipment installed base ? - Gaetan Busson
2:20 PM	Pressurized air and vacuum breaking as alternative to SF6 - Daniel Piccoz, Christophe Preve and Romain Maladen
2:30 PM	Performance of High Voltage Circuit-Breakers using C4FN gas mixture on Shunt reactor applications - Cyril Grégoire, Marius Catala and Ludovic Darles
2:40 PM	Testing, installation, and operation experience with pressurized air cables for 36 kV, 3000 A and 123 kV, 2500 A - Walter Holaus
2:50 PM	245kV Single Break capability for Air Insulated Switchgear SF6-free Circuit- Breaker - Blandine Revaud, Antonin Bobeau, David Berard and Joel Ozil
3:00 PM	Questions to authors





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SESSION 7 - Yannick Kieffel (GE VERNOVA) Sustainability and Life Cycle Assessment

3:10 PM	High Performance Power Distribution Transformers - Pablo Cirujano, Jean François Ricaud and Jean Pierre Gontier
3:20 PM	Life Cycle Assessment of Power Transformers - Christophe Perrier, Mathéo Chomel, Joerg Harthun and Tobias Stirl
3:30 PM	Evaluation of new insulation systems for resilient and greener transformers - Fabio Scatiggio, Giorgio Campi, Radoslaw Szewczyk, Evanne Wang and Jean-Claude Duart
3:40 PM	Influences on the Life Cycle Assessment of High Voltage Switchgear - Peter Gronbach, Kirsten Maciejczyk, Mark Kuschel, Andreas Mahnke, Thomas Rank and Catherine Dolt
3:50 PM	Applying circular value-chain principles to extend high-voltage equipment lifecycle - Guillaume Huguet and Olivier Mazerolles
4:00 PM	Application case of regenerated oil in large power transformer - Christophe Elleau and Gilles Jacques
4:10 PM	Taking steps toward sustainability - Thomas Norrby, Par Wedin and Meriam Gourine
4:20 PM	Questions to authors
4:50 PM	Closing ceremony - Dominique SERVE





EXHIBITORS

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