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Reference: **SESSION_2022_C1**



Type:

Session Materials

Title:

Session 2022 - SC C1 Package

[Session registration account](#)

Contents:

Videos

General

- **Opening Ceremony**
- **Opening Panel**
- **Next Generation Network forum**
- **Women In Energy forum (2 videos)**

SC C1

- **Group Discussion Meeting 1**
- **Group Discussion Meeting 2**
- **Workshop B1-B2-B4-C1 - Extra-long transnational transmission lines**
- **Tutorial WG C1.44 - Global interconnected and sustainable electricity system**

Documents PDF

Session Papers & Posters

- **10156** Sectionalizing Transmission Lines, an Expansion Planning Challenge, Amplified by Unexpected Emerging Variable Renewable Generation and Environmental Restrictions
- **10196** Ancillary Services provision from local thermal Systems to the electrical power System

- **10197** A probabilistic Approach to stability Analysis for boundary transfer capability Assessment
- **10221** Risk Modelling in the Decarbonization of Electric Systems
- **10222** Storage Planning - Textbook or Secret Sauce?
- **10223** A 100% Zero Emission Electricity Market in New York
- **10226** Unlocking the Queue with Grid-Enhancing Technologies: Case Study of the Southwest Power Pool
- **10254** Long-term operational reserves evaluation of multi-area systems – Portuguese case study
- **10343** Research on the regulation mechanism and comprehensive evaluation technology of power/gas conversion for clean energy consumption
- **10344** Research on the Planning and Configuration Method of Municipal Heating Electricity Supplementary Heating for Grid-heating Network Coupling
- **10345** Load Forecast Modeling Based on Power Grid Dynamics under Covid-19 Impact
- **10346** A resilient improvement planning method of AC/DC hybrid urban receiver-end power grid
- **10351** Compatibility & interoperability framework to facilitate the step-wise organic development of multi-terminal HVDC grids
- **10380** Mid-term Electricity Storage Needs of the Power System of Cyprus
- **10392** Effects of the COVID-19 Pandemic on Distribution Load Profiles
- **10409** Research on Transmission Expansion Planning Considering Resilience Enhancement of Power Grid
- **10424** Energy Planning considering Citizen Participation: Optimization Models at the Service of a Better Electrical Infrastructure Expansion for Chilean Society
- **10425** BESS Parinas–Polpaico: Capacity Uprating of a 500 kV Transmission Line using Energy Storage
- **10474** Changing paradigm and strategy to reduce the effect of intermittent injection of Power by Renewable Generators through controlled operation of Base load Generators – A Procurer's perspective
- **10475** Experience of Covid-19 Pandemic along with other extreme events in Indian Electricity Market and Progress of Market Reforms
- **10555** The Gridmaster-toolbox, a step towards a new infrastructure investment paradigm
- **10556** Implementation and Application of the Demand Response Mechanism and the Concept of Active Energy Complexes for the Development and Improvement of the Efficiency of UPS of Russia
- **10557** Technical Feasibility Study of Bornholm Energy Island Transmission System
- **10564** Application of a Deterministic Chaos Theory and Artificial Intelligence Methods for Predicting Accidents in Electric Grids of European Russia
- **10586** Energy Storage Planning and Grid Connection Analysis for Renewable Energy in Kinmen
- **10597** Development of Asset Management Method for Power Distribution Equipment
- **10598** Introduction of Non-Firm Type Connection to Expand Introduction of Renewable Energy
- **10706** Asset Management as a Framework for Energy Transition of Power Utilities in Developing Countries
- **10708** Advanced IT Tools for Distribution Network Resilience Improvement: The X-FLEX Project Demo in Xanthi

- **10747** Actions for the implementation of Energy Communities in Colombia
- **10782** Cost of green hydrogen production. The influence of electrolyser technology, res characteristics and CCS
- **10783** How the industrial internet of things is driving the asset management digitalization: the implementation of an interconnected asset performance management system in the electrical power distribution sector
- **10784** Optimising Italian Electricity and Gas Sectors Coupling in a 2030 Decarbonized Energy System
- **10785** KAIROS, An Innovative Tool for Planning Renewable Energies and Flexibility Options in the MENA Region: A case study on the KSA Power System
- **10786** The innovative FlexPlan methodology to reap the benefits of including storage and load flexibility in grid planning: methodology and regional study cases
- **10793** Validation and application of the methodology to compute resilience indicators for the Italian Transmission System
- **10807** Determining optimal technical solutions for new transmission lines (OHL/UGC) in an early project stage to assess environmental impact and stakeholder involvement
- **10811** Combined HVDC system approach for offshore wind power integration and interconnection
- **10812** Active Network Management solutions and their financial implications on distribution grid development
- **10821** Concepts for considering environmental needs and personal safety for substation design and increase the resilience of the grid
- **10909** Interconnection of South Asia for exchanging renewable energy
- **11003** Foundational data layer and data model for Transformer, Cable and GIS specific asset health application
- **11004** Availability of data for asset management and automated condition monitoring
- **11029** Storage and Demand Response inclusion in the network extension planning process
- **11030** Energy transition system prospective and operability studies in Spain
- **11033** Long-Term Demand Forecast For Oman Electricity Transmission System Master Plan (2020-2040)
- **11095** Methods to identify the optimal operating area of a grid booster
- **11096** Voltage Stability Risks Caused by Dynamic Interactions in Integrated Energy Systems
- **11097** German HVDC corridors as starting points for a pan-European HVDC overlay grid
- **11149** Enhancing the Green Hydrogen Business Case

Workshop

- **Workshop B1-B2-B4-C1** - Extra-long transnational transmission lines

Tutorial

- **Tutorial WG C1.44** - Global interconnected and sustainable electricity system

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- **Session 1** - Energy Transition on Power Equipment

- **Session 2** - Changes in Planning and Design of Transmission and Distribution Systems
- **Session 3** - Re-designing regulatory & market tools considering sector coupling scenarios

General Report C1

More Informations :

File Size:163,1 MB **Study Committee :** C1 **Year:**2022
