GCC POWER

THE 21ST CIGRE-GCC INTERNATIONAL CONFERENCE 31ST EXHIBITION FOR ELECTRICAL EQUIPMENT

10-12 NOVEMBER 2025 | REGENCY HOTEL | KUWAIT

Powering the Future Towards Resilient, Clean and Digital Grids

Conference Program

Time Based on UTC +3 (Kuwait Local Time)



GCC POWER مؤتمـــر كهربــاء الخليـ 10-12 NOVEMBER 2025 **REGENCY HOTEL - KUWAIT**







Welcome Message

It is with great pride and heartfelt joy that I welcome you to GCC POWER 2025—a defining moment for our region, where vision, expertise, and collaboration come together to shape a brighter future.

As Chairwoman of the Board, I am deeply honored to stand alongside such distinguished delegates, institutional leaders, and pioneering minds. This event reflects our shared commitment to excellence, inclusivity, and strategic progress across the GCC.

GCC POWER 2025 is not just a program—it is a platform for meaningful dialogue, and transformative outcomes. Together, we will explore best practices, address pending challenges, and celebrate the milestones that mark our collective journey. On behalf of the organizing committee and our esteemed partners, I extend my warmest welcome and sincere gratitude for your presence.

May this gathering inspire bold ideas, foster enduring partnerships, and reaffirm our pride in the progress we are building—together.

With appreciation,

H.E. Eng. Athari K. Al-Mohammed CIGRE GCC, Board Chairwoman





09:00	OPENING CEREMONY
09:00 - 09:05	Welcome statement and Holy Quran
09:05 - 09:10	Patronage Address
09:10 - 09:15	CIGRE GCC Address
09:15 - 09:20	CIGRE International Address
09:20 - 09:25	CIGRE GCC Pioneers Address
09:25 - 09:30	Display of the opening video
09:30 - 09:45	Honoring VIPs and Sponsors
09:45 - 10:10	Spotlight on Kuwait Electricity Sector Dr. Adel Al Zamel MEW Undersecretary
10:10 - 10:40	Exhibition inauguration
11:00 - 12:00	OPENING PANEL SESSION
11:00 - 12:00	OPENING PANEL SESSION Experiences and Lessons Learned from Major Disturbances
	Leading to Partial or Complete Blackouts.
	Moderator: Sean McGuinnes Principal Project Manager EPRI
	Panelists: 1. The Iberian peninsula Blackout Panelist: Mr. Julio Ramon Castro Gonzalez, CEO, Iberdrola
	 National Grid Saudi Arabia, Major Disturbance Panelist: Eng. Ahmed Al-Zahrani, VP, Operations & Control, National Grid-Saudi Arabia
	3. The Oman Blackout Panelist: Mr. Maktoom Al Hosani , Manager, Operational Planning
	4. The Chile Blackout Panelist: Mr. Juan Carlos Olmedo, Board president, CEN
	5. The Brazil Blackout Panelist: Paulo Eduardo Martins Quintao
12:00 – 12:30	PRAYER BREAK & EXHIBITION VISIT

12:30 - 13:25 - TUTORIALS

TUTORIAL 1

Role of Synchrophasors in Wide Area Monitoring, Protection and Control of Interconnected Power Grids.

Speaker:

Athula Rajapakse

Professor, University of Manitoba Winnipeg, Manitoba, Canada

TUTORIAL 2

Harmonic Voltage Limit Specification and Compliance Assessment in Power Systems

Speaker:

Dr. Selma Awadallah

Assistant Professor, Hamad Bin Khalifa University, State of Qatar

13:30 - 15:00 - SESSION 1

	13.30 13.00 - 323310141		
	TRACK A		TRACK B
	SESSION AT		SESSION B1
	Energy Storage as a Pillar of Grid Stability in Renewable- Driven Power Systems		Advancements in Asset Management for Power Systems
	Chaired by: Eng. Naji Ahmed Al Messabi EWEC-United Arab Emirates		Chaired by: Eng. Asma Alsallal MEW-Kuwait
A101	Enhancing Grid Stability in High Renewable Energy Penetration Systems: A Comparative Study of BESS and FACTS for Saudi Arabia Network.	B101	Implementation of Effective Maintenance Quality Control Function in Saudi Electricity Company (SEC) National Grid (NG)
	By: Mohamed A. Hassan Saudi Electricity Company Saudi Arabia		By: Mohammad M. AlShareef National Grid-Saudi Arabia
A102	Hybrid Energy Storage System Sizing for Low-Carbon Power System- Oman National Grid Case Study By: Akhillas Al Waaili OETC-Oman	B102	Exploring Smart Digital Electrical Substations By: Mohamed Elfayoumy Hitachi Energy-United Arab Emirates

A103	Improving Grid Stability under High Renewable Penetration: Optimal Flexibility Reserve Provision Using Short-and Long-Duration Energy Storage Technologies By: Gergo Varhegyi EPRI Gulf-United Arab Emirates	B103	Achieving Operational Excellence through Technological Interventions and Data Analytics By: Lalit Kumar Wasan Etihad Water & Electricity United Arab Emirates
A104	Fast and Steady: Coordinated Control of Battery Storage for Renewable Energy Grids By: Hussain Almakrami National Grid-Saudi Arabia	B104	Impact of environmental and loading conditions on Online Power Factor and Partial Discharge Measurements of 132 kV Bushings By: Simon Sutton Doble Engineering
A105	Control Strategy Development for Utility-Scale Battery Energy		United Kingdom
	Storage as a Virtual Power Line (VPL) in the Saudi Arabia Network By: Dr. Yagoob A. Al-Sharief	B105	Abu Dhabi Phase-Shifting Transformer Project: Automatic Parallel Control, Design, and Commissioning
	Saudi Electricity Company Saudi Arabia		By: Muhammad Danish Shaikh
A106	Leveraging Battery Energy Storage System to Enhance		Schweitzer Engineering Laboratories, Inc. United Arab Emirates
	Voltage Stability: A Case Study of Hail South Network By: Mohammad Sulaiman	B106	Strategic Approach for Managing Aged Submarine Power Cables
	Alrashid Saudi Electricity Company-Saudi Arabia		By: Ilias Christou Saudi Aramco-Saudi Arabia
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.) LIVE SESSION
15:00	LUNCH & END OF DAY ONE		
20:00	GALA DINNER SPONSORED BY N	MEW	



	08:00 - 09:30 - SESSION 2		
	TRACK A		TRACK B
	SESSION A2		SESSION B2
	Enhancing Grid Stability and System Reliability		Transformer Design, Manufacturing, Life Cycle and Performance
	Chaired by: Eng. Tarik Al Abri OETC-OMAN		Chaired by: Eng. Fahad Al-Zahrani Saudi Electricity Company
A201	Enhancing Power System Stability through Al-Driven Load Prediction: LSTM vs. Linear Regression in Oman's Power System By: Malik Alshabibi	B201	Enhancing sustainability for power transformers by using integrated On-Load Tap-Changers
A202	OETC-Oman Enhancing Grid Stability in the		By: Marius Poschenrieder Maschinenfabrik Reinhausen GmbH-Germany
	Southern Region of KSA: Lessons from the June 1, 2019 Blackout through Advanced Modeling and PSS Optimization	B202	Recent Advances in the Condition Monitoring and Health Assessment of Ester Filled Transformers
	By: Mohamed Ali Berriri GE VERNOVA United Arab Emirates		By: Bruce Pahlavanpour Ergon International Inc United Kingdom
A203	Enhancing Electricity Demand Forecasting Through Machine Learning Techniques	B203	Frequency response correlation and validation with routine testing
	By: Nooreya Sayed Shehab Mahfoodh Bahrain Electricity and Water Authority-Bahrain		By: Husain Helal Megger-Bahrain
A204	Damaging over voltages in 230kV transformer-ended feeder due to circuit breaker stuck pole operation: case study of 230/13.8kV 60MVA power transformer failure	B204	Advanced Vibro-Acoustic diagnostic of Onload Tap Changers based on twin transformers comparison and combined VAM and DRM measurements – Case study By: Sofiane Bakkay OMICRON Electronics Gmbh
	By: Nawaf Alarwi Saudi Aramco-Saudi Arabia		Tunisia

A205	Voltage Stability Enhancement Through STATCOM: A Future Proposal for Qatar By: Sami S Abueida Kahramaa-Qatar Application Practice of Static Synchronous Condensers (SSC) to Improve the Stability of Transmission System By: Yalin Zhang Sieyuan Electric-China	B205	Quantifying the Carbon Footprint of Power Transformers through Life Cycle Analysis and Evaluation By: Ayyoub W. Al Hourani KFUPM-Saudi Arabia
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.) LIVE SESSION
09:30	Coffee Break, Exhibition Visits		
	Poster Session 1		
	10:15 – 11:30 - SESSION 3		
	10:15 – 11:30 - SESSION 3 TRACK A		TRACK B
			TRACK B SESSION B3
	TRACK A		
	TRACK A SESSION A3 Smart Integration of Diverse Energy Sources in GCC Power		SESSION B3 Electricity Market Design and Integration of Green

A302	Methodology For Reliability Assessment of Solar PV and CSP Plants with Energy Storage	B302	Outcomes of WG C5.34 on the integration of electro-mobility in electricity markets
	By: Shafique Shahid Mirza Dubai Electricity & Water Authority-United Arab Emirates		By: Anant Venkateswaran CIGRE- WG C5.34
A303	Renewable Energy in the GCC: Mitigating Dust Impact to Boost Solar PV Output	B303	Impact of EV development on power system economics in the GCC region
	By: Mithaq Ateyatalla Sustainable Energy		By: Dr. Marie Petitet KAPSARC -Saudi Arabia
	Expert-Bahrain	B304	Particular challenges for EV integration in the GCC region
A304	Interfacing Nuclear Power Plants with Electric Grids - The UAE Success Story		By: Dr. Hidab Hamwi KISR-Kuwait
	By: Dr. Ahmed Taha Emirates Water and Electricity Company (EWEC) United Arab Emirates		
A305	Renewable Energy Potential in Bahrain - Opportunities, Challenges, and Future Prospects		
	By: Isa S. Qamber Bahrain Society of Engineers Bahrain		
A306	Al for Reliable and Resilient Operations in High Renewable Energy Penetration Systems		
	By: Amer Salman Al Salman National Grid SA / Saudi Electricity Company Saudi Arabia		
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.) LIVE SESSION

11:30 - 12:30

WOMEN IN ENERGY

Session Title:

When the Gender Gap Flips: Lessons from Kuwait

Moderator:

Dr. Abeer Almaimouni

Electrical Engineering Department, University of Kuwait

Panelists:

Eng. Sara Akbar

Chairperson and CEO of OiLSERV Kuwait and the Chairman of the Board of OiLTECH Iraq

Dr. Fotouh Abdul Aziz Al-Ragom

Acting as the Science and Technology Director and the Executive Director of the Energy and Building Research Center at the Kuwait Institute for Scientific Research (KISR)

Eng. Dina AlNakib

Senior Director, Research and Technology Deployment Section , Kuwait Foundation for the Advancement of Sciences

NGN PRESENTATION

Moderator:

Dr. Fahad Alhuwaishel

Abdullah Al Salem University Kuwait

An Effective dq-based Control Technique for a Grid-Connected Single-Phase PUC5 Inverter

By: **Eng. Mustafa M. Alhariri** KCST University

Data-Driven Operational Diagnostics and Performance Mapping of a 20 MW Hybrid PV-Wind Installation

By: **Eng. Ghada Shehada** Kuwait University

Footstep-based Piezoelectric Energy Harvesting via Node Distribution and LTC3588 for Efficient Battery Charging

By: **Eng. Fatma Abou Elhassan** KCST University

Feasibility and Potential of Advanced Copper Recovery From High Voltage Cables in Kuwait

By: **Eng. Bedour AlSayegh** MEWRE

12:30 Prayer Break, Exhibition Visits

Poster Session 2

	13:30 – 15:00 - SESSION 4		
	TRACK A		TRACK B
	SESSION A4		SESSION B4
	Innovative Approaches to Power System Development in the GCC Region		Advancements in Distribution Systems and DER / EV Integration
	Chaired by: Mr. Hilal A. Salim AL Nasiri OETC-Oman		Chaired by: Eng. Abdulrahman Al Dderhan KM-QATAR
A401	Cost-Effective Grid Congestion Management using Battery-based Energy Storage Systems	B401	Enhanced Host Assessment of GIS & AMI/MDM Integration-Based Simulation Tools & RTDS for Distributed Renewables & EV Chargers by
	By: Mohamed Abido King Fahd University of Petroleum & Minerals Saudi Arabia		Electric Utilities - A Case Study of EWA, Bahrain By: Ali Salman Ali Salman
A402	Reliability-Driven Approach for Evaluating Power Supply		Electricity & Water Authority (EWA)-Bahrain
	Redundancy for Oil Fields By: Lina Bahumayshan Saudi Aramco-Saudi Arabia	B402	Improvement of ground resistance by developing the detection and measurement of relation between EM
A403	Demand Response Programs for Efficient Balancing:	_	susceptibility and high soil resistivity
	Concepts, Benefits, and Opportunities for the GCC region		By: Khalid Ayid Shatwi Saudi Electricity Company-Saudi Arabia
	By: Marie Petitet KAPSARC-Saudi Arabia	B403	Simulation-Based Analysis of the Impact of Ambient
A404	National Grid SA Experience for Enhancing System Inertia and Fault Levels with High Renewable Energy Sources Penetration		Temperature on Electric Vehicle Battery Performance in Qatar By: Hazem Kasem Texas A&M University at Qatar
	By: Hussein M Basha Saudi Electricity Company Saudi Arabia		

A405	Technology Prioritization for GCC Power System Expansion: A Data-Driven Multi-Criteria Decision Approach to Net Zero transition By: Abhishek Kar Siemens-United Arab Emirates	B404	Lightning Protection Solutions of Overhead Distribution Lines and Equipment Utilizing Streamer arrester discharge with new model structures By: Mohammed Rafiq Ali Tiro Saudi Electricity Company-Saudi Arabia
		B405	The Role of Smart Grid in Enhancing Reliability and Resilience in Power Distribution System Through Self-Healing Capabilities, Distribution System Network of Nama Dhofar Services as A Case Study By: Said Salim Ahmed Al Mashaikhi Nama Dhofar Services-Oman
		B406	Extending Transformer Lifespan through Static Phase Balancing in LV Networks By: Urban Kuhar Dewesoft d.o.oSlovenia
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.)
15:00	LUNCH & END OF DAY TWO		
16:00	GCC CIGRE BOARD MEETING		
4			

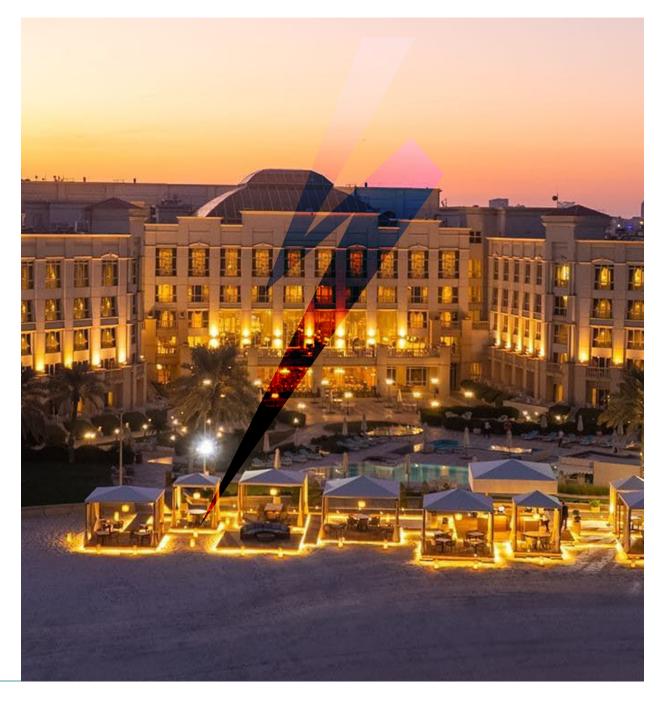


	08:00 - 09:30 - SESSION 5		
	TRACK A		TRACK B
	SESSION A5		SESSION B5
	Al and Smart Grids: Innovative Approaches to Monitoring and Energy Efficiency		Novel Techniques in Substation Automation and Protection
	Chaired by: Eng. Mohamed Y. Al-Kubaisi KM- Qatar		Chaired by: Eng. Khaled Al Ameri TAQA-UAE
A501	Artificial Intelligence in Predictive Maintenance: A Holistic Approach to Electrical	B501	Novel Fault Detection Technology for High Voltage Submarine Cables
	Equipment Monitoring		By: Mohammed Ibrahim Ali OMICRON Electronics-Bahrain
	By: Saad Mohammed Albreak National Grid-Saudi Arabia	B502	Introduction of Phase Shifting Transformers in Abu Dhabi
A502	Application analysis of fgOTN in electric power communication network		Network: Advanced Protection, Control Strategies and Key Experiences
	By: Zhiqiang YIN Huawei Technologies Co., Ltd. Qatar		By: Murali Kandakatla TAQA-Transmission United Arab Emirates
A503	Machine Learning-Based Smart Meter Data Analysis for Fault Detection and Tampering Identification in Oman	B503	The Effect of Inverter-Based Resources on the Short Circuit Level and Protection Relays Pickup Settings
	By: Alaa Al Kiyumi Nama Electricity Distribution Company-Oman		By: Mohammed Saleh Alghamd National Grid-Saudi Arabia
A504	Developing Sustainable System for Future Data Centers By: Abdullah Ayad Alharbi Aramco-Saudi Arabia	B504	Standardizing Signal Lists, SCL Engineering, and Testing Processes Throughout the System Lifecycle of Substation Automation Systems
			By: Mohammed Khamis Aloufi OETC-Oman

A505	Advanced Metering Infrastructure (AMI) National Project: Modernizing Distribution Networks and Harnessing the Power of Integration in the Big Data Era By: Khalfan Al Burtamani Nama Electricity Distribution Company-Oman Gas-Fired IPPs in the Era of Growing RES Investment By: Maryam Al-Aali KAHRAMAA-Qatar	B505	Experience of implementing a full digital substation in the Middle East By: Rajesh Ananth Kumaresapandian GE VERNOVA United Arab Emirates Al-Driven Enhancements in Protection Systems for Power Transmission By: Ebraheem Al-Mufarrej MEW-Kuwait
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.) LIVE SESSION
	Coffee Break, Exhibition Visits		
09:30	Poster Session 3		
09:30	Poster Session 3 10:30-12:00 - SESSION 6		
09:30			TRACK B
09:30	10:30-12:00 - SESSION 6		TRACK B SESSION B6
09:30	10:30-12:00 - SESSION 6 TRACK A		
09:30	10:30-12:00 - SESSION 6 TRACK A SESSION A6 Advanced Techniques for Overhead Line and Cables		SESSION B6 Smart and Sustainable Grid Solutions: HV Equipment, Substations, and Flexible AC/DC

A602	Condition Assessment and Lifetime Strategy Program for High Voltage Land and Submarine Cables in the Oil and Gas Industry	B602	Advancing Composite Insulators for Reliable and Sustainable Power Grids Worldwide By: Eric Moal Independent Expert-France
	By: Haitham Al Arfaj Saudi Aramco-Saudi Arabia	B603	Online PD monitoring of transmission assets and its
A603	Transmission capacities in AC vs DC cable systems By: Alwin Paul Prysmian Cable Sytems		benefits at TAQA Transmission By: Rejimon Rasheed TAQA Transmission United Arab Emirates
A604	Investigation of Defect Insulation Systems with Deferent Artificial Cavities Consisting of High Voltage Power Cable By: Mustafa Mukhtar Hassanein Ahmed	B604	Ensuring Accurate Power Quality Measurements in Modern Electrical Grids: Assessing the Wideband Performance of Inductive Voltage Transformers By: Anas Abdulkhader OMICRON Electronics MEA United Arab Emirates
A605	Saudi Electricity Company - National Grid (SEC)-Saudi Arabia Research and Application of Long-Life Composite Insulators and Compact Line Solutions in Extreme Harsh Environments By: Héctor De Santos Shemar-Spain	B605	Technical Considerations of Grounding Grid Design Calculation for FACTS and HVDC Projects By: Basem M. Alsuhaibani Saudi Electricity Projects Development Company Saudi Arabia
		B606	DC Faults and Protection Strategies for HVDC systems with Overhead Transmission Line By: Hani Al Khazim National Grid-Saudi Arabia
	Q&A (15 min.) LIVE SESSION		Q&A (15 min.) LIVE SESSION
12:00	Technical Team Meeting		
	Prayer Break, Exhibition Visits		
	Poster Session 4		

13:30 - 14:15	CLOSING SESSION
13:30 – 13:35	CIGRE GCC Chairman Closing Statement
13:35 – 13:45	CIGRE GCC Secretary General Announcements
13:45 – 14:00	Technical Committee Chairman Remarks & Recommendations and best Papers Award Announcement
14:00- 14:15	Honoring committees & Distinguish Members
14:15	Closing and Lunch - End of Conference





09:30 - 10:1	5 POSTER SESSION 1
P101.	Experiences with implementation of an asset performance (APM) management tool at TAQA Transmission
	By: Vinoth Kumar Subramani-TRANSCO-United Arab Emirates
P102.	Practical Implementation of Two-Dimensional Transformer Fleet Management Approach based on an example of a German Utility
	By: Dr. Alexei Babizki Maschinenfabrik Reinhausen-Germany
P103.	Enhancing Predictive Maintenance of 11kV Distribution Networks: Offline Partial Discharge Testing Using Damped AC Signals
	By: Mohamed Alhayki Megger Limited-Bahrain
P104.	Digital Twins Applied to Power Grids
	By: Jean-Pierre Girard P. HEXACODE Solutions-Canada
P105.	Advancing Transformer Diagnostics: A Statistical Analysis of a Publicly Available DGA Database
	By: Mohamed Barhdadi Texas A&M University-Qatar
P106.	Real-time Monitoring of a Lightning Arrester using online Partial Discharge (PD) Measurements and its Correlation with Third Harmonic Leakage Current Analysis
	By: Umesh N Soni Electrical Research And Development Association-India
P107.	Application of Dissolved Gas Analysis for Fault Identification in Natural Ester Oil Filled Power Transformers: A Case Study
	By: Manjusha S. Nambiar Electrical Research and Development Association (ERDA)-India
P108.	Residual life estimation techniques, risk assessment based on fault level data and guidelines for replacement or refurbishment based on asset utilization curve
	By: Vikas Singh Damodar Valley Corporation (DVC)-India

12:30 - 13:30	POSTER SESSION 2
P201.	Decision tree optimization for distribution network planning: a case study
	By: Yazan Qiblawey Iberdrola Innovation Middle East-Qatar
P202.	Simulation Of Rcc-Ground Fault Neutralizer (Rcc-Gfn) Grounding System For Distribution Networks To Enhance The System Reliability Using Pscad Software
	By: Arun Jeyakumar Dar International for Engineering Consultancy-India
P203.	Enhancing MPLS-TP Security: Future-Proofing Grid Communications Against Al-Driven Cyber Threats and Post-Quantum Risk
	By: Mahmoud Zakaria GE Vernova-Saudi Arabia
P204.	Singular fault patterns created by Inverter Based Generation and their influence on line protection
	By: Roberto Cimadevilla ZIV-Spain
P205.	Technical requirements in design, Installation & power system automation for the Mobile Sub-station in projects (A case study)
	By: Yogesh M Patil Saudi Aramco-Saudi Arabia
P206.	Non-invasive PD monitoring system using a deep neural network (DNN)-based sound event recognition algorithm
	By: ByeongYun Ko KAIST-South Korea
P207.	Mitigating transformer fires by using an underground oil holding tank
	By: Ahmed I.M. Musa SRACO-Saudi Arabia
P208.	Frequency Regulation for Low Inertia Power System with High Penetration of Photovoltaic System
	By: Khaled Maitah Electricity Distribution Company-Jordan

P209.	Accelerating Renewable Energy Adoption in Kuwait Through Policy Framework
	By: Dr. Rashid A. Al Shatti Kuwait Institute for Scientific Research-Kuwait
P210.	Feasibility Analysis and Economic Viability of Offshore Wind Farms in Kuwait
	By: Abdullah S Al Otaibi Public Authority for Applied Education and Training, Higher Institute of Energy-Kuwait

09:30 - 10:30 POSTER SESSION 3	
P301.	Design of a Hybrid Solar PV–Wind–Storage System for High Voltage Substation Support in the Kingdom of Saudi Arabia
	By: Mounir Bouzguenda King Faisal University-Saudi Arabia
P302.	Renewable Energy Integration in India: Challenges, Grid Disturbances, and Mitigation Strategies
	By: Pankaj Kumar Jha Power Grid Corporation of India LtdIndia
P303.	Secure Microgrid Communication: A federated deep learning approach for Network Intrusion Detection in Microgrids connected over IEC-60870-5-104 protocol
	By: Sajath Ponpuram Sathar Hitachi Energy-Qatar
P304.	The role of artificial intelligence in the maintenance of assets for transmission stations to enhance the efficiency of electricity networks in the Gulf States
	By: Abdulsalam Khadan Dayes Al Marei National Grid-Saudi Arabia
P305.	Smart Testing for Smart Grids: Digital Twins in Relay Protection
	By: Mohamed Ibrahim Ali OMICRON Electronics-Bahrain

P306.	HVDC Transmission Relaying Strategies: advanced protection schemes and challenges
	By: Mohammed Hussien Hassan Musa Saudi Electricity Company-Saudi Arabia
P307.	Experimental Studies on Jordan's power grid stability with integrated electricity storage systems
	By: Abdallah Al-Hayajneh SEPCO - Jordan
P308.	Voltage Regulating Distribution Transformers (VRDTs): Enabling Grid Flexibility for Achieving Net-Zero in the GCC
	By: Waqas Hussain Maschinenfabrik Reinhausen-United Arab Emirates
P309.	Long-Term Dimensional Stability of Cold Shrink MV Cable Joints Using LSR Under Simulated Storage Conditions
	By: Mohammed ALy Khalil Askar Bahra Electric-Saudi Arabia
P310.	Integration Challenges and Ancillary Service Contributions of Grid-Forming Inverters
	By: Mohamed Elsayed KAHRAMAA - Qatar

12:00 - 13:3	POSTER SESSION 4
P401.	Considerations in The Design of Islanding and Load Shedding Control Systems at Oil and Gas Processing Facilities
	By: Abduljaleel Almutawah Saudi Aramco-Saudi Arabia
P402.	Conceptual Design of Power Infrastructure for a Large-Scale Crude Oil Development: Grid Integration, Stability, and Reliability Considerations
	By: Jerry Su GE Vernova International LLC-United Arab Emirates
P403.	BESS based LVRT feature implementation in Grid Connected PV System
	By: Asheesh Dhaneria Electrical Research and Development Association-India

P404.	Assessing rate of change of frequency and inertia limit in a real power system with high variable renewable energy and storage penetration: a case study of Northeast Saudi Arabia
	By: Dr. Abdelaziz Salah Saidi National Grid Company - Grid Studies Dep. Central Operation Area, Saudi Arabia
P405.	Control Philosophy for Variable Shunt Reactors in High Voltage Submarine Cable Systems for Offshore and Onshore Substations
	By: Nagaraj Neradhala Dar International for Engineering Consulting-Saudi Arabia
P406.	Artificial Intelligence Techniques for enhancing Load Forecasting
	By: Abdelrahman Alheyasat NEPCO-Jordan
P407.	Effects of MVARs in large interconnected Electrical Networks between Utility and Consumer Plants
	By: Mohammad Atif Saudi Aramco-Saudi Arabia
P408.	Performance analysis of grid forming inverter with different control strategies
	By: Khaled Maitah Electricity Distribution Company-Jordan
P409.	Comprehensive Review of Global Grid Codes for Power System Operators
	By: Jamshed Saleem GCCIA-Saudi Arabia
P410.	Challenges and Recommendations for Replacing LOPF with XLPE Cable in Electric Utilities
	By: Abdullah Al Tarooti Saudi Electricity Company-Saudi Arabia

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