

GCC POWER 2020 E-CONFERENCE & EXHIBITION
25th – 26th November 2020



Conference Program

Time based on UTC+3

The First Day: Wednesday 25th November 2020 (10th Rabi Al-Thani 1442)

Conference Registration - Click on the link to register <http://cigre-gccpower.com/>

Opening Ceremony: 10:00 – 10:20

The First Day: Wednesday 25th November 2020

10:25-10:30		PLATINUM SPONSOR SPEECH - HITACHI ABB POWER GRIDS	
25TH NOVEMBER 2020 10:30 – 12:15	SESSION A1: SYSTEM OPERATION & CONTROL, ELECTRICITY MARKET & REGULATION Chaired by: Riyadh Al Umair, SEC	SESSION B1: ASSET MANAGEMENT FOR POWER SYSTEMS, TRANSFORMER DESIGN, MANUFACTURING, LIFE CYCLE AND PERFORMANCE Chaired by: Dr. Salem Al-Harhi, TRANSCO & Kamel AL-Shehabi, EWA	
	A101 Inertia & Stability assesment of the GCC Grid, Ikram Rahim, GCCIA	B101 A Paradigm Shift in Dealing with Data Uncertainty in Transformer Asset Management, BHABA PRIYO DAS, HITACHI-ABB PowerGrids	
	A102 Challenges of Power System Applications Implementation, Sultan Alshammari, Saudi Electricity Company	B102 A practical approach for enhancing stakeholder effectiveness through improved asset and grid information governance - Achieving digital utility status by 2024, Jayaprakash Ponraj, TRANSCO	
	A103 Analyzing Voltage Dip in Oman Main Interconnected System Using Wide Area Monitoring System, Yaqoub Al Shamli, OETC	B103 Partial Discharge V/s Noise in Online GIS Partial Discharge Monitoring Systems - Experience of KAHRAMAA, Zuhair Al Shaiba, KAHRAMAA	
	A104 Transmission regulation: the economic regulation applied for Oman Electricity Transmission Network, Alaa Al Kiyumi, Muscat Electricity Distribution Company	B104 Smarter means Smaller: how IoT has squeezed the power grid into the palm of our hand, Alessandro Pedretti, Hitachi ABB Power Grids	
	A105 Development of electricity spot market in Oman: challenges and benefits, Zahra Al Rawahi, Oman Electricity Transmission Company	B105 Learning from failure investigations on power system components, Muhannad Al-Suhaily, DNV GL	
		B106 An intelligent system for condition assessment of power transformers and management decisions, Mohamed Khalil, Doble Power Test	
	B107 Site Repair of Large Transformers - Experience of KAHRAMAA, Zuhair Al Shaiba, KAHRAMAA		
11:00 – 12:00		PLATINUM SPONSOR HITACHI ABB POWER GRIDS MEETING (Meeting Room)	
Topic: The Utility of the Future - How a data-driven utility can leverage digitalization to address the challenges of renewables integration			
12:15– 12:30		BREAK	

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TRACK – A		TRACK - B		
25th November 2020 12:30 – 14:00	SESSION A2: SYSTEM OPERATION & CONTROL Chaired by: Fahad Al Saho, NGRID	SESSION B2: SYSTEM DEVELOPMENT & ECONOMICS Chaired by: Hisham Al-Riyami, OETC		
	A201 Enhancing Transient Stability of Interconnected Power System Using a Resistive Superconducting Fault Current Limiter, <i>Mohamed Saleh Alashqar , KAHRAMAA</i>	B201 A Detailed Comparison Of Various Alternatives For Transmission Reinforcement, <i>Muhammad Tanveer Ahmad, K-Electric</i>		
	A202 GCC Power Grid -Black-start Capability Assessment and Restoration Strategies, <i>Talal M. Alshaikh, GCCIA</i>	B202 LONG-TERM DEMAND FORECAST FOR OMAN ELECTRICITY TRANSMISSION SYSTEM MASTER PLAN (2020-2040), <i>Aiman Rashid Ali Al Naamani , Oman Electricity Transmission Company</i>		
	A203 POWER SYSTEM CONTROL AND OPERATION (BS) AND SYSTEM RESTORATION IN THE KINGDOM OF SAUDI ARABIA, <i>Abdullah Matar Alharbi, Saudi Electricity Company</i>	B203 Coordinated Design of Multiple of Power System Stabilizers (PSSs) and Thyristor Controlled Series Capacitor (TCSC), <i>Malik Mohammed Al Hajji , Saudi Electricity Company</i>		
	A204 Improving GCCIA Voltage Profile and Reactive Power Exchange with MS's, <i>Bandar Faraj Almarri, GCCIA</i>	B204 Engineering a Code for an Eco Friendly & Ever-changing Grid, <i>CHAMOLLET, EDF</i>		
	A205 Technical Studies for Connecting New Steel Arc Furnace Plant to Oman Electricity Transmission System, <i>Hilal Mohammed Al Zadjali, Oman Electricity Transmission Company (OETC)</i>	B205 Global Sustainable electricity system, <i>Gerald SANCHIS, RTE</i>		
13:00 – 13:45 DIAMOND SPONSOR GCCIA MEETING (Meeting Room)				
13:00 – 14:30 Tutorial 1 (GCC CIGRE ROOM) NERC Best Practices for Enhancing Power System Reliability and Security Mr. Hugo F. Perez, Manager of North American Relations, North American Electric Reliability Corporation				
14:00 – 14:30 BREAK				
25th November 2020 14:30 – 16:00	TRACK - A		TRACK - B	
	SESSION A3: RENEWABLE ENERGY AND NUCLEAR POWER FOR THE GULF STATES Chaired by: Mohammad Al Muaili, GCELAB		SESSION B3: DISTRIBUTION SYSTEMS Chaired by: Obid Al Ajmi, MEW	
	A301 Sustainable Generation Expansion Planning (GEP) with renewables: A case study of Bahrain, <i>Abdulla Alabbasi, Bahrain Center for Strategic, International and Energy Studies</i>		B301 An Alternative to Traditional Metallic Armors to Improve Mechanical Performances of Energy Cables, <i>Michelangelo Graziano, Oman Cables Industry SAOG</i>	
	A302 Flexibility requirements of the KSA power system in presence of a massive development of renewables, <i>Mohannad Alghamdi, Saudi Electricity Company</i>		B302 REVIEW OF SCADA SYSTEM FOR DISTRIBUTION POWER SYSTEM AUTOMATION, <i>Ahmed Mostafa Elshebiny, Mazoon Electricity Company</i>	
	A303 Distribution of Wind Turbines to Reduce the Variance of Power Generation (Case Study), <i>Nasser Ali Hakami, NATIONAL GRID SA</i>		B303 HDPE Outer Sheath Performance, <i>Dr. Mohamad Nabih Al Saati, RCGC</i>	
	A304 The Grid Code Compliance testing for wind energy: The Case of Dhofar Wind Farm, <i>Ammar Suhail Mohammed Almuhandis Alyafai, Oman Electricity Transmission Company</i>		B304 Impact of Auto-Recloser with Sectionalizer and Limiting Fuse System on the Reliability Indices of Electrical Distribution Systems, <i>Mohamed Abdou El Basyouni, Saudi Electricity Company</i>	
A305 UAE - Performance Review of the 935 MW PV Solar Power Plant, <i>Dr. Ahmed, Abu Dhabi Transmission and Despatch Co. TRANSCO</i>		B305 A centralized protection and control system using a well proven transmission class protection relay, <i>Slobodan Mladenovic, GE</i>		

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14:15 – 15:00	DIAMOND SPONSOR OTN SYSTEMS MEETING	(Meeting Room)
Topic: Easy implementation of MPLS-TP technology to support transport of time-critical data		
16:00	Close of the Day	

The Second Day: Thursday 26th November 2020

		TRACK – A	TRACK – B
26th November 2020 10:00 – 12:00	SESSION A4: RENEWABLE ENERGY AND NUCLEAR POWER FOR THE GULF STATES Chaired by: Ahmed Al-Zahrani, NGRID		SESSION B4: SMART GRIDS Chaired by: Mohammad Al-Hamad, GCCIA
	A401 Dye sensitized solar cells using natural dyes, <i>Ethar Abdulrahman Almahmoud, Princess Nora University</i>		B401 Unidirectional and Bidirectional Connections and Cybersecurity of Smart Grid Infrastructure, <i>Bassam Khalil Alali, Saudi Electricity Company</i>
	A402 GRID BACKUP PROTECTION ON RENEWABLES SUBSTATION PLANTS: ZONE 3, OVERCURRENT AND OTHER OPTIONS, <i>Carlos Aguilar, GE Power Management SL</i>		B402 Cyber Security Supply Chain Risks and Challenges, <i>Rabee Al-Maqabi, GCCIA</i>
	A403 Performance and Reliability of Operational Wind Turbines, <i>LOTFI BOUZIDI, SEC.</i>		B403 ENHANCING NETWORK SAIDI BY USING SELF-HEALING CONCEPT: A CASE STUDY, <i>Mohammed Sulaiman Al Mamari, Muscat Electricity Company</i>
	A404 EXPLORING THE EFFECT OF USING THE NANO-COATING ON THE PERFORMANCE OF THE POLYCRYSTALLINE SOLAR PANELS IN RIYADH, <i>Ahmed Mohammed Alshaheer Yahiya, alfanar</i>		B404 A study to improve TRANSCO's power network availability and reliability by enhancing the redundancy of operational data for smart grid applications, <i>Vinay Sardana, TRANSCO</i>
	A405 Studying the impact of pre and post solar PV integration, <i>Mohamed Abdalla Qawam, Abu Dhabi Transmission and Despatch Company</i>		B405 Innovative testing in Smart Grids, <i>Mohamed Mohamed Ibrahim Mostafa Ali, OMICRON</i>
			B406 Experience report of the new MPLS-TP network, <i>Ramon Bächli, ABB Power Grids</i>
11:00 – 11:45	GOLD SPONSOR NYNAS MEETING		(Meeting Room)
Topic: Ultra-low viscosity Bio-degradable transformer oil – Nytro [®] Bio 300X			
12:00 – 12:15	BREAK		

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26th November 2020		TRACK – A	TRACK – B
12:15 – 13:15	SESSION A5: HVDC FACTS AND TECHNOLOGY Chaired by: Abdullah Al Ghamdi, GCCIA	SESSION B5: SUBSTATION PROTECTION & AUTOMATION Chaired by: Eng. Haifaa AIMteiri, TRANSCO	
	A501 Benefits and Challenges of HVDC-Based Pan-Arab Interconnection, <i>Gergo Varhegyi, Siemens Energy</i>	B501 Process Bus – Digital Pilot Bay for 132 kV Transformer Protection with LPIT & CIT in TRANSCO Abu Dhabi Shakhbout City Project, <i>Kamlesh Jain, Siemens LLC</i>	
	A502 A Control Method of Inverter Interfaced-Distributed Energy Sources (DER's) under Transient Conditions and its Challenges and Opportunities, <i>Sheetalnath Patil, Goldensun</i>	B502 Reliable detection of downed conductors with low fault currents in Medium Voltage OHL feeders using Directional Sensitive Earth Fault Protection, <i>Mubarak Hassan Mubarak Suliman, Saudi Electricity Company</i>	
	A503 Life Extension of HVDC System: Issues, Challenges and Options, <i>Laura Stolle, Siemens Energy</i>	B503 Testing Busbar Protection (BBP) Systems Using Process Bus Technology, <i>Rajesh Ananth, GE</i> B504 PROTECTION SCHEMES AND GROUNDING METHODS ON MV RENEWABLE SUBSTATIONS IN SPAIN, <i>Carlos Aguilar, GE Power Management SL</i>	
13:15 – 13:30		BREAK	
13:30 – 15:00	TRACK – A	TRACK – B	
	SESSION A6: OVERHEAD LINES AND INSULATED CABLES, SUBSTATIONS, SWITCHGEAR AND HV EQUIPMENT Chaired by: Fadel Al-Anzi, KM	TUTORIALS	
	A601 Effectiveness of Strategic Planning in the Restoration of a Submarine Cable Fault, <i>Ibrahim Saad Alnasser, Saudi Aramco</i>	Tutorial 2 Are blackouts here to stay? A look into the past and future Alexandre Oudalov Manager Power Systems of the Future Hitachi ABB Power Grids	
	A602 TRANSCO Experience in EHV Underground Cable Support System in Micro-Tunnels, <i>Riyaz Ahmad K Ranganekar, TRANSCO</i>		
	A603 OPTIMIZATION OF RIGHT OF WAY FOR 380kV TRANSMISSION LINES, <i>Mofareh Saeed Al-Otaibi, National Grid Saudi Arabia</i>		
	A604 Development and Application of GIS with Extension Function Module of Uninterrupted Power Based on Double Isolating Distance, <i>Li Shuai, Sieyuan Electric Co., Ltd</i>		
A605 GIB Length Minimization in EHV Substations, <i>Ahmed Ali Adrees, SEC</i>			
15:00 – 15:15		BREAK	
15:15 – 15:30	CLOSING SESSION		
15:30		CONFERENCE CLOSE	