

2020 PES General Meeting - Virtual Program

Day	Event Start	Event End	Event Type	Event Title	Audience URL
Monday - 3-Aug	8:00 AM	9:00 AM	Panel Session	PES Members Meeting	https://event.on24.com/wcc/r/2461905/A594AE4332ACDFC76F5A4EEEE1F1FA7F3
Monday - 3-Aug	9:30 AM	11:30 AM	Panel Session	Plenary Session	https://event.on24.com/wcc/r/2461910/618468DB062A89FFFD13A6BA0CD10BE3
Monday - 3-Aug	1:00 PM	5:00 PM	Panel Session	Analytical Approaches to Power Converter Interactions in Transmission Grids	https://event.on24.com/wcc/r/2461888/6CB2F9D673DD340906C87F0B21BC2372
Monday - 3-Aug	1:00 PM	5:00 PM	Panel Session	Avoiding hybrid AC DC transmission line cascading outages	https://event.on24.com/wcc/r/2461881/091222BF9241DBCA74E375A9E49BD62A
Monday - 3-Aug	1:00 PM	5:00 PM	Best Paper Session	Best Conference Papers on Distributed Energy Resources, Inverter-based Devices, and Microgrids	https://event.on24.com/wcc/r/2461762/0A76C6ED47BC41C90303F730EC32BB93
Monday - 3-Aug	1:00 PM	5:00 PM	Best Paper Session	Best Conference Papers on Distribution Systems, Energy Hubs, and Smart Grids	https://event.on24.com/wcc/r/2461774/C2666588538D4D3D13836AF134F515BA
Monday - 3-Aug	1:00 PM	5:00 PM	Best Paper Session	Best Conference Papers on Planning, Operations, and Energy Markets	https://event.on24.com/wcc/r/2462840/606EBC0ED5832DCCF95EC029CAF15916
Monday - 3-Aug	1:00 PM	5:00 PM	Best Paper Session	Best Conference Papers on Power System Dynamics, Control, and Protection	https://event.on24.com/wcc/r/2461914/C5A8935E903B65D86D6C3900B0515C3D
Monday - 3-Aug	1:00 PM	5:00 PM	Panel Session	Condition Monitoring, Advanced Topics, and Application of Big Data and IoT for Electrical Machines and Motor Drives	https://event.on24.com/wcc/r/2461886/107ED1F8422DAC4273EA581CBF6C82BD
Monday - 3-Aug	1:00 PM	3:00 PM	Panel Session	Developing Tools for the Design and Commissioning of HVDC and FACTS Systems – the Canadian Expertise and Experience	https://event.on24.com/wcc/r/2461882/4F4A8BA66F6C6B30C1EBC9672005D3C0
Monday - 3-Aug	1:00 PM	5:00 PM	Panel Session	Grid-Forming Inverter for High Renewable Grid Applications	https://event.on24.com/wcc/r/2461885/9BBAAE25CFCODE065F356D31DFA735BA
Monday - 3-Aug	1:00 PM	3:00 PM	Panel Session	Predictive Big Data Analytics for Outage Management	https://event.on24.com/wcc/r/2461880/58C98C0A6043B6F885095750BC1D0139
Monday - 3-Aug	1:00 PM	5:00 PM	Panel Session	Recent HVDC and FACTS refurbishments, installations, and special controls and economic choices	https://event.on24.com/wcc/r/2461889/6377EB71FCE5CEC5A6C9D29D420E91EA
Monday - 3-Aug	1:00 PM	3:00 PM	Panel Session	Renewable Dominated Transformation in Future Smart Grid	https://event.on24.com/wcc/r/2461883/716688A685F7E5458229275A6DBA3310
Monday - 3-Aug	3:00 PM	5:00 PM	Panel Session	Artificial Intelligence and the Future of Distribution Management Systems	https://event.on24.com/wcc/r/2461895/DAC8B0152E3331171DA97D65A5D24533
Monday - 3-Aug	3:00 PM	5:00 PM	Panel Session	Load modeling and simulation in power grid with multi-type energies	https://event.on24.com/wcc/r/2461897/69ED404F8E19504CBF790D3447BD065F
Monday - 3-Aug	3:00 PM	5:00 PM	Panel Session	Low carbon multi-energy systems integration	https://event.on24.com/wcc/r/2461901/9DA6B10E9C59355E1A29099734D6072D
Monday - 3-Aug	3:00 PM	5:00 PM	Panel Session	Young Professionals Panel Session	https://event.on24.com/wcc/r/2461894/26831B5015FA1279F0CE9DDDA146DA3D
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Big Data Analytics Committee Poster Session	https://event.on24.com/wcc/r/2461917/A9767E83DE758DE57C5D3F57E4A126DF
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Computer Analytical Methods Committee Poster Session (papers 62-1339)	https://event.on24.com/wcc/r/2461918/2ABFEE4FE3493FB3AD99D103D25F0630
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Computer Analytical Methods Committee Poster Session (papers 1413-1968)	https://event.on24.com/wcc/r/2461921/9F22DB7697B8C78EE5BFBE7832C7A02E
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Distribution System Analysis Committee Poster Session (papers 164-1300)	https://event.on24.com/wcc/r/2516693/6E4C33858D604AFDD47F84FA2F1550ED
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Distribution System Analysis Committee Poster Session B (papers 1305-1880)	https://event.on24.com/wcc/r/2472856/84E97C64DC5C403EBE59230CBF8952E4
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Intelligent Systems Committee Poster Session	https://event.on24.com/wcc/r/2461923/419A47D01580D5EC53F5478BD0B37A0A
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Reliability and Risk Analysis Committee Poster Session	https://event.on24.com/wcc/r/2461926/186F49C5BAF3ABB04691E4D60EA2B42F
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Analytic Methods for Power Systems Transient Analysis and Simulation Committee Poster Session	https://event.on24.com/wcc/r/2461927/ED7D391A637B344DFB02FBBED8C90863
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Electric Machinery Committee Poster Session	https://event.on24.com/wcc/r/2461929/1164D090AD903239C6C938ABDB72F070
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Energy Development and Power Generation Committee Poster Session (papers 190-1154)	https://event.on24.com/wcc/r/2461930/BA613DCD67B2C43F5D3230E1B2BBF03C
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Energy Development and Power Generation Committee Poster Session B (papers 1191-1882)	https://event.on24.com/wcc/r/2472767/DF469E5BA7602D0630FA9E7639FA8BEF
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Energy Storage & Stationary Battery Committee Poster Session	https://event.on24.com/wcc/r/2461932/AA808C1060B3D431DD68CD1829E3A76E
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Grid & Emerging Technologies Coordinating Committee Poster Session	https://event.on24.com/wcc/r/2461938/0E9E5CB78D37E6BA10C95E86FC1503A2

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Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Insulated Conductors Committee Poster Session	https://event.on24.com/wcc/r/2461942/3087BCFA4C0A311DE449AA359A27BDC6
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Marine Systems Coordinating Committee Poster Session	https://event.on24.com/wcc/r/2461943/4037106607B75B49EA43E99B75993C3F
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Dynamic Performance Committee Poster Session (papers 51 - 841)	https://event.on24.com/wcc/r/2461945/EBED8802AB6E7272814DD8E64C45A456
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Dynamic Performance Committee Poster Session B (papers 876-1304)	https://event.on24.com/wcc/r/2472788/414280140D6CE67CCE01FE2AF097ED88
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Dynamic Performance Committee Poster Session C (papers 1310-1938)	https://event.on24.com/wcc/r/2472786/1DE112E1F571D37BA3358461E2911D7F
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Instrumentation and Measurements Committee Poster Session	https://event.on24.com/wcc/r/2461954/42602574D9E0D78419641DC478ECEAFA
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Bulk Power System Operations Subcommittee Committee Poster Session (Paper 46-1069)	https://event.on24.com/wcc/r/2461965/FFE51CF4B43B55F9E99B8C8CC6E59952
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Bulk Power System Operations Subcommittee Committee Poster Session B (Paper 1121-1960)	https://event.on24.com/wcc/r/2472845/7916A4AEFE01EDCE53FF76C787D55300
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Bulk Power System Planning Subcommittee Committee Poster Session	https://event.on24.com/wcc/r/2461983/97AF621BC79D4FD797CE4F4E702C84B3
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Committee Poster Session	https://event.on24.com/wcc/r/2461955/CDD08296E2794E1399552473F8AA749D
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Distribution System Operation and Planning Subcommittee Committee Poster Session (Paper 113-1018)	https://event.on24.com/wcc/r/2461966/49D9E6055FD1BF0B9355958A1EF4E4B8
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Distribution System Operation and Planning Subcommittee Committee Poster Session B (Paper 1032-1928)	https://event.on24.com/wcc/r/2472862/BEE61CCF29994A9366CCDB7B973BEB7B
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Power System Economics Subcommittee Committee Poster Session	https://event.on24.com/wcc/r/2461968/6BA173ADB8F15736753A740EEBD3C3E3
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power System Operation, Planning & Economics Technologies & Innovation Subcommittee Committee Poster Session	https://event.on24.com/wcc/r/2461971/6E006AD91C7D98BF4FCA0FA16040B91D
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power Systems Communications & Cyber Security Committee Poster Session	https://event.on24.com/wcc/r/2461960/ED8E9AC09DDD4D6808C19D2ACF1F0B1F
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Power Systems Relaying & Control Committee Poster Session	https://event.on24.com/wcc/r/2461964/71301D09AE8596142CE560F696F2F3D9
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Smart Buildings, Loads & Customer Systems Committee Poster Session (paper 218-952)	https://event.on24.com/wcc/r/2461972/D194D99318BC8A70478E39A42E2638C6
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Smart Buildings, Loads & Customer Systems Committee Poster Session B (paper 1014-1956)	https://event.on24.com/wcc/r/2501687/62C58452B47C39056AA56FF25330ADA8
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Substations Committee Poster Session	https://event.on24.com/wcc/r/2461975/1BC3D290377F5A1DC480FE208BEEF8C7
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Switchgear Committee Poster Session	https://event.on24.com/wcc/r/2461976/2A65A9221DF46BF7272080F57845914F
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Transformers Committee Poster Session	https://event.on24.com/wcc/r/2461980/34FC288565C44D7F68CF5B76684AEA90
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Transmission and Distribution Committee Poster Session (paper 43-1320)	https://event.on24.com/wcc/r/2461982/418B4E89AA29E7F24570D3A96B78EF55
Monday - 3-Aug	5:00 PM	7:30 PM	Poster Session	Transmission and Distribution Committee Poster Session B (paper 1386-1894)	https://event.on24.com/wcc/r/2472894/D4C21D543B9E3E53E964EB48B5C42F38
Tuesday - 4-Aug	7:00 AM	9:30 AM	Panel Session	Student Poster Session A	https://event.on24.com/wcc/r/2462092/0DDF8B131FDD8CB8A6995B379FF8378F
Tuesday - 4-Aug	7:00 AM	9:30 AM	Panel Session	Student Poster Session B	https://event.on24.com/wcc/r/2472890/ECC5A70D441032A6526E6145DC943C33
Tuesday - 4-Aug	7:00 AM	9:30 AM	Panel Session	Student Poster Session C	https://event.on24.com/wcc/r/2472891/3863EB213BD8857D7F0E5D83B805739D
Tuesday - 4-Aug	7:00 AM	9:30 AM	Panel Session	Student Poster Session D	https://event.on24.com/wcc/r/2472892/4D25FF2C5EE6653943BC2F28B2059A90
Tuesday - 4-Aug	7:00 AM	9:30 AM	Panel Session	Student Poster Session E	https://event.on24.com/wcc/r/2472893/CB3211610A9A0819301476DFDF02003C
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Carbon Pricing: Design Constraints and Impacts on Wholesale Electricity Markets	https://event.on24.com/wcc/r/2462117/6B7DC1E8F6FCD11B4C473CCB0DCB753B
Tuesday - 4-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Computer Analytical Methods	https://event.on24.com/wcc/r/2462749/E3E5B76020A75C745C7A22DDBD9E10FC
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	DER market integration – opportunities and challenges	https://event.on24.com/wcc/r/2462101/354C8CE2A23A50C296BB6E5BC063BA7

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Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Disaster Awareness, Preparedness and Restoration for Renewable and Microgrid Integrated Resilient Power Grid	https://event.on24.com/wcc/r/2462095/E93849B3FA7A6494CB8247E66681FAEE
Tuesday - 4-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Distribution System Analysis	https://event.on24.com/wcc/r/2462747/690DC716B47763D876A22FFEA09CAD62
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Implementation and Operation of Advanced Power and Energy System Testing Facilities – Canadian Initiatives	https://event.on24.com/wcc/r/2462104/D9F42322DB74E899DD7AF3A457C6A816
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Integration of various source data for enhanced situational awareness of power system	https://event.on24.com/wcc/r/2462099/2E3E19890CA37B207F757E3D97893982
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Late Breaking News - Part 1 - Impact of Covid-19 Pandemic on the Electrical Energy Industry	https://event.on24.com/wcc/r/2462080/3A817A74B04B36648E5DE6ED1D5CF2A3
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Learning to Model, Monitor, and Control Power Distribution Systems	https://event.on24.com/wcc/r/2462097/C9E4F366DA84AD7C19F6600CC07C7FA5
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Leveraging Demand Side Flexibility to Support System Operations	https://event.on24.com/wcc/r/2462119/9BF1B7125094CD39D0A1D2B3C9DD5AC9
Tuesday - 4-Aug	8:00 AM	12:00 PM	Panel Session	Modelling and Simulation of Large Power Systems with high Penetration of Inverter-based Generation	https://event.on24.com/wcc/r/2462094/026138743F063292AA4F13821AF21F87
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Open-Source Bulk Power System Operations Models	https://event.on24.com/wcc/r/2462103/C570D5C4718FB8B46469CBDF8A829C4F0
Tuesday - 4-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Power System Communication, Measurement and Control	https://event.on24.com/wcc/r/2462748/C9563F183F77A60199F96E892F54372C
Tuesday - 4-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Operations Paper Forum #1 (paper 194-1249)	https://event.on24.com/wcc/r/2462743/BDCB8B335C65A6314EBF882F0F32E4E7
Tuesday - 4-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Operations Paper Forum #1 B(paper 1468-1890)	https://event.on24.com/wcc/r/2472868/BEF1293CDD88B9F6C870D43318C6EA52
Tuesday - 4-Aug	8:00 AM	12:00 PM	Panel Session	Protection System Impacts with Inverter-Based Resources	https://event.on24.com/wcc/r/2462120/C68FC5944185C07B65AC581D5B486814
Tuesday - 4-Aug	8:00 AM	12:00 PM	Paper Forum	Resource and Transmission Planning Paper Forum (paper 89-1193)	https://event.on24.com/wcc/r/2462746/E2ED35DCBBE18F5EF73CDC0A5C8086D2
Tuesday - 4-Aug	8:00 AM	12:00 PM	Paper Forum	Resource and Transmission Planning Paper Forum B (paper 1226-1933)	https://event.on24.com/wcc/r/2472886/980A88F1AC4631CF713376E59355C88C
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Security Constrained Optimal Power Flow: A Review of ARPA-e's First Grid Optimization Competition	https://event.on24.com/wcc/r/2462102/2E427C4EBC0C34457B382EAC3738B764
Tuesday - 4-Aug	8:00 AM	10:00 AM	Panel Session	Technical, economic and social challenges and potential solutions in designing and operating viable microgrid systems	https://event.on24.com/wcc/r/2462098/2ECF01A4C3E334BED671BE895445832D
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Advanced Data Analytics for Power Asset Management	https://event.on24.com/wcc/r/2462126/A63C1BE02021581425B7FD6CFE9D558D
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Data Science and Energy Systems: Industry Challenges and Case Studies	https://event.on24.com/wcc/r/2462127/9BD14454D0D9AE077C39A30A19E98450
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Improving national and subnational renewable energy planning	https://event.on24.com/wcc/r/2462153/620DEF4FED5EFD23882473A79446319E
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Improving the efficiency of large scale Unit Commitment towards future resource Integration	https://event.on24.com/wcc/r/2462151/A2635CD9DD5DAB6B25EB904072929526
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Learning to Optimize Power Transmission Systems	https://event.on24.com/wcc/r/2462150/F7821DC1278122D744200C5AF2910FB9
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Low Frequency HVAC Transmission Systems	https://event.on24.com/wcc/r/2462129/4F602DDEDFD20ACF333AC287ED9AA003
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Methods to quantify and respond to risk in power system planning and operation	https://event.on24.com/wcc/r/2462128/OD5F8F94824882E533CB68AE537E7F15
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	State Estimation for Power Electronics-Dominated Systems: Challenges and Solutions	https://event.on24.com/wcc/r/2462124/4646F7AC7F036A25CA341EEBA8F88FB5
Tuesday - 4-Aug	10:00 AM	12:00 PM	Panel Session	Test Systems for System Operations, Unit Commitment, System Planning with High Renewable Energy Penetration	https://event.on24.com/wcc/r/2462152/CF4F8E4A85DBC3D681F1F81E0352109
Tuesday - 4-Aug	10:30 AM	12:30 PM	Panel Session	Late Breaking News - Part 2 - Addressing Electric Power and Energy Hot Topics	https://event.on24.com/wcc/r/2501665/BD765997B66FBA8E7F029205333D14F9
Tuesday - 4-Aug	11:00 AM	5:00 PM	Panel Session	Blockchain in Energy Workshop	https://event.on24.com/wcc/r/2462085/41C7F0417A86004E779A58C21AA808B4
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	AI-2020 for Power and Energy Systems Operations and Control	https://event.on24.com/wcc/r/2462159/4CE1C2E2F0FF5CCAE3F6CC84F6E9E76E
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Analyzing dependent, common mode and cascading outages in standard utility data	https://event.on24.com/wcc/r/2462156/ECE04438C1347B81F598B9162D9A035C
Tuesday - 4-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Big Data Analytics	https://event.on24.com/wcc/r/2462752/9C4CA35255F7BA8D1D2FA7916692317E

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Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Disruptive Technologies: Multi-Disciplinary Careers for Modern Grids	https://event.on24.com/wcc/r/2462170/2F093E8B7E4C2A7240ED364885FB33C6
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Electric Vehicles as Flexible Demand-side Resources: Research Progress, Obstacles and Pilot Projects	https://event.on24.com/wcc/r/2462175/2DD9DF55D7622F41DD71124B6C326777
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Emerging issues on market-based coordination and control of behind-the-meter distributed energy resources: communication, privacy, security, learning	https://event.on24.com/wcc/r/2462189/8EF4DAD17DAD0ACBC00945567A3BAEEB
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Enhancing Grid Resiliency with Synchronized Measurement Based Power System Protection and Control	https://event.on24.com/wcc/r/2462172/EE7E213344EC6EEBC68D48CB4F7F463A
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Experiences with Improving the Energy Supply Security and Reducing the Carbon Footprint of Canadian Northern Communities	https://event.on24.com/wcc/r/2462187/6EE91B381B0BF8C81DDEA5E0435F225C
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	Facing the Changing Resource Mix	https://event.on24.com/wcc/r/2462087/F5D3FD6505C4DD6E20288EDEE78990EF
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	High Renewable Energy Penetrations within Isolated and Remote Area Power Systems	https://event.on24.com/wcc/r/2462171/DBE79319B80A05B8AB7C3E80E74E44B5
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	How Internet Thinking Changes Energy Systems	https://event.on24.com/wcc/r/2462186/C1F3CF7AF5CB31157FE7154F7ADB5E4E
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Managing Power Electronics based Power Systems	https://event.on24.com/wcc/r/2462161/E52C5BDB5D97EC1CF88C16B8E4C6C281
Tuesday - 4-Aug	1:00 PM	3:00 PM	Panel Session	Methods for Dynamic Phasor Modeling of Components and Systems	https://event.on24.com/wcc/r/2462158/E6349511D9D9FDE5A3702B29B362EF8C
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	Natural Disaster Mitigation: Best Practices, Methods and Resilience Metrics	https://event.on24.com/wcc/r/2462174/34F916A2A8A916ED236C684C1FD7F0BF
Tuesday - 4-Aug	1:00 PM	5:00 PM	Paper Forum	Power System Operations Paper Forum #2 (paper 125-1101)	https://event.on24.com/wcc/r/2462750/DC8281985C3AF4B7985ACC3510B0F955
Tuesday - 4-Aug	1:00 PM	5:00 PM	Paper Forum	Power System Operations Paper Forum #2 B (paper 1126-1950)	https://event.on24.com/wcc/r/2472870/10635304F55FA3F5718081E2919E2F68
Tuesday - 4-Aug	1:00 PM	5:00 PM	Paper Forum	Power System Stability and Protection Paper Forum #1	https://event.on24.com/wcc/r/2462751/E0BBD272E1B30A6CD9ACB647C2B0BEC6
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	Price Formation Under Operational Uncertainty	https://event.on24.com/wcc/r/2462160/B60FBA704BEB4ABF8C74CD35C7BB0E9B
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	The Future of Power Quantity Measurements under Non-Sinusoidal Conditions	https://event.on24.com/wcc/r/2462190/4A929CED62EC1B7A6E9F25199CC1C88A
Tuesday - 4-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Transient Analysis and Simulation 1	https://event.on24.com/wcc/r/2462753/C414A8A0C1EC3005DE7DEBFB2344A629
Tuesday - 4-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Transient Analysis and Simulation 2	https://event.on24.com/wcc/r/2462754/752873CFD69F452458B50AF2E72EDBDD
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	Updates to Synchronous Generator Models	https://event.on24.com/wcc/r/2462173/8546E9DECDFE74FACEEE5498BCBFAADC
Tuesday - 4-Aug	1:00 PM	5:00 PM	Panel Session	Wind SSO: Real-World Events and Advanced Modeling	https://event.on24.com/wcc/r/2462169/7ACA7C9CAD61EBE55EF813283986FD01
Tuesday - 4-Aug	3:00 PM	5:00 PM	Panel Session	DER management Creating DER Flexibility & Reliability	https://event.on24.com/wcc/r/2462196/3C834436B78A2C1DA72C6C021DE28C95
Tuesday - 4-Aug	3:00 PM	5:00 PM	Panel Session	Interfacing Techniques and Tools for Combined Transmission-Distribution Interdependency Analysis	https://event.on24.com/wcc/r/2462192/AD8CEC352BA5767AE7E3106FE8A9B5C4
Tuesday - 4-Aug	3:00 PM	5:00 PM	Panel Session	Resilience Metrics and Modeling in Operation and Planning	https://event.on24.com/wcc/r/2462197/391CB33A8D2F2D50EB48601E8DB66EEA
Tuesday - 4-Aug	3:00 PM	5:00 PM	Panel Session	Success Metrics and Value Streams for Microgrids Implementation: Economics, reliability, resiliency or sustainability?	https://event.on24.com/wcc/r/2462195/CB05F032784B4BC87EF274E831876EB6
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Addressing Cascading Outages and Planning for Resilience in the Changing Grid	https://event.on24.com/wcc/r/2462211/8BF4C5A38A7FDAEFFB235B9FCBB96DF9
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Addressing Power System Operation Challenges Using Blockchain	https://event.on24.com/wcc/r/2462213/D01C8E96AC2332011E5F5BA9EDCD1219
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Asian and Australasian Innovative Contribution to Smart Grid Technology (Session 1)	https://event.on24.com/wcc/r/2462767/D64C81AC03EBA99F6142916F25F5898D
Wednesday - 5-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Bulk Power System Operations and Planning 1	https://event.on24.com/wcc/r/2462823/4E5FEEA8C12601429AAD2F334E4131B4
Wednesday - 5-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Bulk Power System Operations and Planning 2	https://event.on24.com/wcc/r/2462824/3145D3EA501A75512DB8E0BA933A4384
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Challenges with High Penetration Solar PV: Causes, Impacts and Potential Mitigation	https://event.on24.com/wcc/r/2462768/4502BD818E9A2A89AEEEF95201DF81C3
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Decarbonization Through Electrification	https://event.on24.com/wcc/r/2462759/47969DF93C299B39541439C4DBC9585D

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Wednesday - 5-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Distribution Operation, Planning and Load Side Analysis 1	https://event.on24.com/wcc/r/2462826/722EA4736CA311EB4131292E3C56AD5A
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Flexible and Resilience Operation of Interdependent Power and Water Networks	https://event.on24.com/wcc/r/2462217/2202861D99116E20A2F92F8437DB311D
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	HVDC grid protection and protection equipment	https://event.on24.com/wcc/r/2462209/ED24BE80C58901A7E1AB0447DADEE6C2
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Intelligent consumers and load data processing for efficient operation of buildings and smartgrids	https://event.on24.com/wcc/r/2462207/0FAD049D4D01E672D7E11803D9DA3E68
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Machine Learning for Power System Planning and Operation	https://event.on24.com/wcc/r/2462766/2DDE910675C04BC5A3B70819CFD40093
Wednesday - 5-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Modeling and Analysis Paper Forum #1 (Paper 42-544)	https://event.on24.com/wcc/r/2462822/5A00DCC75DE2C4708528FA02712A76AE
Wednesday - 5-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Modeling and Analysis Paper Forum #1 B(Paper 597-1116)	https://event.on24.com/wcc/r/2472825/6B99AFFE78D29C44BFA8134FFD4F7B68
Wednesday - 5-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Stability and Protection Paper Forum #2 (paper 480-1433)	https://event.on24.com/wcc/r/2462821/10CC97EB93A377804AF2FA2603DD9BE5
Wednesday - 5-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Stability and Protection Paper Forum #2 B (paper 1435-1963)	https://event.on24.com/wcc/r/2472876/D27CE16CF33441DE63D65DA6AD2FD385
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Recent power system activities in Europe	https://event.on24.com/wcc/r/2462216/1C8D2DBA1AA1D5747175D8CF48A8119D
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Research and Educational Experiences of NSF CAREER Awardees in Power Systems	https://event.on24.com/wcc/r/2462210/65450D628ADD3BD97248CC54A088B586
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Teaching Power Engineering in the COVID-19 Era: Quebec's and Canada's Experience in Remote Power Engineering Teaching Delivery	https://event.on24.com/wcc/r/2462769/83EE70106335E16A0CD3D4D33B513A88
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	The Role of DMS/ADMS in Mitigating Anomalous Distribution Grid Operations	https://event.on24.com/wcc/r/2462215/A28646385192751212D78CA261D6716E
Wednesday - 5-Aug	8:00 AM	10:00 AM	Panel Session	Utilities' View, Experience and Benefits from Real-Time Simulation and Hardware-in-the-Loop	https://event.on24.com/wcc/r/2462212/D08BC25ADED418ECBD16FEA8A91D5F75
Wednesday - 5-Aug	8:00 AM	12:00 PM	Panel Session	Utilizing distribution system assets and DER for transmission system voltage stability	https://event.on24.com/wcc/r/2462214/2E647B38982D2A995104712B295D1D36
Wednesday - 5-Aug	9:00 AM	1:00 PM	Panel Session	Synchronized Point-on-wave measurements: Technology, Requirements, and Applications	https://event.on24.com/wcc/r/2462770/152701B042A55C96AC4D5A2AC305309F
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Integrating Electric Storage Resources and Hybrid Resources in Electricity Market Operations	https://event.on24.com/wcc/r/2462778/AABCD7DAE81A4DC9CC6F75D933C2A308
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Intelligent Demand-Side Management in Consumer-Centric Energy Systems	https://event.on24.com/wcc/r/2462779/F6952972E090BDAFE785328B9B93F651
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Methodologies and Technologies for Knowledge Discovery from Wide Area Monitoring Protective and Control Systems	https://event.on24.com/wcc/r/2462772/4F909A87668A5A8AD31084CAEFC20C70
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Modern Heuristic Optimization for Distribution Systems	https://event.on24.com/wcc/r/2462774/22E4C0B1751AAEA9BCD6D64B2F611DF2
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Providing Grid Flexibility from Buildings: Overview, Analytics, and Optimization	https://event.on24.com/wcc/r/2462776/AF36A3A7130EAADD15F71EC50F2B0338
Wednesday - 5-Aug	10:00 AM	12:00 PM	Panel Session	Solar Photovoltaic System Design and Grid Interconnection	https://event.on24.com/wcc/r/2462777/DED13D6A62D2541E5A3A5428FD241940
Wednesday - 5-Aug	11:00 AM	1:00 PM	Panel Session	Transactive Energy Ecosystem for Smart Buildings, Loads, and Customer Systems	https://event.on24.com/wcc/r/2462783/35CAF176AC3E97344AE05CD9F56AE101
Wednesday - 5-Aug	11:30 AM	12:30 AM	Panel Session	Student Industry Faculty Panel	https://event.on24.com/wcc/r/2472735/FBA4102A178F8B6B80B2FCA872E806AB
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Architecture for DER Integration	https://event.on24.com/wcc/r/2462789/9A58F308B9341A2CC5121303CDD333AC
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Cybersecurity for Distributed Energy Resources (DERs)	https://event.on24.com/wcc/r/2462799/4E2A0385CBF9304EE60450D0F3848661
Wednesday - 5-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Distribution Operation, Planning and Load Side Analysis 2	https://event.on24.com/wcc/r/2462830/A9AF45CCEA9DBD15BB41C6D8A271F753
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Emerging Technology 2025	https://event.on24.com/wcc/r/2462800/A8CFCC4C15A7D7231AD70A775F4E13B5
Wednesday - 5-Aug	1:00 PM	5:00 PM	Paper Forum	Energy Markets Paper Forum	https://event.on24.com/wcc/r/2462827/DABBFC88EA56F94B06E131D2C25B308E
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Energy Storage Systems and Design for Handling Intermittent Wind and Solar Power Generation	https://event.on24.com/wcc/r/2462787/BEAC0B91CA2C6526F0F874D4363B2DC5
Wednesday - 5-Aug	1:00 PM	5:00 PM	Panel Session	Energy Systems Integration	https://event.on24.com/wcc/r/2531160/67A921DD0A16585395C4FF4FEF24363E
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Integration and Operation of Networked Microgrids for Resilient Distribution Grid	https://event.on24.com/wcc/r/2462790/8098CF22D8AAEE3EA666AD2D388C1946

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Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Novel ICT Infrastructure Developments to Enable Increased TSO-DSO Business and System Related Interaction	https://event.on24.com/wcc/r/2462784/D154BFC2D38B4B98A40EEB33BD66F5A8
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Novel Interdisciplinary Approaches for Power and Energy Research and Education	https://event.on24.com/wcc/r/2462786/9A4D0B3DFBF7CD243C8F5F8C34EA14A5
Wednesday - 5-Aug	1:00 PM	5:00 PM	Paper Forum	Power System Modeling and Analysis Paper Forum #2 (Paper 1164-1654)	https://event.on24.com/wcc/r/2462829/E544C497D603A00DE6DB38F4B5876076
Wednesday - 5-Aug	1:00 PM	5:00 PM	Paper Forum	Power System Modeling and Analysis Paper Forum #2 B(Paper 1700-1961)	https://event.on24.com/wcc/r/2472830/B4117CBA9162B35018BC67C977140E1D
Wednesday - 5-Aug	1:00 PM	5:00 PM	Panel Session	Recent experiences and lessons learned in designing, operating and integrating hybrid and virtual power plants	https://event.on24.com/wcc/r/2462795/287778713DDF18DDE417BD1A6950D997
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Signatures of Equipment Failures - Application of Power Quality Data Analytics to Equipment Condition Monitoring	https://event.on24.com/wcc/r/2462785/FBE1760970840DA6EF891B884093271F
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	The Case for Greater Electric Grid Integration in the Northeast of North America – a Decarbonization Opportunity	https://event.on24.com/wcc/r/2462788/AD3207BF3EB2DB6C5A51726DD4A40429
Wednesday - 5-Aug	1:00 PM	3:00 PM	Panel Session	Time-Varying and Interlaced Harmonics: Nature, Visualization and Practical Implications	https://event.on24.com/wcc/r/2462797/D1D0477642510AB2E8C846C73408F993
Wednesday - 5-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Transmission and Distribution 1	https://event.on24.com/wcc/r/2462832/B574187A083FE61C1DB261532BFF3E0E
Wednesday - 5-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Transmission and Distribution 2	https://event.on24.com/wcc/r/2462833/D8DBFA34E4F84611F63D76B27604C586
Wednesday - 5-Aug	2:00 PM	4:00 PM	Panel Session	Coping with the impact of Covid-19 on the development of renewable energy	https://event.on24.com/wcc/r/2462804/C447B8929342222674F3A517EA73934B
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Advances on Systems Engineering Frameworks of Smart City and Intelligent Grids	https://event.on24.com/wcc/r/2462814/084BB3BFC3FCB68E311586FA5FA641A4
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Cloud computing applications for power systems	https://event.on24.com/wcc/r/2462806/11472D768CED0EB8EB877A6769EF408B
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Control Approaches of Inverters in Restorative States	https://event.on24.com/wcc/r/2462816/35BE5646BE4E430CAC49AB4558769EE6
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Fuel cells: From Hydrogen Fuel Production from Renewable Energy to DG Applications and Control	https://event.on24.com/wcc/r/2462809/1F8110ACF3B2A6D61CAC6F2A3A67A591
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Hosting Capacity Assessment with Advanced Inverter Functions	https://event.on24.com/wcc/r/2462815/E554E8180C84105A28CE6D8D1555E92C
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Market Design Evolution to accommodate 100% Zero-variable-cost Resources	https://event.on24.com/wcc/r/2462813/67AA623262F1121C47AD5038352AE8F3
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Research and Education in Distribution Management System with DERs for Resilient Grid	https://event.on24.com/wcc/r/2462807/CB4F08CCE0A6D68E0E7877EAE3DD5BE1
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Sharing experiences and results on open data sets for intelligent applications	https://event.on24.com/wcc/r/2462805/2C6BCA83E412C0B50ACF0A36A8A70E19
Wednesday - 5-Aug	3:00 PM	5:00 PM	Panel Session	Voltage Control and Low and High Voltage Ride-Through of Wind and Solar Photovoltaic Systems	https://event.on24.com/wcc/r/2462812/E1EC9E511DF1257D652CB2471EAACB16
Wednesday - 5-Aug				Women in Power, to Power the Sustainable Development	https://event.on24.com/wcc/r/2515091/6A165AB776F9BC40EB998FB8AEDAF3D1
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Addressing Computational Challenges in Power System Planning	https://event.on24.com/wcc/r/2462007/5CCD368887DEA3158606D94B78BF82D2
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Application of Machine Learning in Emergency Control for Resilient System Operation	https://event.on24.com/wcc/r/2462008/9C02EAC7369200E05E84F71DBA1DA0E0
Thursday - 6-Aug	8:00 AM	12:00 PM	Panel Session	Big Data and Machine Learning Applications in Power Systems	https://event.on24.com/wcc/r/2461992/50326314E5AA4C3065307D20E3D77A54
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Challenges With Hosting Capacity Analysis In Distribution Networks	https://event.on24.com/wcc/r/2462001/CD467987CC1CE7EDD8BDF6712DD28C3E
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Cybersecurity in Grid Modernization – Challenges and Opportunities from a Canadian Perspective	https://event.on24.com/wcc/r/2462009/291B41165F48655F46B3E15A9E91A788
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Data-Quality Aware Synchrophasor Applications	https://event.on24.com/wcc/r/2462004/5BFBDB20E74DF4540FA2BDFCE5DC5F93
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Defining MicroGrids	https://event.on24.com/wcc/r/2462012/2105F76CDE7265949039D8E09645AA63
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Distribution System State Estimation Applications for Achieving a More Resilient Distribution System	https://event.on24.com/wcc/r/2461997/97F53B4F0C90691AB6A7A2C2B9865B88
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Education and Research of Data Science for Power Systems	https://event.on24.com/wcc/r/2462002/7E6CCD2B45D3468F313882A007305D16
Thursday - 6-Aug	8:00 AM	12:00 PM	Panel Session	Impact of uncertainties on dynamic security assessment	https://event.on24.com/wcc/r/2462011/F1BAA9CDB88FD81DDECA9F4CBBB33EFB

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Thursday - 6-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Power System Dynamic Performance 1	https://event.on24.com/wcc/r/2462072/285E93A2C0D0B40F32D54495620935B2
Thursday - 6-Aug	8:00 AM	12:00 PM	Transactions Paper Session	Power System Dynamic Performance 2	https://event.on24.com/wcc/r/2462073/63A79AEF618CA8EE5BDD387DAD8F5F8F
Thursday - 6-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Operations Paper Forum #3 (paper 460-1348)	https://event.on24.com/wcc/r/2462070/27EFB520B067A22F3CFCFFE8E3FE7CB9
Thursday - 6-Aug	8:00 AM	12:00 PM	Paper Forum	Power System Operations Paper Forum #3 B (paper 1387-1900)	https://event.on24.com/wcc/r/2472871/36F1FE1EB8EE8C9C85F11E9229A07B48
Thursday - 6-Aug	8:00 AM	10:00 AM	Panel Session	Practical Experiences in Grid Reliability and Risk Management	https://event.on24.com/wcc/r/2461999/579EDB3265A8A2D4C56790ADAB91E9C5
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Advances in the modelling of Geomagnetic disturbances	https://event.on24.com/wcc/r/2462023/F1E70ECCBD11ADFE2322A7ECF91BB2C8
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	AI and VR applications for Power and Energy Systems Research and Education	https://event.on24.com/wcc/r/2462017/0B244A780F6B626833ADD9746DCB84E5
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Humanitarian Project and Technologies	https://event.on24.com/wcc/r/2462018/E78270C04D5C7F5661773B80F4233F05
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Machine Learning Applications to Energy Forecasting and Analytics	https://event.on24.com/wcc/r/2462024/DB8C15C7629D8A88363B1E1DDDC42E5E
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	New Trends with Integrations of Distributed Energy Resources	https://event.on24.com/wcc/r/2462025/B5309581A69D76005DC7AB305DD1E644
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Recent Advances in Optimal Power Flow Methods for Realistic Power Distribution Networks	https://event.on24.com/wcc/r/2462043/0CBF615FC55384C8BC7229B20C457D89
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Smart grid for smart city recommendation and guidelines (Session 1)	https://event.on24.com/wcc/r/2462044/AF55602E37E6F848C3B5F2E15A621055
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	The Impacts that Distributed Energy Resources are Having on Bulk Power System Planning and Operations	https://event.on24.com/wcc/r/2462042/6853DC3415378B1C7474FC37D6A046A8
Thursday - 6-Aug	10:00 AM	12:00 PM	Panel Session	Transform Grid Planning and Operation Now with Cloud Computing	https://event.on24.com/wcc/r/2462020/1A07CA13E3E24CE0EEA062FDC6CB0499
Thursday - 6-Aug	1:00 PM	3:00 PM	Panel Session	Analytical tools for Integration of Energy Storage Systems	https://event.on24.com/wcc/r/2462058/4C11A1D032EB768D283605B16C536B06
Thursday - 6-Aug	1:00 PM	5:00 PM	Panel Session	Asian and Australasian Innovative Contribution to Smart Grid Technology (Session 2)	https://event.on24.com/wcc/r/2462050/74A1CE53314B0C9E18085207B56BDC77
Thursday - 6-Aug	1:00 PM	5:00 PM	Panel Session	Bulk Power System Oscillations – Identification, Location, and Mitigation	https://event.on24.com/wcc/r/2462048/18E6E22B32D5FB2F7CB73B3F7275DAD8
Thursday - 6-Aug	1:00 PM	3:00 PM	Panel Session	Cross-Border Energy Integration: Studies On Latin America And The World	https://event.on24.com/wcc/r/2462055/6A8A5DE7702F6E9448C14AD584004E64
Thursday - 6-Aug	1:00 PM	3:00 PM	Panel Session	Data-Driven Approach for Power System Probabilistic Analysis	https://event.on24.com/wcc/r/2462051/57A37A42F5E4A13FDD9DAEA4DA04C641
Thursday - 6-Aug	1:00 PM	3:00 PM	Panel Session	Numerical challenges in multi-energy simulations	https://event.on24.com/wcc/r/2462049/26EB3E00E286E8C4759E50B8690848B9
Thursday - 6-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Power System Economics and Analysis	https://event.on24.com/wcc/r/2462076/1664DAFE6303A817B3C107A0ACB40ED8
Thursday - 6-Aug	1:00 PM	5:00 PM	Transactions Paper Session	Renewable and Storage	https://event.on24.com/wcc/r/2462075/354277D7CDBDE0321DC6864211306CA
Thursday - 6-Aug	1:00 PM	5:00 PM	Panel Session	Transmission Planning in a World of Increasing Uncertainties	https://event.on24.com/wcc/r/2462056/8FD9097E736A02C573EE3D76255F8E5B
Thursday - 6-Aug	3:00 PM	5:00 PM	Panel Session	Joint State and Parameter Estimation for Distribution System with High Penetration of DERs	https://event.on24.com/wcc/r/2462059/607EEFAAC94B90493EF45C998772EFEA
Thursday - 6-Aug	3:00 PM	5:00 PM	Panel Session	Observability and controllability of power distribution system in big data era	https://event.on24.com/wcc/r/2462063/13421A38862D4AF4620A0F9792FC8584
Thursday - 6-Aug	8:00 AM	8:00 AM	Panel Session	Panel on Water Power Generation – Hydropower and Marine Hydrokinetic	https://event.on24.com/wcc/r/2461991/58EE2168219DB8CBCF0CF88B686F683F