

2023 Generation Flexibility Conference

July 24-28, 2023

Hybrid Event: Virtual and In-Person
Charlotte, NC

DAY 1, JULY 24, 2023

TIME	TOPIC	PRESENTER
Eastern	<i>Plenary Session</i>	Session Chair: Stephen Storm, EPRI
10:00 a.m.	Welcome Safety High Level Introduction	Stephen Storm
10:15 a.m.	A flexible future – Meeting the Challenge	Mike Caravaggio, EPRI
10:45 a.m.	Success Stories of Conventional Power Plant Flexibility	Nikhil Kumar, Intertek
11:30 p.m.	Plenary: Questions and Answers	
12:00 p.m.	Break	
12:00 p.m.	Meeting Adjourned	
	Session-1: Flexible Fleet Management	Session Chair: Grant Lanthorn, EPRI
3:00 p.m.	Duke Energy Fleet Analysis and Flex-Program Updates	Stephen Dean, Duke Energy
3:30 p.m.	Evergy Flexibility Program Update	Shawn Duryea, Evergy
4:00 p.m.	SaskPower Flexibility Case Study	Robin Kok, UMS Group Zuri Epp, SaskPower Karl Bindmann
4:30 p.m.	Petrobras Flexibility Assessment Case Study	Stephen Storm, EPRI Julio Cezar Paulin, Andre Schmidt, Petrobras
5:00 p.m.	Session-1: Questions and Answers; Adjourn	

Day-1, Informal Breakout Session for In-Person Attendance (1:15 – 2:45pm)

For full event details: <https://cvent.me/yzmnz2>

DAY 2, JULY 25, 2023

TIME	TOPIC	PRESENTER
Eastern	<u>Session-2: Instrumentation and Controls for Flexibility</u>	Session Chair – Steve Seachman, EPRI
10:00 a.m.	Adaptive Predictive Expert Control Optimizer Use Cases	<i>Miguel Gillis, ADEX</i>
10:30 a.m.	Advanced Optimization Systems	<i>TBD, Utility Perspective Jake Tuttle, Tabor International</i>
11:00 a.m.	Optimizing Electric and Water Grid Coordination under Technical, Operational, and Environmental Considerations	<i>Nalini Rao, EPRI</i>
11:30 a.m.	Combined Cycle Flexible Operation via Thermal Energy Storage Integration	<i>Dr. Stefano Barberis, University of Genoa</i>
12:00 p.m.	Break	
	<u>Session-3: Instrumentation and Controls for Flexibility</u>	Session Chair – Steve Seachman, EPRI
3:00 p.m.	Advanced Process Control and Sequential Automation Demonstration Update	<i>Charles Boohaker, Southern Company Neil Ronan, Provecta Process Automation</i>
3:30 p.m.	CC Advanced Attenuation Case Study Update	<i>Alec Hunnicutt, Constellation Neil Ronan, Provecta Process Automation</i>
4:00 p.m.	Process Control to Improve Primary Frequency Response	<i>Moritz Hubel and Pieter Dermont, Modelon Don Parker, Provecta Process Automation</i>
4:30 p.m.	Session 3: Questions and Answers	
5:00 p.m.	<i>Adjourn</i>	

Day-2, Informal Breakout Session for In-Person Attendance (1:15 – 2:45pm)

For full event details: <https://cvent.me/yzmznz2>

DAY 3, JULY 26, 2023

TIME	TOPIC	PRESENTER
Eastern	<u>Session-4: Gas Turbine Flexibility</u>	Session Chair – Lenny Angelo, EPRI
10:00 a.m.	GE 7.04 UPGRADE – DLN2.6+ with Axial Fuel Staging (AFS) and Over Board Bleed Air (OBB) for Improved Turndown	George Mathis, OPC
10:30 a.m.	GE 7.03 UPGRADE - Purge Credit for Faster Start Capability	Adam Ball, LG&E-KU
11:00 a.m.	Siemens V84.3A UPGRAD-CMF+ for increased Peak Capacity	Scott Crise, AECI
11:30 a.m.	GE 7.03 to 7.05 UPGRADE- Advanced Gas Path (AGP) for Increased Capacity and Improved Heat Rete	David Biruk, JEA
11:45 a.m.	Session 4: Questions and Answers	
12:00 p.m.	Break	
	<u>Session 5: Tools for Managing Flexibility</u>	Session Chair – Stephen Storm, EPRI
3:00 p.m.	Smart alarms as tools for improving cycle chemistry during start-ups.	Dan Dixon, EPRI Evan Grimm
3:30 p.m.	Tools for Managing Generator Flexibility	Bill Moore, EPRI
4:00 p.m.	20 Years of Steam Turbine Flexible Operation - Lessons Learnt and Best Practices	C. Chitic-Foldi, EPRI
4:30 p.m.	Session 5: Questions and Answers	
5:00 p.m.	<i>Adjourn</i>	

Day-3, Informal Breakout Session for In-Person Attendance (1:15 – 2:45pm)

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DAY 4, JULY 27, 2023

TIME	TOPIC	PRESENTER
Eastern	<u>Session-6: Boiler/HRSG Flexibility</u>	Session Chair: Kent Coleman, EPRI
10:00 a.m.	High-Level Flexibility Assessment and Boiler Performance Interrelationships at Milmerran Generating Station	Stephen Storm, EPRI Andrew Hassal, Millmerran
10:30 a.m.	Low Carbon Fuel Solutions: Approaches to Recent EPA Greenhouse Gas Rule and Zero-Carbon Fuels	Marc Lemmons, EPRI
11:00 a.m.	Implementation of an Integrated Boiler Life Management Program.	Stan Rosinski, EPRI
11:30 a.m.	Session 6: Questions and Answers	
12:00 p.m.	Break	
	<u>Session 7: High Energy Piping</u>	Session Chair – Tom Sambor
3:00 p.m.	Effect of HRSG Flexible Operation on CRH Piping Temperatures – Case Studies	Eugene Eagle, Duke Energy
3:30 p.m.	Attemperator Challenges at Milmerran (TBD)	Tom Sambor, EPRI Andrew Hassall, Millmerran
4:00 p.m.	Flexible Operation and Damage to Bypass Valves and Downstream Piping	Tom Sambor, EPRI Eugene Eagle, Duke Energy
4:30 p.m.	Session 7: Questions and Answers	
5:00 p.m.	Adjourn	

Day-4, Informal Breakout Session for In-Person Attendance (1:15 – 2:45pm)

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DAY 5, JULY 28, 2022

TIME	TOPIC	PRESENTER
	<u>Session 8: Flexibility R&D</u>	Session Chair – Stephen Storm
10:00 a.m.	Program 223 R&D Vision – “ <i>Past, Present, Future</i> ”	Stephen Storm, EPRI
10:20 a.m.	Offline Chemistry Management R&D (Steam turbine focus)	Dan Dixon, EPRI
10:40 a.m.	Steam Turbine Bypass Valve Optimization R&D Project R&D	Keith Paul, Tom Sambor, Steve Seachman
11:00a.m.	P-223 Flexibility Fleet Optimization - R&D Update	Grant Lanthorn, EPRI
11:30 a.m.	Session 8: Questions and Answers; Round-Table	
12:00 p.m.	<i>Adjourn</i>	

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