



2024 Fall General Meeting

October 17th – 18th, 2024

Hosted by UNC Charlotte

Location: Popp Martin Student Union Bldg., Room 340 (Sections A-I)
(Eastern Time)

Theme: “Designing Resiliency Into the Grid”

Agenda

<u>Thursday,</u> <u>October 17th,</u> <u>2024</u>	Industry Advisory Meeting	
8:00 am	CLOSED MEETING- IAB Members Meeting Open to all attendees of companies that are Industry Members of CAPER	Becca Rye Dominion Energy CAPER IAB Chair
	IAB Business items	
9:00 am	Meeting adjourned	
<u>Thursday,</u> <u>October 17th,</u> <u>2024</u>	General Meeting	
9:00 - 9:30 am	Registration	
9:30 - 9:45 am	Welcome, Safety, and Objectives of the Conference	Drew Clarke Duke Energy CSC Chair & Facilitator
	Plenary Session - Reliability and Resiliency	Rob Cox UNC Charlotte EPIC & CAPER Center Director
9:45 - 10:15 am	Balancing the Pace of Change while Designing Resiliency into the Grid	Nelson Peeler Duke Energy
10:15 - 10:30 am	Plenary Session Q&A	
	Session I – Generation Resilience	Becca Rye Dominion Energy CAPER IAB Chair

10:30 - 10:50 am	Strategies for Resilient Energy Supply Chains	Jim McClay Duke Energy (Virtual)
10:50 - 11:10 am	Coastal Virginia Offshore Wind Overview	John Larson Dominion Energy
11:10 - 11:30 am	Session I Q&A	
11:30 - 11:45 am	PD-05: Inertia Estimate Using Synchrophasor Measurements	Ramtin Hadidi Clemson/UNCC CAPER Co-Director
11:45 am - 12:00 pm	MRA-02-PD: Impacts of Managed Charging and Other Innovative Rates for Electric Vehicle Charging on Utility Load and the Grid System	Peter Schwarz UNCC/NCSU
12:00 - 12:45 pm	WORKING LUNCH - Find a table and discuss CAPER 2025 Research Proposal Solicitation topics to consider.	
	Session II - Metrics and Impacts	Valentina Cecchi UNC Charlotte
12:45 - 1:05 pm	Power system resilience quantification — from pre- and post-event perspectives	Weijia Liu / NREL (Virtual)
1:05 - 1:25 pm	How regulators and consumer advocates view resilience and reliability	Jeff Thomas, NC Public Staff, NC Utilities Commission
1:25 - 1:40 pm	Session II Q&A	
1:40 - 1:55 pm	EHP-09-PG: DER Protection Guidelines and Settings	Mesut Baran Clemson/NCSU
1:55 - 2:15 pm	BREAK	
	Session III - Transforming Grid	Ramtin Hadidi Clemson University CAPER Co-Director
2:15 - 2:35 pm	Generation Resilience	Michael Caravaggio EPRI
2:35 - 2:55 pm	Distribution Microgrid	Chris Clippinger, POWER Engineers
2:55 - 3:10 pm	Session III Q&A	
3:10 - 3:25 pm	PD-06: A Machine Learning based Automated Load Model Parameterization Tool	Ning Lu NCSU/Clemson

		CAPER Co-Director
3:25 - 3:40 pm	MRA-01-PD/EHP-10-PD: Improving Power Flow Performance for IVVC Application on NC Distribution Feeders with DERs	Valentina Cecchi UNCC/NCSU
	Session IV - CAPER Sponsored Sr. Design Project	Drew Clarke Duke Energy CSC Chair & Facilitator
3:40 - 4:00 pm	Clemson Team	Ramtin Hadidi
4:00 - 4:20 pm	UNC Charlotte Team	Rob Cox
4:20 - 4:40 pm	NC State Team	Mesut Baran
4:40 - 5:00 pm	WCU Team	Bora Karayaka
5:00 - 7:00 pm	Reception & Career Fair (CAPER & EPIC Affiliates) - Poster Session - Senior Design, Base & Enhancement Projects	
<u>Friday, October 18th, 2024</u>	General Meeting	
8:00 - 8:30 am	Registration	
8:30 - 8:45 am	Highlights from yesterday and objectives for today	Drew Clarke Duke Energy CSC Chair
	Session V – Preparing for Resiliency from History	Kat Sico Duke Energy CAPER IAB Vice-Chair
8:45 - 9:05 am	Dominion Energy Transformer GIC Field Test	Adedasola “Dasola” A. Ademola Dominion Energy VA
9:05 - 9:25 am	Weather Occurrence Initiatives - Hurricane Flooding Mitigation	Mike Sykes Duke Energy
9:25 - 9:45 am	Dominion Energy and the Solar Eclipse: April 8, 2024	Kevin Quigley Dominion Energy

9:45 - 10:10 am	Session V Q&A	
10:10 - 10:30 am	BREAK	
	Session VI – New Technologies and Strategies	Ning Lu NC State University CAPER Co-Director
10:30 - 10:50 am	Planning for Resilience	Jesse Bukemberger/EPRI (Virtual)
10:50 - 11:10 am	Non-Traditional Solutions for Increasing Resiliency	Brant Werts Duke Energy
11:10 - 11:30 am	Hardware Based Security Detection in Industrial Control Systems	Jeremy Lawrence EPRI
11:30 - 11:50 pm	Session VI Q&A	
11:50 am - 12:00 pm	Closing and Next Meeting – March 2025 hosted by Clemson University (Charleston Location)	Drew Clarke Duke Energy CSC Chair
12:00 pm	Meeting adjourned	