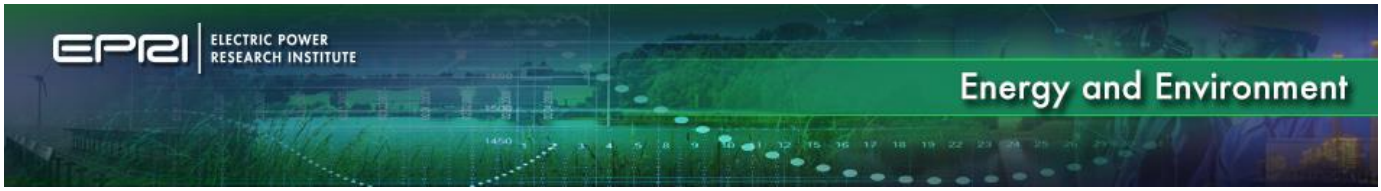

Climate Change Vulnerabilities of and Adaptation Strategies for New York State's Future Electric System

Project Stakeholder Workshop

Tuesday May 16, 2017

SUNY Global Center – 116 E 55th St, New York, NY

The purpose of this workshop is to bring key stakeholders together to raise awareness of the project, ensure that research is designed to produce results that are useful to decision makers, and facilitate communications and a common understanding between NY utility members, NYSERDA and other NY officials, and stakeholders of electric system climate vulnerabilities and adaptation strategies.

TUESDAY MAY 16, 2017		CONFERENCE ROOM: GLOBAL CLASSROOM
TIME	**TOPIC**	**PRESENTER**
9:00 a.m.	Registration and light breakfast	
9:30 a.m.	Welcome, introductions, and overview	Delavane Diaz, EPRI David Hunter, EPRI
Session 1 – Setting the Scene: Perspectives on Climate Resilience		
10:00 a.m.	Addressing the climate threat in NY DOE Partnership for Energy Sector Climate Resilience	Amanda Stevens and Schuyler Matteson, NYSERDA Craig Zamuda, DOE
10:45 a.m.	Break	
Session 2 – Project Overview		
11:00 a.m.	Project description Technical approach and research activities	Delavane Diaz, EPRI Stephen Shaw, SUNY-ESF David Young, EPRI Mary Collins, SUNY-ESF
12:00 p.m.	*Working lunch (provided)*	
Session 3 – Utility Panel		
12:45 p.m.	Climate resilience research needs and industry perspectives on project outcome	Bill Gould, EPRI *moderator* AVANGRID - Art Kruppenbacher Con Edison - William Slade Eastern Gen - John Reese National Grid - Greg Ryder NYPA - John Kahabka DOE - James Bradbury
2:15 p.m.	Break	
Session 4 – Stakeholder Input		
2:30 p.m.	Facilitated discussion around project and research design	Delavane Diaz, EPRI
3:15 p.m.	Closing and wrap up	Delavane Diaz, EPRI
3:30 p.m.	Adjourn	

Summary

The Electric Power Research Institute (EPRI) is leading a two-year project to assess the vulnerability of New York State's electric system to a changing climate and analyze the role of various system-level adaptation strategies, taking into account the transition to a decarbonized electric grid and other socioeconomic drivers. This assessment will use a new NY-focused version of EPRI's U.S. Regional Economy, Greenhouse Gas, and Energy model (US-REGEN), a detailed electric sector optimization model, to model the performance of the electricity system under different climate conditions through 2050. Specifically, we will evaluate future climate impacts as characterized in the NY ClimAID assessment on the NYS electric system through the following climate impact pathways: 1) increased air temperature on thermal generation; 2) increased water temperature on thermal generation; 3) changes in water availability on thermal generation; 4) changes in water availability on hydro generation; 5) increased air temperature on transmission efficiency; and 6) increased air temperature on electricity demand. The project results will help policymakers and electricity planners assess system performance, vulnerabilities, and generation fleet adaptation strategies under a future climate, and, by informing the efficient deployment of large capital investments, help design an electricity system for NYS that is resilient to climate change, meets policy objectives, and keeps electricity rates down.