

Message

From: Smith, Wil [wsmith@epri.com]
Sent: 11/14/2017 5:39:33 PM
CC: Hunter, David [DHUNTER@epri.com]
Subject: Understanding Impacts of High Renewable Penetration: An EPRI, DOE, NREL, EPA, EIA Multi-Model Exploration
Attachments: Agenda EPRI DOE NREL EIA EPA Renewable Scenarios Modeling.pdf

Dear Colleague,

Please find attached the agenda for the December 12th Electric Power Research Institute (EPRI) Washington Seminar, “*Understanding Impacts of High Renewable Penetration: An EPRI, DOE, NREL, EPA, EIA Multi-Model Exploration*”. Speakers from each of these organizations will present results and offer insights from a study of high-penetration variable renewable energy scenarios using each organization’s own model. The seminar will take place Tuesday, December 12th, 2017, from 8:30 am to 1:15 pm at the The Capitol Hilton, 1001 16th ST NW, Washington DC. Lunch will be provided. ***Please RSVP to Wil Smith (wsmith@epri.com) if you have not already done so.***

Wind and solar deployment in the United States has grown at unprecedented rates in recent years. Over the past decade new capacity installations have been comprised almost solely of new wind, solar, and natural gas-based technologies. This growth and accompanying rapid technological progress have led operating wind capacity (82 GW) to surpass hydropower as the leading renewable technology on an installed capacity basis. Meanwhile new solar installation records (15 GW) were broken in 2016.

Whether this growth trajectory will continue is a key question for policy-makers and industry stakeholders. It is also a challenging question, given significant uncertainties surrounding competing technologies, demand growth, policies, and the degree of continued technology changes. U.S. power sector capacity expansion models are widely used to navigate this uncertainty and inform policy making, investment decisions, technology assessments, and evaluations of drivers and impacts of electric sector evolution.

Capacity expansion models represent a complex power system over long time-scales, typically decades. Doing so requires many simplifications. Tradeoffs between detail and computational tractability are required. The location-dependence, variability, and uncertainty of renewable energy add to the modeling challenges and, at high renewable energy penetrations, might call into question the validity of existing simplifications in the models.

To address these challenges, four national-scale capacity expansion modeling teams—from the Electric Power Research Institute, the Energy Information Administration, the Environmental Protection Agency, and the National Renewable Energy Laboratory—participated in a research project supported by the U.S. Department of Energy to compare modeling methods and results under high-penetration variable renewable energy scenarios.

This seminar will present findings and insights from the four modeling teams and Department of Energy. Speakers will discuss insights into high-penetration renewable scenarios and the strengths, limitations, and opportunities from the four capacity expansion models used. These findings will help analysts, policy-makers, and stakeholders better understand and interpret results from these modeling tools.

Tuesday, December 12, 2017
Seminar: 8:30 am – 1:15 pm
Lunch will be provided
The Capitol Hilton, 1001 16th ST NW, Washington DC
RSVP to: wsmith@epri.com
Name, Title, and Company

Please RSVP to Wil Smith, wsmith@epri.com.

We hope to see you there.

David

David E. Hunter, Ph.D.

Sr. Government and External Representative

Electric Power Research Institute

1325 G ST NW Suite 1080

Washington, DC 20005

Tel: (m)

Fax: 202-293-6187

Email: dhunter@epri.com

*** This email message is for the sole use of the intended recipient(s) and may contain information that is confidential, privileged or exempt from disclosure under applicable law. Unless otherwise expressed in this message by the sender or except as may be allowed by separate written agreement between EPRI and recipient or recipient's employer, any review, use, distribution or disclosure by others of this message is prohibited and this message is not intended to be an electronic signature, instrument or anything that may form a legally binding agreement with EPRI. If you are not the intended recipient, please contact the sender by reply email and permanently delete all copies of this message. Please be advised that the message and its contents may be disclosed, accessed and reviewed by the sender's email system administrator and/or provider. ***