

Seminar Series



Join us the second Thursday of every month for a series of seminars, sponsored by the National Renewable Energy Laboratory and the U.S. Department of Energy (DOE). Each seminar is held at NREL's Washington, D.C., office or in Golden, Colorado. Topics focus on new and innovative renewable energy and energy analysis strategies, models, and technologies.



Web Access and Call-In Information

Log-In Info

URL for log-in:

<https://www.mymeetings.com/nc/join/>

Conference Number: SA306396
(no passcode is needed)

You also can join the event directly at

<http://www.mymeetings.com/nc/join.php?i=SA306396>

Call-In Info

To call in: 1-877-989-1543
Passcode: 8864359



Measuring the Capacity Value of Demand Response

A seminar presented by DOE/EERE's Office of Planning, Budget, and Analysis; and NREL's Strategic Energy Analysis Center

Robert Earle (vice president) and Edo Macan (manager)
Analysis Group

Thursday, October 8, 2009

10 a.m. – 11:00 a.m. (Golden, Colo.)

Noon – 1:00 p.m. (Washington, D.C.)

(The seminar is also offered via conference call or Internet conferencing.

See the log-in and call-in information below. **An RSVP is required to ensure that we have enough phone lines and/or seats. The presenters will be in Golden, Colorado.)**

Critical peak electricity pricing and peak-time rebate programs are two forms of "demand response" that are increasingly part of the policy agenda in the United States. Similar to other types of demand response (changing the level of demand during peak periods), much of the programs' value comes from the capacity benefits they provide by avoiding the need to build new peaking power plants. Using a simulation of the California Independent System Operator System (CAISO) system, analysts have shown that these benefits decrease substantially as the size of the programs grows relative to the system size. During this seminar, Robert Earle and Edo Macan (Analysis Group) will discuss how more flexible schemes for deployment of demand response can help address the decreasing returns to scale in capacity value; but how more flexible demand response has decreasing returns to scale as well. One concern about demand response programs is that the response can be variable or unreliable and, therefore, the capacity impacts disappear. They will also discuss the results of the simulation, which show that variability of response does not have a large impact on capacity value.

Robert L. Earle is a vice president at Analysis Group. He has extensive experience in the energy and utilities industries including integrated resource planning, transmission tariff design, retail rate design, demand response, and renewables.

Edo Macan is a manager at Analysis Group. He provides economic and management consulting to the energy industry, with a focus on electric utility operations, finance, and risk management.



Robert Earle



Edo Macan

Golden, Colorado, information

**1617 Cole Blvd., Golden, Colorado
Building 3, Conference Room 170.**

**Please contact Kalia Kehoe at
kalia_kehoe@nrel.gov or 303-384-7439**

Washington, D.C., information

**901 D Street SW or 370 L'Enfant Promenade
(adjacent to the Forrestal Building). Ninth Floor.**

**Please contact Wanda Addison, of
Midwest Research Institute (MRI), at
wanda_addison@nrel.gov or 202-488-2202**

For more information on NREL analysis, please visit

www.nrel.gov/analysis