

**CCSF Lunch Summary**  
**Distributed Energy Systems Research for a Low Carbon Economy**  
**December 15, 2008**

**Attendees**

Host - Max Zhang, kz33  
Host - Tim Mount, tdm2  
Host - Bob Thomas, rjt1  
Frank DiSalvo, fjd3  
Helene Schember, hrs6  
David Dieterich, dd355  
Zellman Warhaft, zw16  
Dan Roth, dnr6  
Kieran Donaghy, kpd23  
Chuck Greene, chg2  
David Hammer, dah5  
David Filiberto, dmf22  
Terry Jordan, tej1  
David Caughey, dac5  
Dean Koyanagi, drk5  
Dick Schuler, res1

Alan McAdams, akm3  
Ray Zimmerman, rz10  
Lindsay Anderson, cla28  
Wesley Sine, wds4  
Carlos Murillo-Sanchez, cem14  
Betta Fisher(Elizabeth), emf4  
Fred Gouldin, fcg2  
Ben Ho, bth26  
William Lesser, whl1  
Jimmy Chang, cc434  
Antonio Bento, amb396  
Al George, arg2  
Steve Beyers, smb75  
Mark Lawrence, mal64  
Francis Vanek, fmv3  
David Lieb, djl5

**Regrets**

Bob Howarth  
Rick Almenginger  
Drew Harvell  
Larry Brown  
Al Center  
Oliver Gao  
Tobias Hanrath  
Ying Hua  
Andrew Hunter

Sidney Leibovich  
Aija Leiponen  
Johannes Lehmann  
Mark Milstein  
Sidney Saltzman  
Elizabeth Sanders  
Jeff Tester  
Larry Walker  
Steve Wolf

**Summary**

The lunch meeting started with an introduction of the vision for a low carbon economy and the role of intelligent distributed energy systems (iDES) by Tim Mount. Then Max Zhang elaborated the components within the iDES, followed by a description of the research and education agendas for the iDES. Bob Thomas further introduced the smart grid concepts, a key enabling technology for iDES, and various initiatives within the Department of Energy on this subject. Next, the attendees introduced themselves and their potential contributions to an iDES program at Cornell.

The meeting ended with a strong consensus that the movement toward iDES has already started and that Cornell should play a large role in the transition. The iDES and the smart grid concepts will be able to bring together researchers with expertise in engineering, environmental studies, public affairs, and behavioral sciences. In addition, there is good potential to establish a smart grid demonstration project on campus in synergy with the Cornell carbon neutrality initiative, and within the Ithaca community (e.g., the Ithaca Car Share program).

There were several potential research topics (in addition to what the hosts presented) proposed by the attendees, including studies on infrastructure planning for the smart grids, linkage between the agricultural, the electric utility and the transportation sectors, emissions and environmental assessments for distributed energy generators. We plan to explore these topics with some focus groups in the New Year.