



Celebrating 125 Years
of Engineering the Future

Thursday
May 14



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
San Francisco Chapter Presents:

SmartGrid Evolution and the Role Standards will Play

DATE & TIMES

Thursday, May 14, 2009
12 p.m. – 1 p.m.

PLACE

Pacific Gas & Electric Office
77 Beale St.
Room 305
San Francisco

Check in with guard to verify
your name on IEEE PES list

INFORMATION

Closest BART Station is
Embarcadero

RSVP REQUIRED

RSVP by May 11, 2009 to:
John Joven
415-973-4873
JRJJ@PGE.COM

LUNCH

Free for IEEE members
\$5 for non-members
RSVP required

The Obama administration is intending to invest close to 45 billion dollars to address renewable energy and a future "Smart Energy Grid" that will reduce our dependence on foreign oil. An automated, widely distributed energy delivery network, the Smart Grid, will be characterized by a two-way flow of electricity and information and will be capable of monitoring everything from power plants to customer preferences to individual appliances. It incorporates into the grid the benefits of distributed computing and communications to deliver real-time information and enable the near-instantaneous balance of supply and demand at the device level.

Mr. Chris Knudsen will be discussing the "Smart Energy Grid" and what Pacific Gas & Electric Company (PG&E) is doing about it. He will provide insight as to how to think about the future of this project and what has been accomplished so far. He will also provide a road map related to the industry standards and technology that is required to address the challenges and gaps related to the future success of this project.

Chris Knudsen is currently the Director of the Technology Innovation Center at PG&E where he is responsible for developing new technologies to drive energy efficiency and SmartGrid evolution. Chris also chairs the Open SmartGrid committee under UCA.

Chris has over 20 years of communications technology development, networking, start-up, and senior management experience. He has designed, developed, and operated wireless hardware and systems ranging from a few MHz to 40 GHz. Areas of experience include wireless data networks, AMI systems, internet data, radar processing, telecommunications, wireless consumer products, and electronic intelligence systems for military applications.

	<p>Chris holds a Bachelor of Science in Electrical Engineering from the University of California at Davis and has completed work towards a Master of Technology Management at Santa Clara University.</p>
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