

# Advanced in Smart Grid and Green Technology

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**ABSTRACT**

The future smart grid will enable cost savings and lower energy use by means of smart appliances and smart meters which support dynamic load management and real-time monitoring of energy use and distribution. The Smart Grid will interface with smart appliances and area networking in the home. The introduction of two-way communications and control into power grid enables coordination of home energy use with the real-time economics of the power grid, while introducing security and privacy concerns. Deployment of Smart Grids opens important new services for businesses and consumers. In addition, many enterprises are reducing energy costs with green technology. In this panel, experts will describe the state-of-the-art in smart grid and green technology and discuss significant directions and impacts.

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