SESSION 1A

DEMAND RESPONSE PROGRAMS AND TARIFFS – LESSONS LEARNED AND FUTURE MEASUREMENT CHALLENGES

This session reviews the estimated peak demand savings from energy efficiency and demand response programs in California and New York over the last two years and provides an assessment of the accuracy and bias inherent in existing methods to measure "peak demand savings".

Moderator: Michael Messenger, California Energy Commission

PAPERS:

Demand Response Programs: Evaluators to the Rescue
    William Saxonis, New York Dept. of Public Service
    Donna Pratt, Neenan & Associates
Evaluating Demand Response Programs and Tariffs: Looking for Effective Synergies
    Steven Braithwait, Christensen Associates
Development of a Standard Baseline Calculation Protocol for Demand Response
    Miriam Goldberg, KEMA-XENERGY
    Ken Agnew, KEMA-XENERGY
    Mike Messenger, California Energy Commission

SESSION SUMMARY:

This session includes load impact and process evaluation findings resulting from the evaluation of a wide range of energy efficiency, demand response programs run at the wholesale and retail levels from the East and West coast. The first paper describes the different types of demand response programs (DR) offered in New York over the last three years and then highlights the results of the load impact evaluations of the programs and the role that enabling technologies played in increasing program participants' abilities to reduce peak load. The second paper presents the results from an evaluations of a wide range of energy efficiency and demand response programs implemented in California in response to the "Electricity crisis" of 2000/2001. The final paper reviews existing methods used to calculate the peak demand reduction achieved by individual customers in response to emergency curtailment requests and then analyzes the performance of each method with respect to their ability to accurately predict baseline load shapes using customer load and weather data from a sample of customers across the country.