

Session 6D

UTILITY DISTRIBUTION SYSTEMS: EVALUATING ENERGY EFFICIENCY & LOAD MANAGEMENT OPPORTUNITIES

Moderator: Kevin Cooney, Navigant

PAPERS *(in order of appearance)*:

Driving Away From Off-Peak Vehicle Charging: The Need for an Evaluation of the Effects of Public Vehicle Charging Infrastructure on PEV Owner Charging Behavior

Stephen Parry, Energy Market Innovations

Conservation Voltage Reduction: What Are the Savings

Frank Stern, Navigant Consulting

Nicholas DeDominicis, PECO Energy

Incorporating Energy Efficiency into the Transmission & Distribution Planning

Michael R Goldman, Northeast Utilities

Monica Kachru, Northeast Utilities

SESSION SUMMARY:

This session presents three issues that are emerging in the power industry as utilities invest in smart meters, distribution automation, and upstream infrastructure under the umbrella of *Smart Grid*. While most are looking for the consumer goldmine to develop from smart meter implementation, utilities that operate T&D systems are benefitting today by achieving efficiencies at all levels of operation.

In this session, we'll hear about some of the benefits of and issues associated with incorporating EE into system-wide integrated transmission and distribution planning. We'll also hear about significant and cost effective energy savings that were achieved by one utility through better management of system voltage at the end-of-line. The session will begin with a discussion of the data and evaluation needs that could provide insight needed to effectively plan for large scale deployment of Electric Vehicles and PHEVs, and to encourage mutually beneficial charging habits for Electric Vehicle owners.