

COMMERCIAL AND INDUSTRIAL EVALUATION TECHNIQUES

Moderator: Dick Spellman, President, GDS Associates, Inc.

PAPERS:

Telling the “Story” of Program Influence for Custom Programs in California

Jennifer Fagan, Itron, Inc.

Mike Rufo, Itron, Inc.

Standard Approach to Non-Standard Industrial Projects

Kevin Warren, Warren Energy Engineering

Carter Membrino, Warren Energy Engineering

Improvements in SEM Program Impact Evaluation Methods: Lessons Learned from Several Recent Projects

Heidi Ochsner, Cadmus

Jim Stewart, Cadmus

Lauren Gage, Bonneville Power Administration

Erika Kociolek, Energy Trust of Oregon

SESSION SUMMARY:

This session provides lively presentations on state-of-the art techniques for assessing the gross and net impacts and effectiveness of commercial and industrial sector energy efficiency programs. Evaluation approaches will be discussed for prescriptive and custom programs, large-scale industrial custom energy-efficiency projects, and strategic energy-management programs.

- Telling the “*Story of Program Influence for Custom Programs in California*,” by Jennifer Fagan and Michael Rufo, Itron. This paper presents findings from a recently completed evaluation study of the California Statewide Commercial and Industrial Custom Programs, which included both gross/M&V and net-to-gross elements. In what was one of the largest and most expansive efforts ever, nearly 1,400 Net-to-Gross surveys were completed using the standardized Self-Report methodology developed by the NTG Working Group. This afforded an opportunity for a much deeper and broader analysis of attribution at the program level than ever before.
- “*Standard Approach to Evaluating Non-Standard Industrial Projects*,” by Kevin Warren and Michael Honeychuck, Warren Energy Engineering. This paper discusses a systematic, albeit customizable, approach to evaluating industrial custom projects. The method was first developed for evaluating compressed air projects but it also applies to process cooling and other types of measures. In many cases, ex-ante savings for such projects were calculated using methods that either did not account for the impact of production, or did so in ways that were imprecise.
- “*Improvements in SEM Program Evaluation Methods: Lessons Learned from Several Recent Projects*,” by Heidi Ochsner, Cadmus. This paper discusses a whole-building analysis approach (following the IPMVP Option C guidelines) for doing an impact evaluation of a Strategic Energy Management (SEM) Program. Three challenging evaluation areas are discussed: (1) detecting statistically significant energy savings, (2) designing a sampling strategy, and (3) determining the value of site visits