Southern California Edison
SCE EE Business Plan A.17-01-013

DATA REQUEST SET A.17-01-013-CEE-SCE-001

To: CEE
Prepared by:
Title:
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Question 018:

Do energy savings and cost-effectiveness calculations for *downstream* energy efficiency programs take into account the risk of lost energy savings due to poorly installed energy efficiency measures? If yes, please describe and provide documentation showing: (a) how and where this is taken into account, (b) in what programs this is taken into account, (c) what adjustment factors (if any) were applied, and (d) the basis for the adjustment factor.

Response to Question 018:

Yes, energy savings and cost-effectiveness calculation for downstream energy efficiency (EE) programs take into account the risk of lost energy savings due to poorly installed EE measures. These risk factors for degradation of the performance of energy efficiency (EE) measures are factored into the installation rates. EE performance is measured in ex post impact evaluation studies from field data collection of installed equipment that feed into all savings and cost parameter assumptions in the cost effectiveness calculation.

As an example, see 2015 Nonresidential Downstream ESPI Deemed Lighting Impact Evaluation draft report conduct by CPUC on www.energydataweb.com. The study evaluates five nonresidential downstream lighting measures and develops revised estimates of savings. This study examines each of the savings performance parameters that make up the energy and demand savings separately: installed measure counts, annual hours of operation, and changes in wattages (or changes in annual operating hours and the amount of controlled wattages for occupancy sensors).

More specifically, the installation rates (aka GSIA Rate) are captured in the workpapers. In general, the GSIA rates and additional adjustment factors for savings performance net of free ridership come from prior M&E activities and are based on program and measure type and are stored in the Readi database (http://www.deeresources.com/index.php/deer-versions/readi).