

DOCKETED

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Energy Efficiency at SMUD

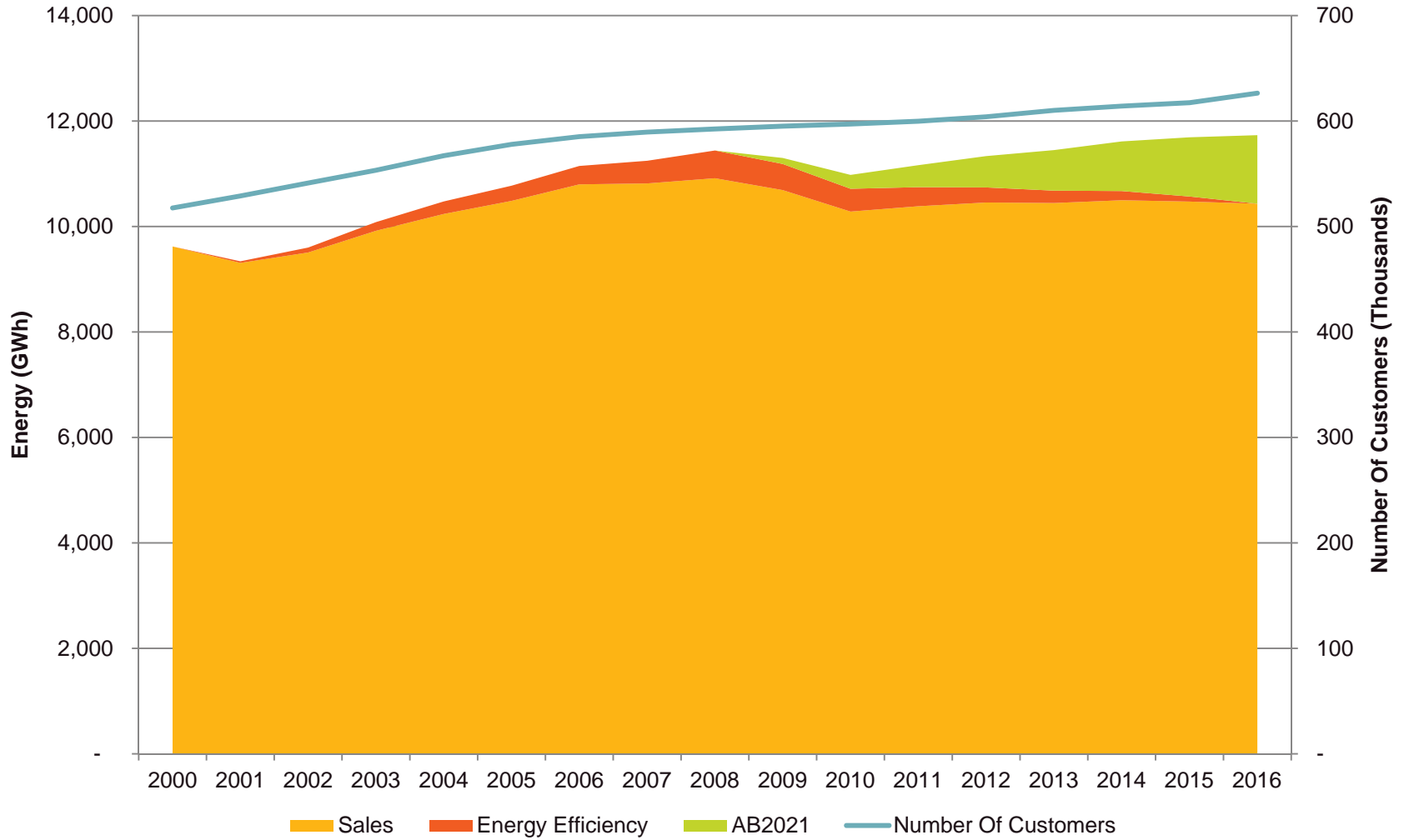
Customer Solutions
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June 2017

Powering forward. Together.

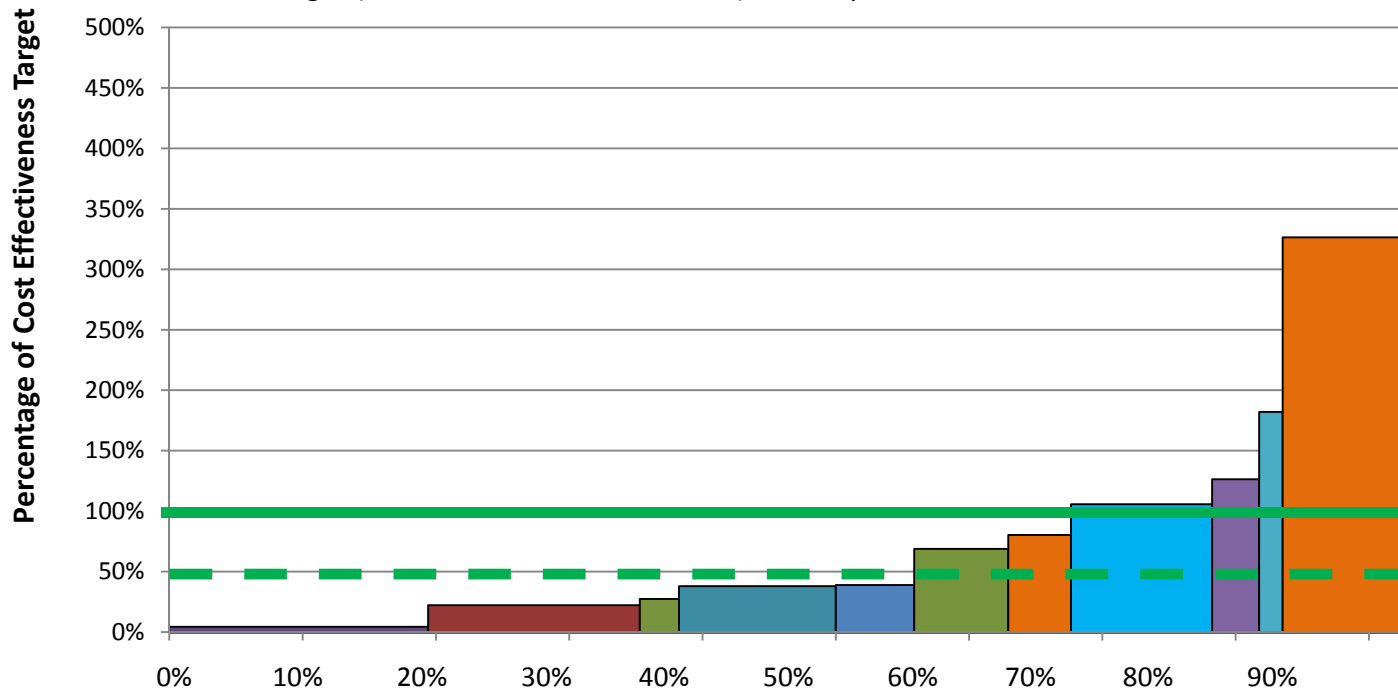


Impact Of Energy Efficiency SMUD



2017 Planned EE Program Performance vs. Cost Effectiveness Targets

Levelized cost of each Program relative to their Program-specific cost target (Cost Effectiveness Threshold) and respective GWh contribution

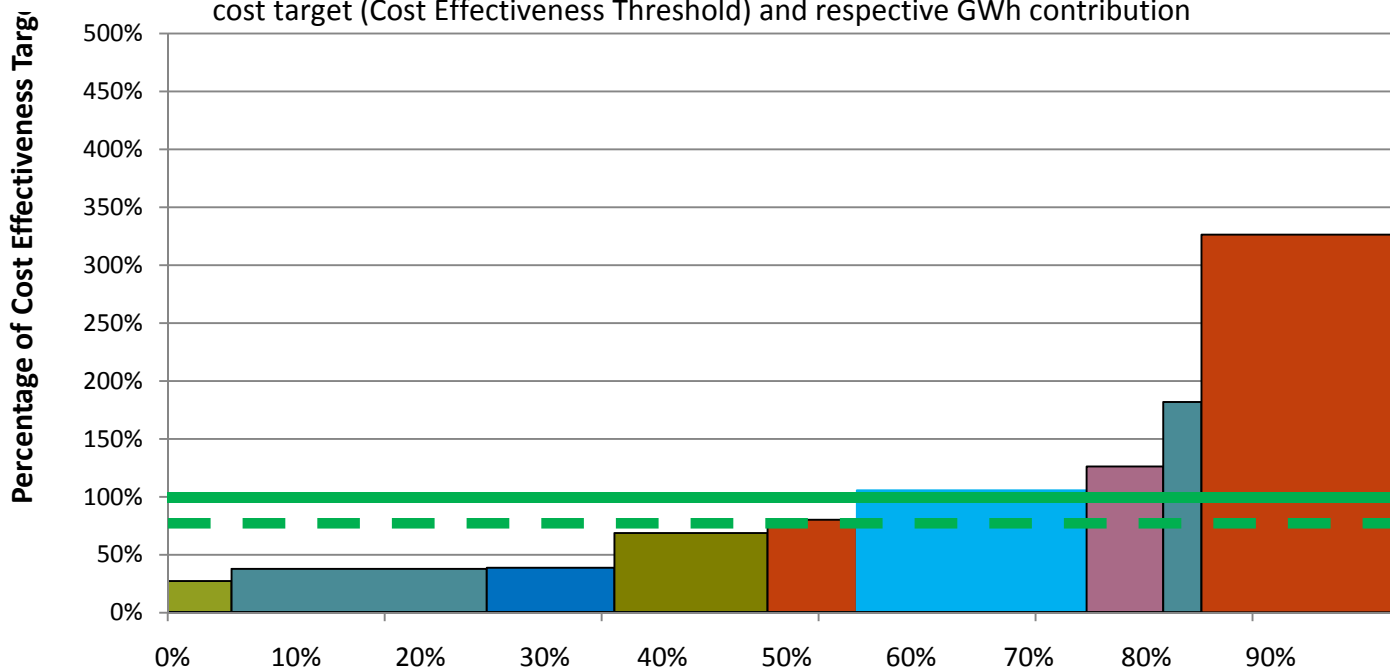


Relative Program GWh Contribution
(2017 Plan - 158 GWh. Cost Effectiveness - 50% of Avoided Cost)

- Codes & Stds (33 GWh)
- RetailLighting (27.5 GWh)
- Prop39 (5 GWh)
- Custom (20 GWh)
- SavingsbyDesign (10 GWh)
- ExpressEnergySolutions (12 GWh)
- HomePerformanceProgram (7.5 GWh)
- CompleteEnergySolutions (18.3 GWh)
- PlugLoadEfficiency (6 GWh)
- EquipmentEfficiency (3 GWh)
- ResidentialAdvisory (15.33 GWh)
- ShadeTrees (0.37 GWh)

2017 Plan - EE Program Performance vs. Cost Effectiveness Targets (Excludes Codes/Standards and Retail Lighting Programs)

Levelized cents cost of each Program relative to their Program-specific cost target (Cost Effectiveness Threshold) and respective GWh contribution



Relative Program GWh Contribution
(2017 Plan - 97.5 GWh. Cost Effectiveness - 77% of Avoided Cost)

- Prop39 (5 GWh)
- ExpressEnergySolutions (12 GWh)
- PlugLoadEfficiency (6 GWh)
- ShadeTrees (0.37 GWh)
- Custom (20 GWh)
- HomePerformanceProgram (7.5 GWh)
- EquipmentEfficiency (3 GWh)
- SavingsbyDesign (10 GWh)
- CompleteEnergySolutions (18.3 GWh)
- ResidentialAdvisory (15.33 GWh)

Market Transformation



- MT enhances the effectiveness of existing resource acquisition programs.
- Energy savings can be attributed to MT activities using standard M&V methods.
- MT is implemented notably by NEEA, but also by several other regional agencies.
- MT goals can be specific and quantifiable. Examples include:
 - Development of new product performance specifications (beyond ENERGY STAR)
 - Development of test procedures for new appliance or device types.
 - Goals for statewide availability of specific products through retail channels.
 - Goals for customer signups for voluntary programs.
 - Goals for awareness or positive perception of a technology among specific consumers.

Electrification & Market Transformation

- Market transformation approaches for electrification and emerging technologies should be key strategies to meeting SB 350
- Building electrification is tremendous energy efficiency, carbon reduction, and renewable integration opportunity
- SMUD examining a carbon metric for internal tracking to better align these three elements
- Important to align Title 24 with long-term carbon objectives for which SB 350 was passed



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