

Subcommittee Meeting Residential Audits and Reports



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Miscellaneous Category Measures

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No.	Measure Names	PG&E	SCE	SDG&E	SCG	POU
11.01	Home Energy Reports					
11.02	Home Energy Check Up					
11.03	Whole House Upgrade Program					
11.04	3P Synergy Water Measures Mobile Home					
11.05	Water Energy Nexus					
11.06	DEER Measures					
11.07	Energy Star Manufactured Housing					
11.08	Low Income M&V Study					

Home Energy Reports

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- ❑ Customers selected to receive tailored reports
 - ✦ Compares usage to “neighbors” – demographically and geographically similar customers
 - ✦ Provides tips to reduce energy consumption
- ❑ Savings expected from behavioral changes by customers
- ❑ Typical savings rates around 2% of electric usage
 - ✦ Closer to 1% of natural gas usage
 - ✦ Amount depends on report frequency and baseline usage
 - ✦ Behavioral natural gas saving opportunities more limited than electric
- ❑ EUL = 20 years (actual life may be shorter)
- ❑ IMC = \$0 (assumes only behavioral changes undertaken)
- ❑ NTG = 1.0 (Net effects are “baked in” to the savings methodology)

Residential Audit

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- ❑ Customer signs up to obtain audit
 - ✦ Online survey
 - ✦ Mail-in survey
 - ✦ On-site survey
- ❑ Audit identifies Energy Efficiency Opportunities
 - ✦ Some behavioral items
 - ✦ Some equipment-based
- ❑ Ex Ante savings = 3.1% (per 2010-12 evaluation)
 - ✦ 316 kWh for PG&E (online survey only)
 - ✦ 207.7 kWh for SCE for online survey
 - 314.7 kWh for on-site survey
 - 211.8 kWh for mail-in survey
 - 281.8 kWh for telephone survey
- ❑ No Gas savings
- ❑ NTG value = 0.55 (per READi)
- ❑ EUL = 3 years
- ❑ IMC = \$199.59

Program Comparison

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Home Energy Reports

- Opt-Out
- Savings determined by Experimental Design
 - Control vs. Treatment
 - Difference of Differences
 - NTG is “baked in” results
 - Ex Post analysis

Residential Audit

- Opt-In
- Savings determined by
 - Self-Report
 - Pre/Post Usage analysis
 - Requires NTG analysis or uses default NTG

Potential Issues

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- ❑ Overlap between programs likely to increase
 - ✦ Customers participating in Home Energy Reports may self-select for Residential Audit unless prohibited
 - ✦ Home Energy Reports can actually serve as useful lead generator for downstream and midstream programs
 - Evaluation efforts must assess rates between treatment and control group
 - Assignment of savings can be contentious if not addressed up-front
 - ✦ Increasing availability of support tools for Home Energy Reports will likely elevate that product to the equivalent of an on-line energy assessment