

Building Tune Up Results
Grand Slams, Singles, and Strikeouts
 NCBC 2006 April 18, 2006

The Building Tune-Up Overview
 BTU Overview in PG&E Service Territory

- Savings goal of 18.6 GWH
- Budget \$3.4M
- Largest RCx initiative in the world
- Focused on buildings >100,000 ft²
- Sectors included:
 - Commercial office
 - High tech
 - Hospitality
 - Hospital
 - College and university

The Building Tune-Up Overview
 BTU Program Structure

- Preliminary and Detailed Investigations
 - Preliminary capped at \$2500
 - Detailed ~\$0.07/ft²
- Provided incentives for implementation
 - Rebates bought project costs to 1 yr payback...
 - ...or \$0.03/kWh for those under 1 yr.
 - Resources to assist with implementation
- Open RCx agent participation throughout program...screening, but no formal training
- QA - 100 percent verification of installation
- Systems manual presented upon verification

BTU
Buckeye Thermal Utility

The Building Tune-Up Overview

BTU Program Goals

- Program Goals
 - Projected budget - \$3.4M
 - Net annual kWh - 18,356,872
 - Marketing presentations - 90 sites (18,000,000 ft²)
 - Preliminary audits - 90 sites (18,000,000 ft²)
 - Detailed audits - 75 (18,000,000 ft²)
- Program Results
 - Budget spent - \$2.7M
 - Net annual kWh - 22,715,922
 - Marketing presentations - 80 sites (~36,000,000 ft²)
 - Preliminary audits - 54 sites (26,068,589 ft²)
 - Detailed audits - 38 (19,004,075 ft²)

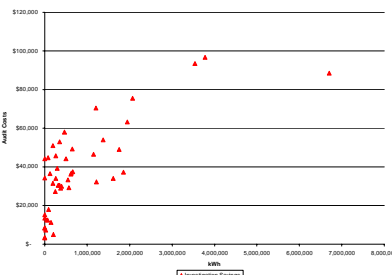
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BTU
Buckeye Thermal Utility

BTU Program Analysis

Grand Slams, Singles, and Strikeouts



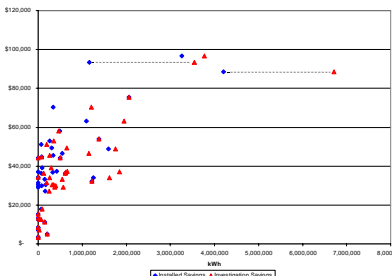
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Buckeye Thermal Utility

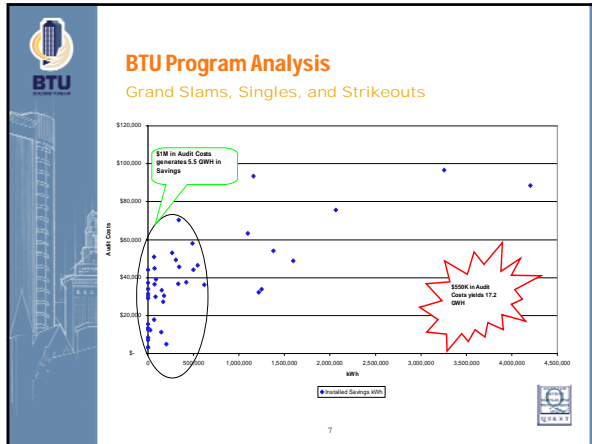
BTU Program Analysis

Grand Slams, Singles, and Strikeouts



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- The Building Tune-Up Overview**
Lesson Learned
- RCx is a major cost-effective DSM tool
 - Marketing Throughput
 - Recruit double the goal – Need 80M ft² for 40M ft² goal
 - Make participation easy – but not too easy
 - Go after chains/multi-site property holders
 - Owners care more than non-owners
 - Limit Study Costs – Keep your hand on your wallet
 - Cap study costs at no more than \$10K
 - Only increase budget if study delivers savings
 - Keep Providers Engaged
 - Limit number of projects providers can have “in play”
 - Require providers to convert savings before starting new projects
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- The Building Tune-Up Overview**
Lesson Learned
- Participation process needs to be simple
 - Complicated program processes reduce throughput
 - Risk should be shared
 - Rebates are needed
 - Even rebates of \$0.03/kWh can provide an incentive...
 - ...gets owners to work on the program timeline
 - Paybacks are great
 - For identified measures = 0.80 years
 - For installed measures = 0.60 years
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