



Agenda

- » Status to date
- » Background
 - Discuss Purpose and details of Mini Pilots
- » Final Pre-Test designs/modification
- » Budget Review



Status to date

- » 3 Mini pilots completed
- » Customer selection finalized
- » Sample Randomization complete and submitted to field
- » Data tracking and logging tools complete
- » Report generation tools complete
- » Full experiment ready to launch



What is To Code

- » To Code, is an experiment designed to learn motivating drivers that lead to 82% efficient equipment retrofit, i.e. To (State) Code vs above code retrofit.
- » Interventions tested:
 - Financial rebates for "To Code" savings
 - Technical expertise and assistance
 - Marketing approach



To Code Overview - Objectives

- » Define Target Segments and Technology:
 - Develop list of customers that are applicable for the To Code offer and experiment
 - Identify technologies and other attributes that further define the list to maximize resources
- » Duration:
 - 1 year or until success targets are met
- » Success:
 - Complete a minimum 300 retrofits
 - Complete a minimum of 150 from treatment group via power calculations



Background

- » Documentation
 - Utility scripts & procedures, work flows, work orders, and field training
 - Check points to validate progress and data gathered
- » Mini Pilots Provided valuable in sights and shaped final experiment
 - Followed overall experimental protocol
 - Designed to test the approach, feasibility and identify limits
 - Lessons learned were fed back into next pilot
 - Final design utilizes feedback from all three mini-pilots



Implementation Strategy

- » Assumptions:
 - Customer uptake defined: Customer agreement to participate and IST producing a Boiler Flue Gas Analysis
 - Retrofit and Treatment effects were not monitored for mini-pilots
- » Mini Pilot Strategy Loop:
 - Develop customer list based on filtering strategy
 - Implement list to experiment
 - 3. Review Uptake results
 - a) Evaluate results against decision and statistical integrity
 - b) Reveal data clarification opportunities
 - c) Review customer database and filtering required for data sufficiency
 - 4. Revise filtering strategy and run new customer reports with new filtering parameters
 - 5. Send updated customer report for randomization and selection to E2e



Mini Pilot 1 (MP1)

» Purpose:

Understand drivers that increase rebate participation for customers whose usage is under 50K therms.

- » Desired customer uptake : 10%
- » Deployment Location: Epicenter City of Downey (ERC)
- » Customer Outreach mode: SCG calls customer to schedule appointment
- » Equipment and compliance verification: SCG Inspector

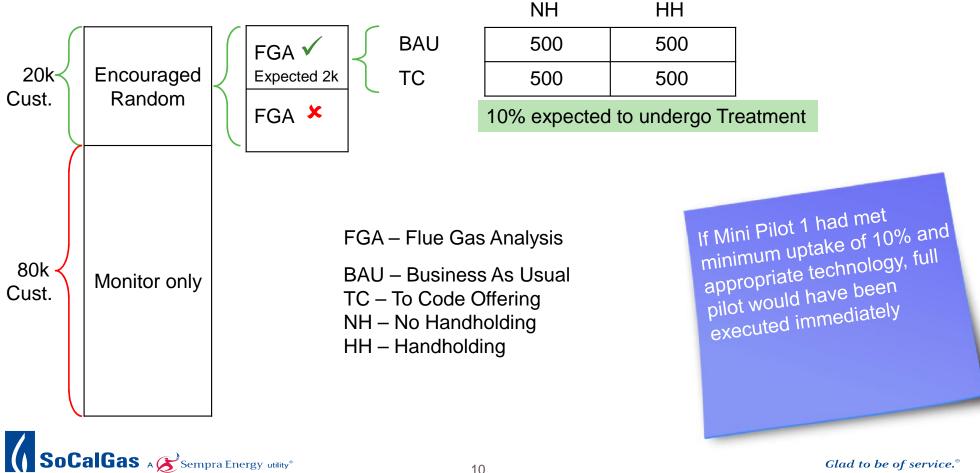


MP1 Cnt'd

- » Limits for personnel interacting directly with customer:
 - Caller
 - Must not mention that customer has been selected for a CPUC pilot
 - Attempts no more than 3 times per customer, or 5 if a follow-up requested by customer
 - To provide 800 number for customer follow ups/direct customer to SCG EE online
 - Inspector
 - Must not discuss technology other than to gain access to site and equipment
 - Must not discuss the experiment, selection criteria or eligibility with any customer
 - Must engage in discussions regarding alternative customer owned locations
 - Customer
 - Only customers in the randomly selected BAID (Billing ID) list are to be considered, regardless of multiple businesses owned
 - Customer who are on the list and decline, are allowed to be reinstated



MP1 Cnt'd - Customer Selection



Mini Pilot 1 (MP1) - Cnt'd

- » Results
 - Customer acceptance rate 9% vs 10% desired
 - Customer pool comprised of Water Heaters, which were served by Midstream and not Downstream
 - Average usage was under 3,000 therms, some match residential usage
 - Usage was too low for rebate to make an impact on payback analysis
- » Lessons Learned Increase usage threshold, filter out water heaters and seasonal usage
- » Resources
 - Duration 16 days
 - 1 Caller
 - 2 Inspectors
 - · Program costs excluded



Mini Pilot 2 (MP2)

» Purpose:

Understand drivers that increase rebate participation for customers whose usage is under **between 20k** - 50K therms.

- » Desired customer uptake : 10%
- » Deployment Location: 18 miles radius from ERC, Downey, CA
- » Customer Outreach mode: SCG calls customer to schedule appointment
- » Equipment and compliance verification: SCG Industrial Technician

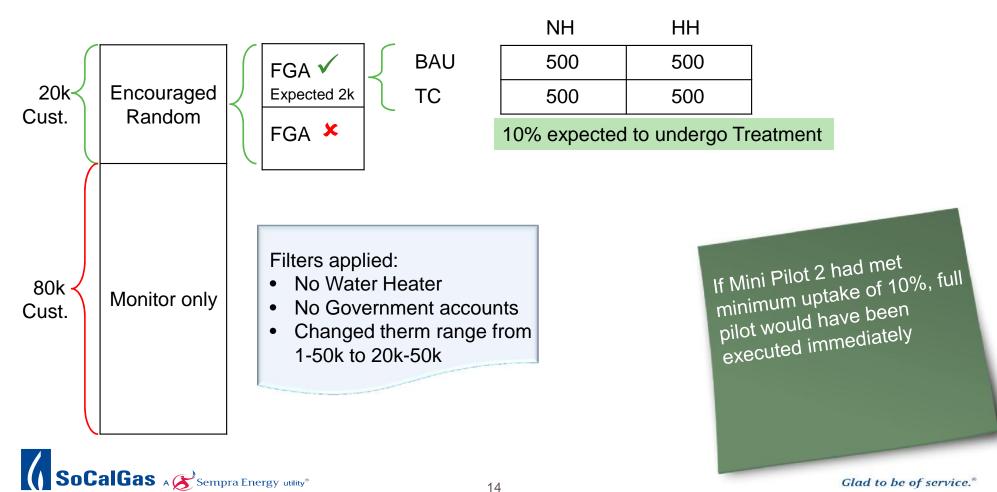


MP2 Cnt'd

- » Limits for personnel interacting directly with customer:
 - Caller
 - Must not mention that customer has been selected for a CPUC pilot
 - Attempts more than 3 times per customer, or 5 if a follow-up requested by customer
 - Provides 800 number for customer follow ups/direct customer to SCG EE online
 - Inspector Industrial Service Technician (IST)
 - Must not discuss technology other than more than EE business as usual to gain access to site and equipment
 - Must not discuss the experiment, selection criteria or eligibility with any customer
 - Must engage in discussions regarding alternative customer owned locations
 - Customer
 - Only customers in the randomly selected BAID (Billing ID) list are to be considered, regardless of multiple businesses owned
 - Customer who are on the list and decline, are allowed to be reinstated



MP2 Cnt'd - Customer Selection



Mini Pilot 2 (MP2) - Cnt'd

- » Results
 - Customer acceptance rate 8% vs 10% desired
 - Customer decision maker reluctant or not accessible
 - Technician limited by customer's acceptance
 - Most equipment found were already to code
- » Lessons Learned Better identify active accounts, One account may hold many boilers, Realizing that visiting customer may increase acceptance rate
- » Resources
 - Duration 21 days
 - 1 Caller
 - 18 Industrial Technicians
 - Program personnel



Mini Pilot 3 (MP3)

» Purpose:

Understand drivers that increase rebate participation for customers whose usage is under between 20k - 50K therms.

- » Desired customer uptake : 10%
- » Deployment Location: 18 miles radius from ERC, Downey, CA
- » Customer Outreach mode: SCG calls IST visits customer to schedule appointment
- » Equipment and compliance verification: SCG Industrial Service Technician (IST)

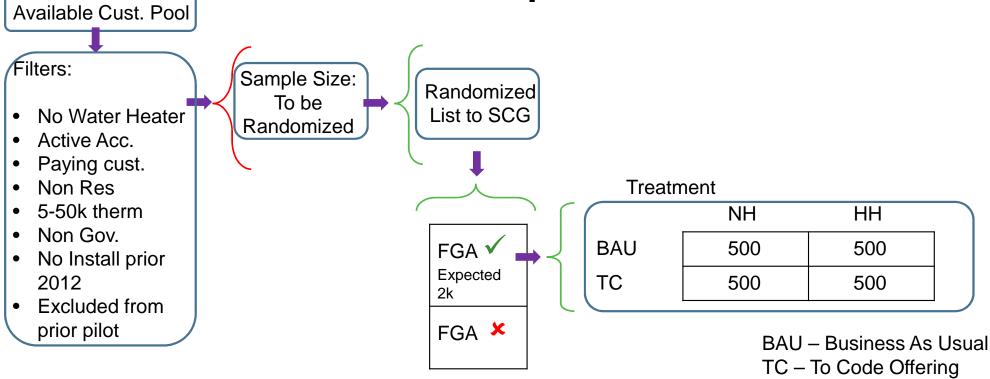


MP3 Cnt'd

- » Limits for personnel interacting directly with customer:
 - Caller
 - Must not mention that customer has been selected for a CPUC pilot
 - Must insist no more than 3 times per customer, or 5 if a follow-up requested by customer
 - To provide 800 number for customer follow ups/direct customer to SCG EE online
 - Inspector Industrial Service Technician (IST)
 - Must not discuss technology other than more than EE business as usual to gain access to site and equipment
 - Must not discuss the experiment, selection criteria or eligibility with any customer
 - Must engage in discussions regarding alternative customer owned locations
 - Customer
 - Only customers in the randomly selected BAID (Billing ID) list are to be considered, regardless of multiple businesses owned
 - Customer who are on the list and declined, are allowed to be reinstated



To Code Experiment





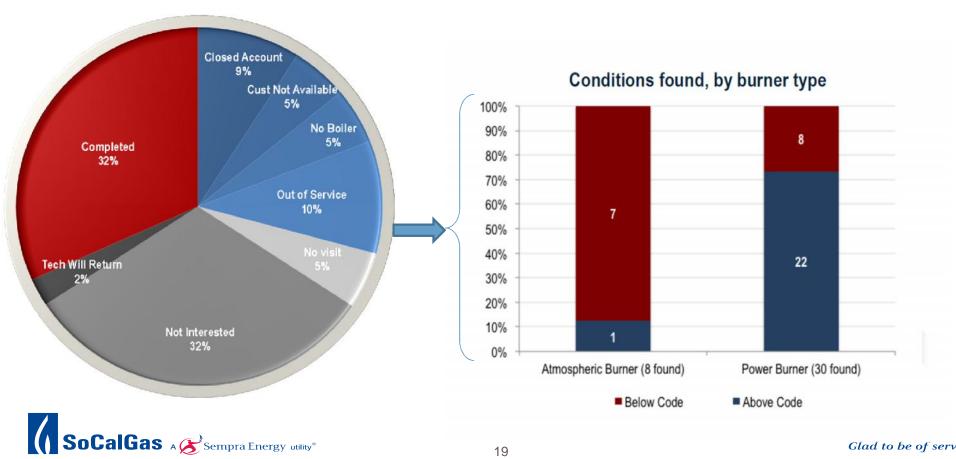
Glad to be of service.®

NH - No Handholding

FGA – Flue Gas Analysis

HH - Handholding

Mini Pilot 3- Honing on Technology **Breakdown (List of 120 customers)**



Mini Pilot 3 (MP3) - Cnt'd

» Results

- Customer acceptance rate 32% vs 10% projected
- Most technology differences exposed from above/below to code
- » Lessons Learned
 - Atmospheric burners, IST were the most effective mode of customer engagement, increase pool FROM 20k-50k TO 5k – 50k therm in order to validate customer reluctance to participate in programs
- » Resources
 - Duration 30 days
 - 18 Industrial Technicians
 - Program personnel



Final - To Code Workflow

- 1. IST Visits facility conducts FGA on all boilers
- 2. A report is generated from IST data and submitted to E2e
 - Survey shows rebate options based on E2e selected treatment
- 3. Customer reviews report
- 4. Customer retrofits and applies to our regular rebates
- 5. Rebate check is sent to customer with additional funds IF randomly selected for To Code Treatment

IF Customer is selected for special Hand Holding treatment...

- 6. IST visits customer to discuss the report and EE opportunities
- 7. IST fills out rebate application OR documents customer's reasons for not participating in our rebate program



Budgets

- » MP1 Program Costs, Caller time.
- » MP2 & MP3 \$13.5k
- » Full Pilot Visits/FGA's \$145k, Training \$2k.

SCG Next Steps

» SCG intends to use lessons from this pilot to evaluate its viability as a full program offering, and also evaluate how to frame our incentive structure across our programs that address to-code opportunities

- » Lessons Learned:
 - Learned customer engagement limits, experienced technical limitations and modified plans along the way
 - Continuously strive to increase communication and awareness

