



Today's Presenters

- Ken Black, Co-chairman, E Source
- Mike Ellinger, Whole Foods Market
- Juliann Rogers, Director of Energy, CKE Restaurants Holdings Inc.



Overview and Agenda

- Welcome and Overview
- Setting the Stage: Utility Incentives Landscape (E Source)
- Success Story: Partnering for Grocery Store Efficiencies
- Success Story: Efficient Broilers in Quick-Serve Restaurants
 (CKE)
- Q&A/ Discussion





Setting the Stage: Utility Incentives Landscape

Ken Black, E Source





Free Money: Working with Utilities to Make Your Energy Reduction Dreams Come True

Kenneth Black

Co-Chairman, E Source

DOE Better Buildings Summit May 28, 2015

www.esource.com May 28, 2015

Who is E Source?

- Research and advisory firm with 30 years utility experience
- Over 85 staff with headquarters in Boulder, CO
- Membership-based
- Focus is on the retail side of electric & gas utility industry



Our customers

- Electric/Gas utilities
- Government including DOE, EPA
- Non-Governmental Organizations
- Fortune 500 companies
- Consultancies
- Vendors of products/services sold to utility industry
- 75% of top 100 electric utilities in US
 - 2/3's of all electricity sold in US flows through our utility customers
- 91% of all Canadian electric utilities
- 58% of top 100 gas utilities











































The Coca Cola Company

Johnson-Johnson





Exelon

nationalgrid



PG&















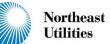




DTE Energy

















CLEAResult



























E Source Provides

- Tools, research services, advice, and consulting
- Unbiased and actionable research
- Case studies and best practices
- Who is doing what?
- What works and what doesn't
- State of the industry
- Independent assessments and benchmarking
- We help filter the torrent of information in the marketplace



What I Will Talk About Today

- Utility industry undergoing gut wrenching change
 - Flat and declining revenues
 - Renewables
 - Market changes
- DSM trends that will affect you
- Approaches you might consider



DSM Trends

- Goals continue to rise in many states, but challenges in others (e.g. OH, IN, FL, AZ)
- In general, utility incentives have fallen
- Some states evaluating new innovative restructuring
- If approved, CAA 111(d) will likely drive more DSM
- The customer and "Customer Experience" increasingly front and center for utilities
- Growth in DSM spending and customer interest has helped spark "competition" in the energy efficiency market

Strategic DSM Issues

- DSM programs still remain predominately lighting
 - 60-70% of DSM program savings are from lighting
 - Relatively few new technologies are included
- Lower avoided costs (e.g. natural gas) impacts
- Innovative on-bill financing and repayment products are slow to make inroads
- CHP has gained momentum, but remains a hard sell and can quickly overtake DSM budgets

Strategic DSM Issues (cont'd)

- Increased focus by regulators and politicians
 - More scrutiny of programs, results, and assumptions
- Entry of 3rd parties into energy business that has been the traditional utility domain
- EE will continue upward pressure to raise rates
 - Focus on cost cutting and driving only the most costeffective programs such as lighting

Strategic DSM Issues (cont'd)

- Need to move beyond cream skimming to deeper retrofits and more comprehensive approaches
- Cost and lack of uniformity of program evaluation
- The bar continues to rise on Codes & Standards which directly impacts incentives

Approaches You Might Consider

- Custom incentive programs can be effective
 - But, technologies have to work and lower energy demand
- Comprehensive whole building approach
- Combine EE and DR along with PV and storage
- Strategic Energy Management programs
- Intelligent Efficiency
- Consider new "financing" approaches in lieu of rebates

For More Information



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Success Story: Whole Foods Market & NSTAR Partnership

Mike Ellinger, Whole Foods Market



Streamlined Utility Incentives



Presentation Outline

- Don't settle for "prescriptive" incentives, seek a custom, volume program
- Case Study with NSTAR in Boston Market MOU
- Property holders that benefit from this model
- Barriers against rapid implementation
- Utility internal stresses that drive success

Presenters:

Mike Ellinger-WFM Global Coordinator- Maintenance & Refrigeration Mike Guldenstern-Director – e²s energy efficiency services, LLC

WFM Global Program Leads:

Kathy Loftus - WFM Global Leader – Sustainable Facilities Aaron Daly-WFM Global Coordinator- Energy

Prescriptive vs. Custom Incentives



- Many property owners have exhausted prescriptive incentive opportunities
- Most Utilities offer a custom incentive program
 - Can be leveraged to allow deployment of current market efficiency technologies
- Often the existing custom path is a bit like...

Prescriptive vs. Custom Incentives



A mountain of paperwork, analysis, and time

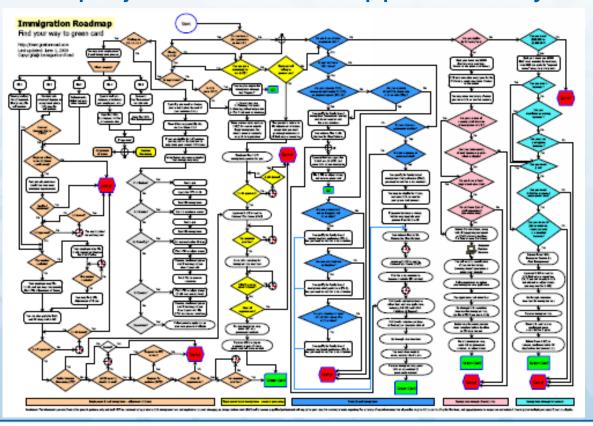


Prescriptive vs. Custom Incentives



Or – "We'll have our outsourced engineers talk with your engineers, and then we'll talk about when we'll talk next

Path to project review and approval ~ 2 years



Case Study - NSTAR Boston MOU



- Memorandum of Understanding
- Supports the speed of Commercial business
- Cut out all red tape "off the reservation"
- Collaborative spirit of energy conservation
- Propose projects/technologies with clear engineering backup for review by utility team
 - Often agreed rapidly with some back/forth
 - Occasional analysis / M&V required
- Approved project classes created easy repeat path

Case Study - NSTAR Boston MOU



- Memorandum of Understanding
- Established a flat incentive for annual kWhr saved
- Custom incentives easy to predict
 - Detailed engineering calculations
 - 3rd party implementer rapid deployment
- Nearly \$2m in incentives to date
- On average project incentive awards of 25-33%
- Project has removed 10,000,000 annual kWhrs/year
- Propelled WFM North Atlantic Region towards reduction goals

Who Can Benefit?



Property owner/operators with:

- Volume quantity of buildings within single unique utility service territory
- Volume quantity of similar buildings/systems
- Helps replicate measures swiftly across buildings

Barriers Against Rapid Implementation



- Utilities often don't / won't share information
- "Island" effect for project/savings penetration
- Fresh negotiation with new utility
- No accepted national archive for allowable references
- Individual State P.U.C.'s demand audit trail
 - Creates heavy, individual M&V and analysis burdens
- Some Utilities annually under funded for incentives and require mandatory sub-metering (ex: Texas)

Bright spots:

- Energy Star label programs, and DLC for LED's
- DOE could help replicate the "gold standard" philosophy and function as a project repository

Utility Stresses that Drive Success



- Many Utilities struggle to spend their collected "Societal Benefit Fund" (incentive funding pool)
- Many are under intense scrutiny to relieve current and future grid pressure
- Older plants closing, none coming online
- Utility directors incentivized for funding payout performance – they want to deploy the funding
- Utilities want to be in the "good news" business
- Let's help them help themselves transform the market

Success Story: Efficient Broilers in Quick Serve Restaurants

Juliann Rogers, CKE Restaurants Holdings Inc.





Incentive Approval Timeline

- 2010 -- Designed new broiler
- 2011 -- Submitted Broiler to Testing Facility
- 08/01/11 -- Submitted Savings Report to Utilities
 - 11/08/11 -- PG&E received conditional approval from CPUC and started accepting applications
- 02/22/12 -- CPUC selected SCG/CKE broiler project for review
- 03/08/12 -- SCG received conditional approval from CPUC, but wouldn't accept applications until final approval from CPUC
- 11/01/12 Met with Utilities and CPUC to Discuss Hurdles
- 12/10/12 -- CPUC requested 4 sites for M&V
- 03/05/13 -- CPUC requesting more information on the specific age of the existing broilers
 - 03/11/13 -- SCG requested by CPUC to provide pre M&V on 8 sites
- 03/22/13 SCE Approved for Review
- 7/3/13 PG&E required to submit 16 sites for M&V
- 9/25/13 -- SCG started accepting applications for incentive giving approval to install new broilers 10/07/13 -- PG&E stopped accepting applications until CPUC approves the project
- 10/16/13 PG&E began accepting applications again, but will not pay incentive until CPUC has approved
 - 3/25/14 Received Final Approval from CPUC for incentive



Custom Rebate Process – CA

Application Requirements

- Required separate applications for each site with out a schedule (batched applications required all broilers to be installed to received rebate)
- Letter of pre-authorization required
- Site list and install schedule the incentive would dictate the rollout schedule

Utilities Review Process

- M&V prior to submitting to CPUC
- Some Utilities used the savings report in lieu of M&V
- Timing of this review varied per utility

CPUC Review

- Reviews each utility submission as a separate project
- Reviews each customer as a separate project
- Randomly selects projects for review
 - One utility was selected for further review and 4 sites were requested for Pre – M&V
 - Conditional approval was granted pending CPUC review
 - Unconditional approval was granted pending CPUC review







Custom Rebate Process – CA

CPUC selected the "project" for review

- requiring each utility provide pre and post M&V on a specific number of broilers.
- The number of broilers needing M&V varied per utility, one needed as many as 14 sites
- The broilers needed to be of varying ages. This meant that we needed to install broilers in fairly new sites.
- Two utilities used the same consultant company to complete the M&V

Conditional approval was granted through out the review process

- One utility wouldn't accept applications until final approval from CPUC
- One utility began accepting applications but wouldn't pay out until final approval from CPUC
- One utility began accepting applications and began paying incentives





Custom Rebate Process – CA

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QSR Opportunities

- Standardize the custom rebate application and approval process
 - The process for submitting a custom project for the incentive is neither transparent or standardized across the different utilities.
 - Multiply that by all the utilities offering custom incentives for both gas and electric
- With Customer's permission, allow the utilities to share customer information regarding specific projects i.e. engineering and M&V reports
 - Standard Restaurant Prototypes
 - Similar Square Footage
 - Same equipment package
- Solicit customers input when developing incentive program
 - i.e. utility is developing a new LED incentive program which includes them selecting an approved manufacturer and authorized installers
- Pre Audits
 - Select a minimum random sample for pre-audits when the project scope is the same for each site





QSR Opportunities cont...

- Online application
 - user friendly
 - Provide the ability to attach a spreadsheet with multiple sites to a single application
- Flexibility on Installers
 - Allow customers with in-house technicians to self-perform where applicable





What's working

- National Account Managers
 - Support with completing applications and navigating through required paperwork
 - Communicating with Franchisees
- Energy Star Pre-approved rebates
 - being adopted by many utilities across the country
- Website consolidating rebates with application link
 - www.fishnick.com
 - www.theflameison.org





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Discussion

