

Learning from the Past to Inform Future Work

Trends in Behavior Based Efficiency Programs

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SEE Action Webinar December 16, 2015

OUR MISSION

efficiency programs by enhancing
communications and harmonizing
approaches across programs
to advance energy
efficiency for the
public benefit.

Program administrators formed CEE:

- To reach binational markets
- Accelerate market uptake of efficient products and services
- Which achieves lasting public benefit of energy efficiency



CEE supports market initiatives and explorations with cross cutting functions



Residential



Commercial



Industrial

Evaluation, measurement and verification

Behavior change

New program design

Connectivity

Emerging technology

Agenda for Today

- What is the CEE Behavior Program Summary?
- Results to Date
- Future Work and Next Steps

Background

Behavioral insights create opportunities to drive energy savings from efficiency programs BUT....





They also come with many questions, uncertainties, and challenges.

How can we best support the CEE membership to succeed in this space?



CEE Behavior Program Summary

- ▼ What: Annual, online survey → Summary Document
- ▼ Who: CEE Member Organizations
- Purpose: Serve as a resource for members and help facilitate information exchange
- Available since: 2010 (members), 2012 (public)



What information do we collect?

Program Details

Organization Funding

Description Vendors/Contractors

Program Duration Sector and Target

Location Audience

Evaluation

Type of Evaluation Challenges

Data Source/Metrics

Program Components

Behavior Insights

Strategies

Goals

Gamification (new!)
Two-way feedback

(new!)

Savings

Claiming Savings

Savings Goals
Savings Achieved

Persistence

Savings Attribution

Insights

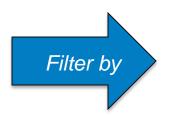
Key Takeaways

Behavior Research

Regulatory Requirements

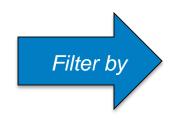
Using the Program Summary



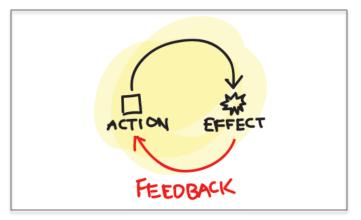


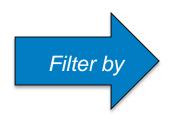
Program Name





Sector **Target Population**





Behavior Insight



Using the Program Summary

2015 Public Behavior Program Summary



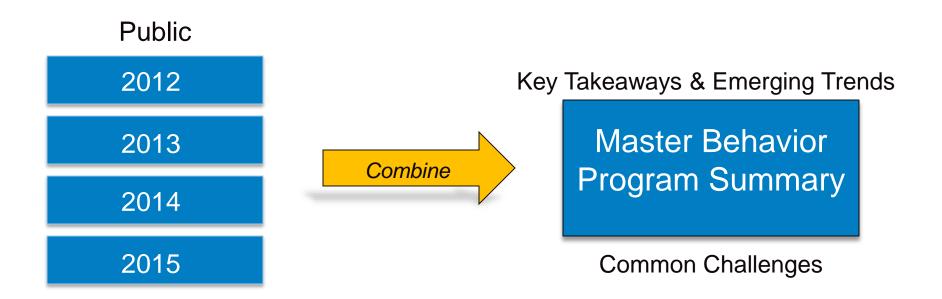
"Social Norms"

62 programs

106 programs

- Evaluation Complete & Claiming Savings
 - 23 programs
- Target Sector
 - Residential (45), Commercial (8), Industrial (13)
- Strategies: Provide Feedback
 - Estimated (22), Enhanced Billing (25), Real-time (9)
- Goals: Market Transformation
 - 22 programs

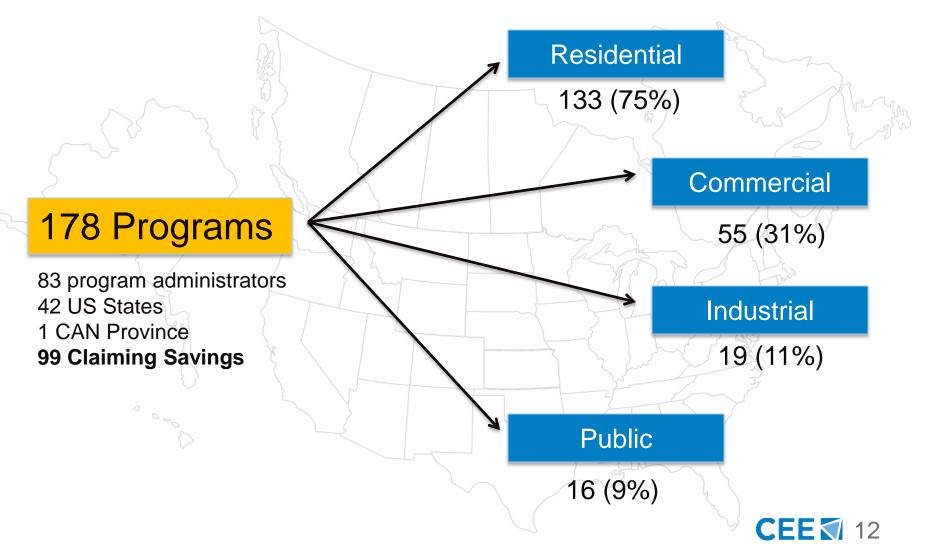
Methodology and Caveats

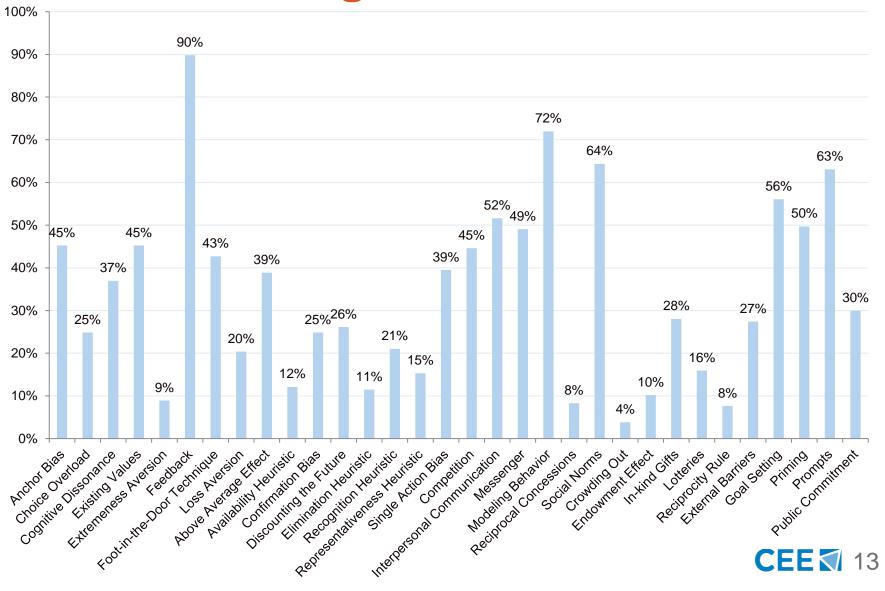


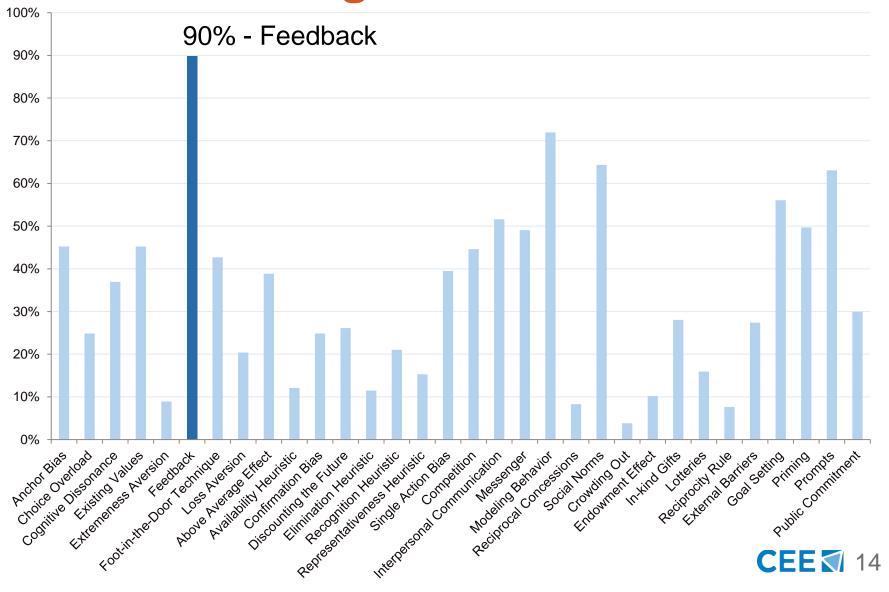
Caveats and Scope

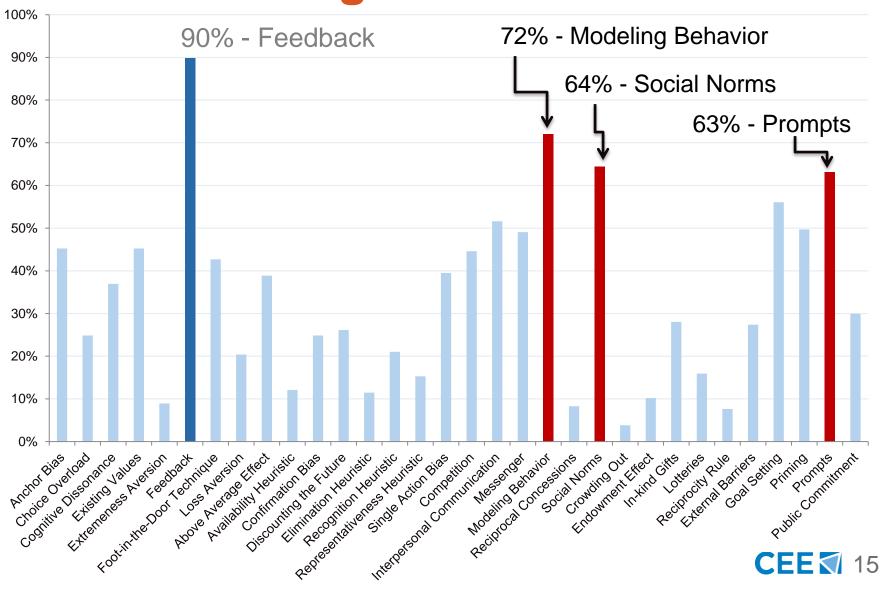
- <u>NOT</u> a representative sample
- Select topics

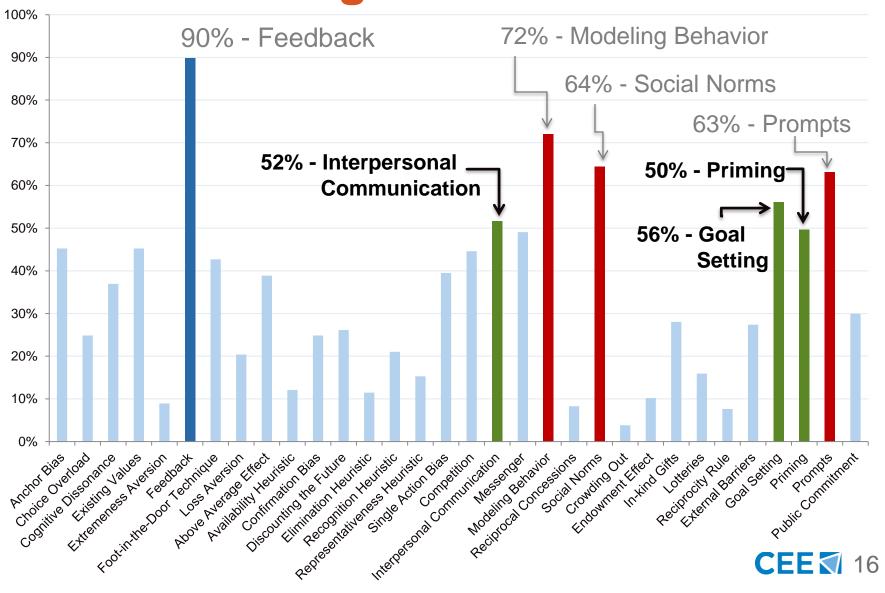
Who is running behavior-based programs?









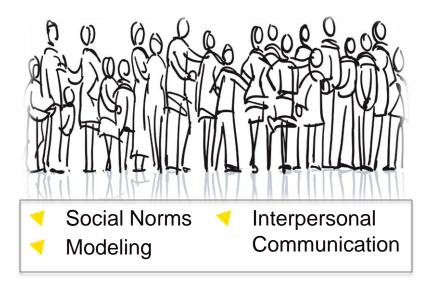


Feedback

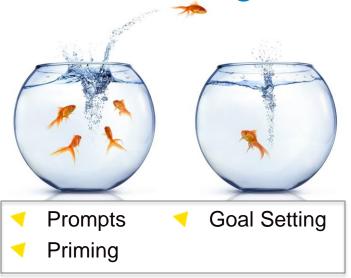
Easier to gain regulatory acceptance



Person-to-Person



Follow Through





Evaluation

42% Complete 24% Planning/Underway

Type of Evaluation

Impact – 85% Process – 49%

Metrics

Energy Savings – 75%

Customer Satisfaction – 62%

Awareness – 59%

Number of Participants Reached – 40%

Cost Savings – 35%

Design

Experimental – 49% Non-Experimental – 27% Quasi – Experimental – 9%

Challenges

Uncertainty regarding persistence – 31% Data collection – 30% Difficulty attributing savings – 26% Sample Size – 21%

Key Takeaways







CUSTOMER

Key Takeaways: Implementation Tips







"Careful, early planning by engaging a multidisciplinary team (program team, evaluation team, and regulators) at the outset is critical to a successful program launch and execution."

Key Takeaways: Program Benefits







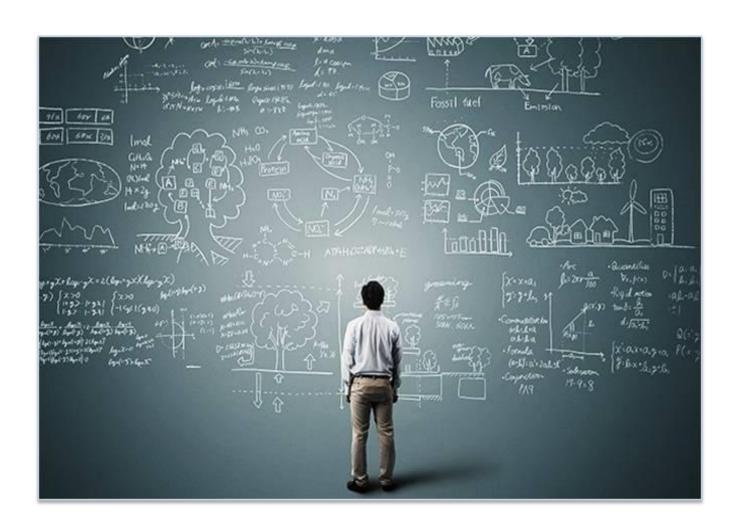
"Having an icon can help make an 'invisible concept' something concrete and visible."

Key Takeaways: Savings & Evaluation

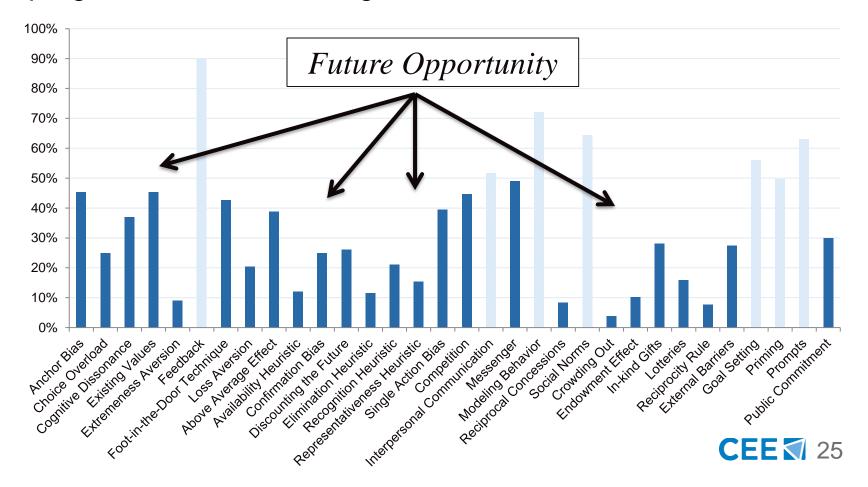




"Maintaining no changes during program implementation can prove to be a little difficult as more information about the program emerges."



 Untapped opportunities to incorporate new insights to enhance programs and drive savings across sectors



Rewarding Change



Framing Efficiency



Connected Technology & Behavioral Insights







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Key Areas to Watch

- Persistence measurement, length
- Connected technologies
- Savings attribution

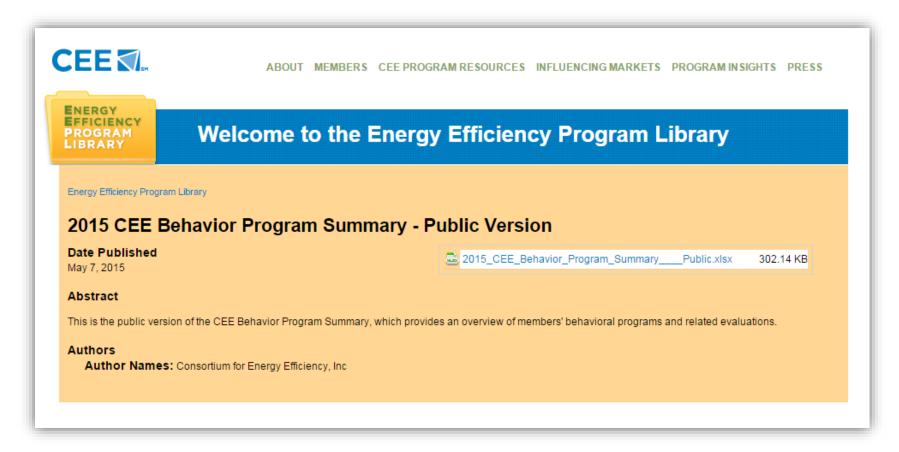




2016 Program Summary

Coming to our public website in spring of 2016!

Resources: Behavior Program Summary



http://library.cee1.org/content/2015-cee-behavior-programsummary-public-version/

Resources: Behavior at CEE



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