

# EM&V 2.0

## Modern Measurement for Energy Efficiency

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# EnergySavvy at a glance

Cloud software company bringing DSM into the 21st century



optix ENGAGE

CUSTOMER  
ENGAGEMENT



optix MANAGE

PROGRAM AUTOMATION  
& PORTFOLIO TRACKING



optix QUANTIFY

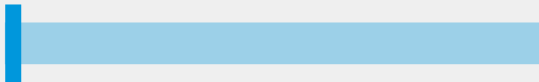
MEASURE ACTUAL  
SAVINGS

# DSM Measurement - \$25B Problem



Deemed savings

PY 1



Actual observed, metered savings



# Measurement Challenges



## Data Lag

Slows utilities, regulators, and market



## Cost- and Effort-Intensive

EM&V costs can consume 3-5% of program budgets



## Retroactive

Backwards looking analysis doesn't allow for optimization



## Contentious

Lack of transparency and consistency across jurisdictions



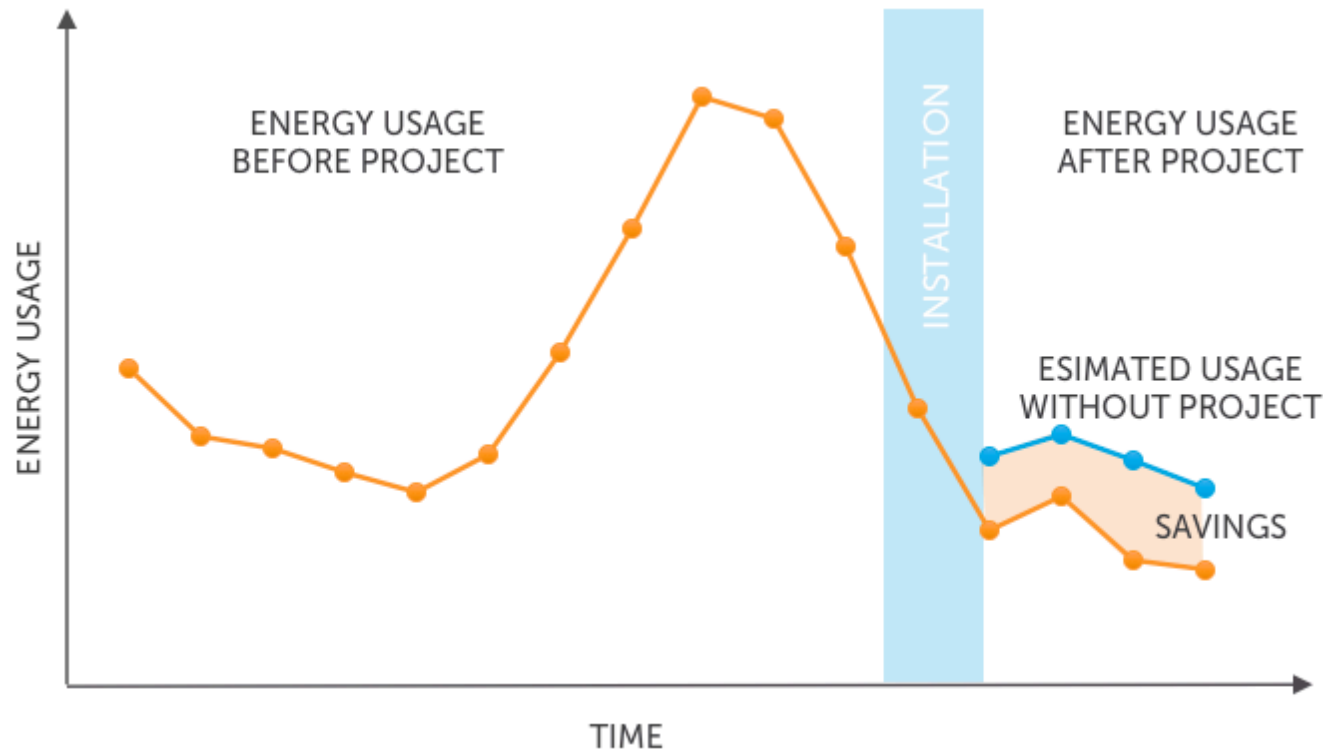
## Imprecise

Sampling, data insufficient for granular analysis

# Continuous Savings Measurement: How It Works

Billing analysis for all projects in a program, in an on-going manner, utilizing accepted M&V protocols

optix **QUANTIFY**



# Quantify Demo

⚡ METERED SAVINGS

2,064 MWh ± 270

5,000 MWh

84% Realization ± 11%

✓ 876,373 PREMISES ANALYZED

☑️ PROGRAM PROGRESS

2,845 Projects

5,500

\$801,270 Spent

\$1,537,500

📊 COST EFFECTIVENESS

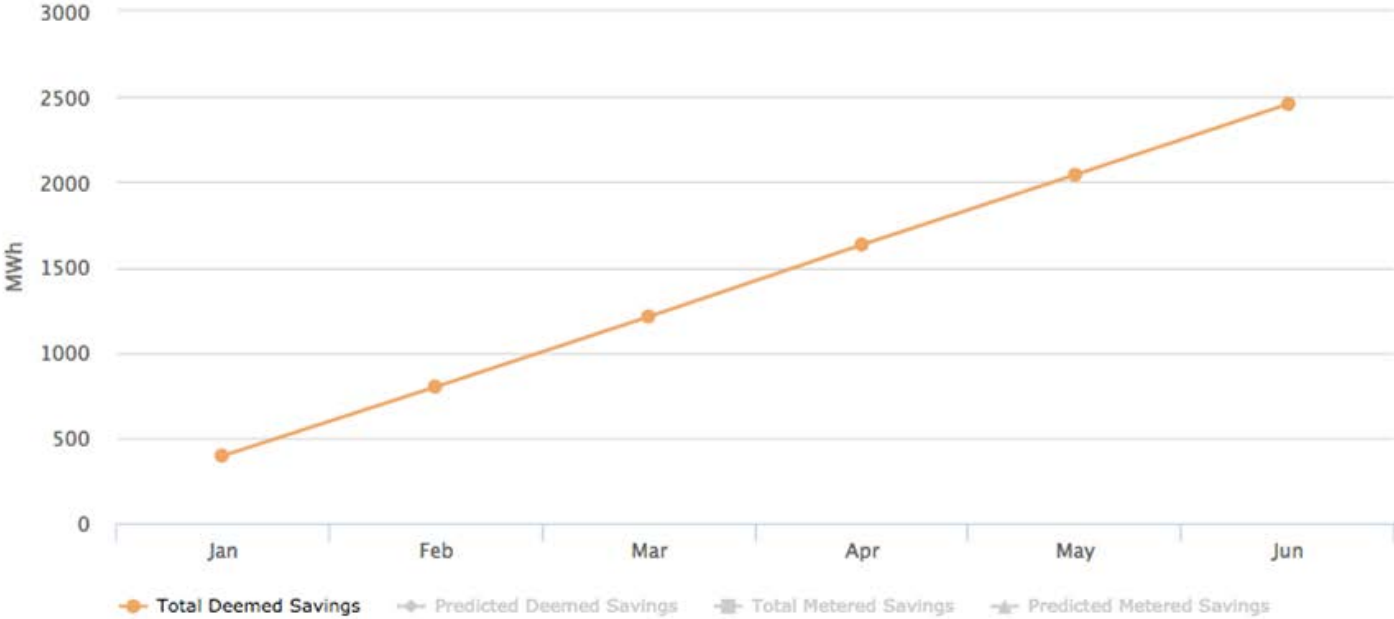
TRC 1.01

3.8¢/kWh

Avg Savings: 724kWh ± 95

Avg Project Cost: \$1,254

Program Savings



- Whole Home
- Dashboard
- Savings
- Explore

Program To Date

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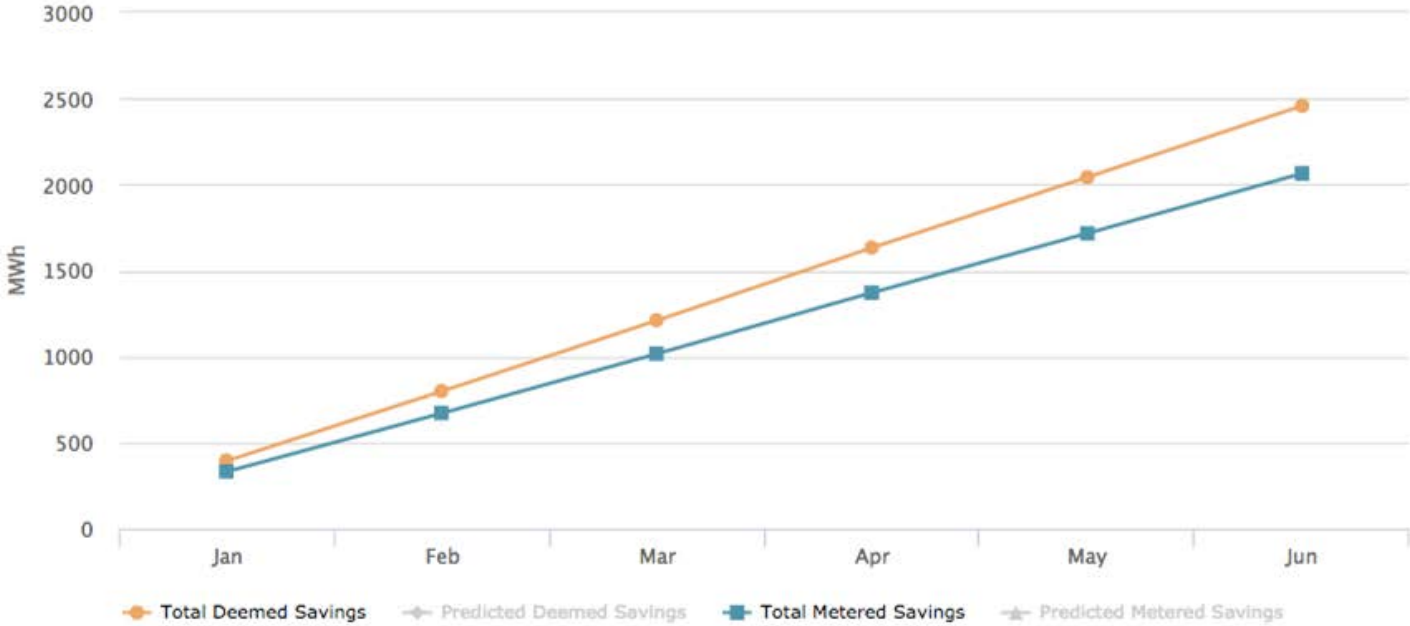
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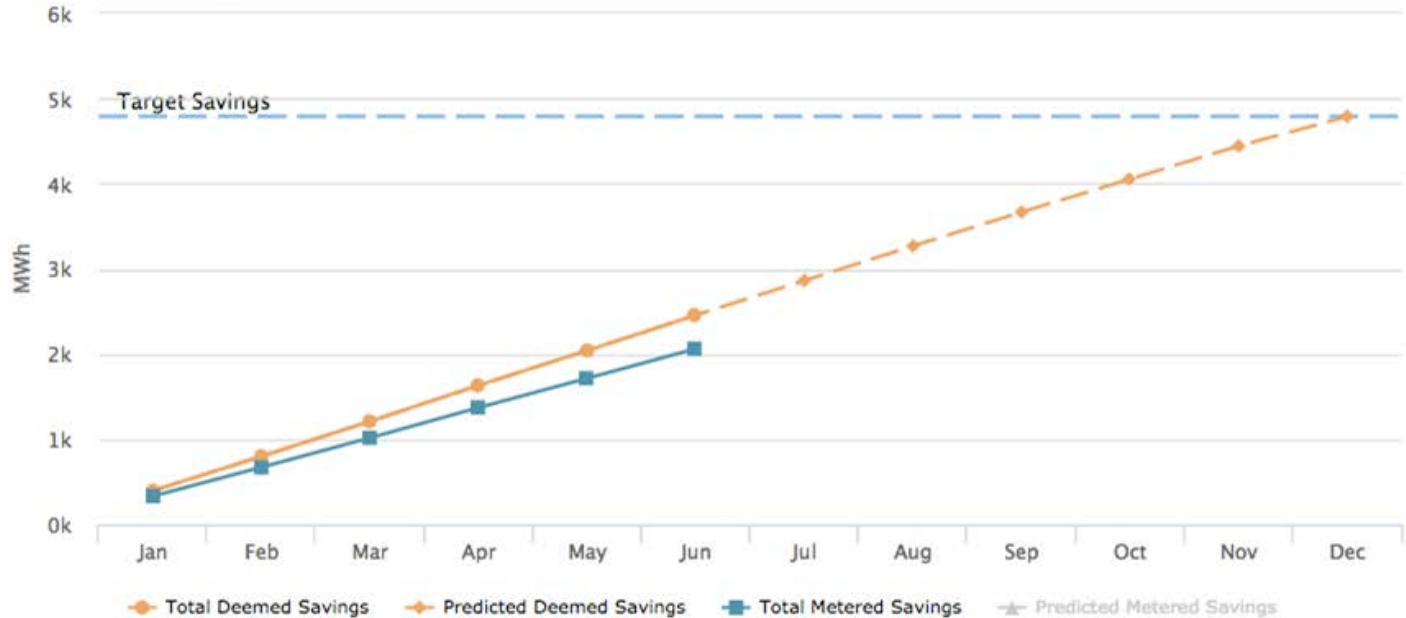
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### Program Savings





METERED SAVINGS

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PROGRAM PROGRESS

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COST EFFECTIVENESS

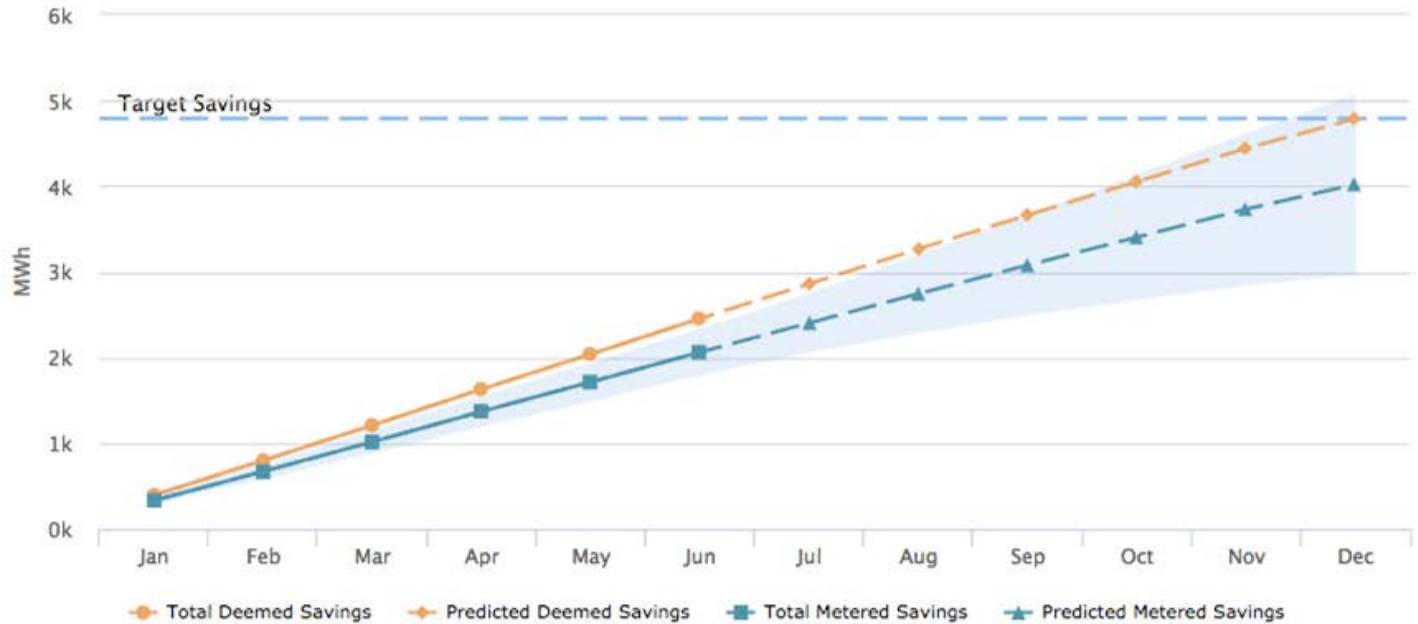
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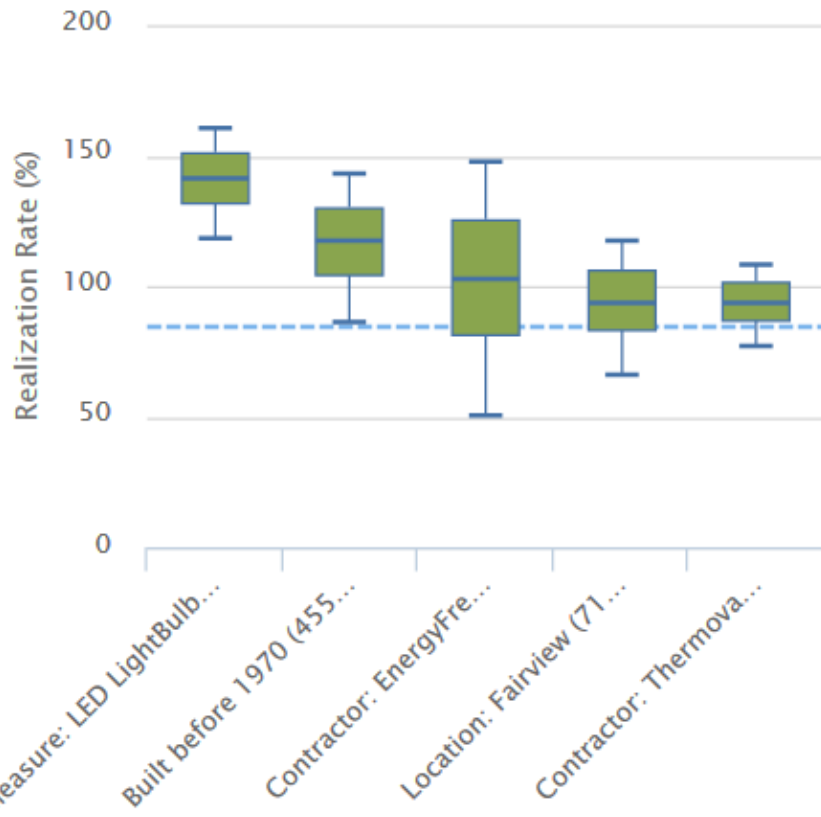
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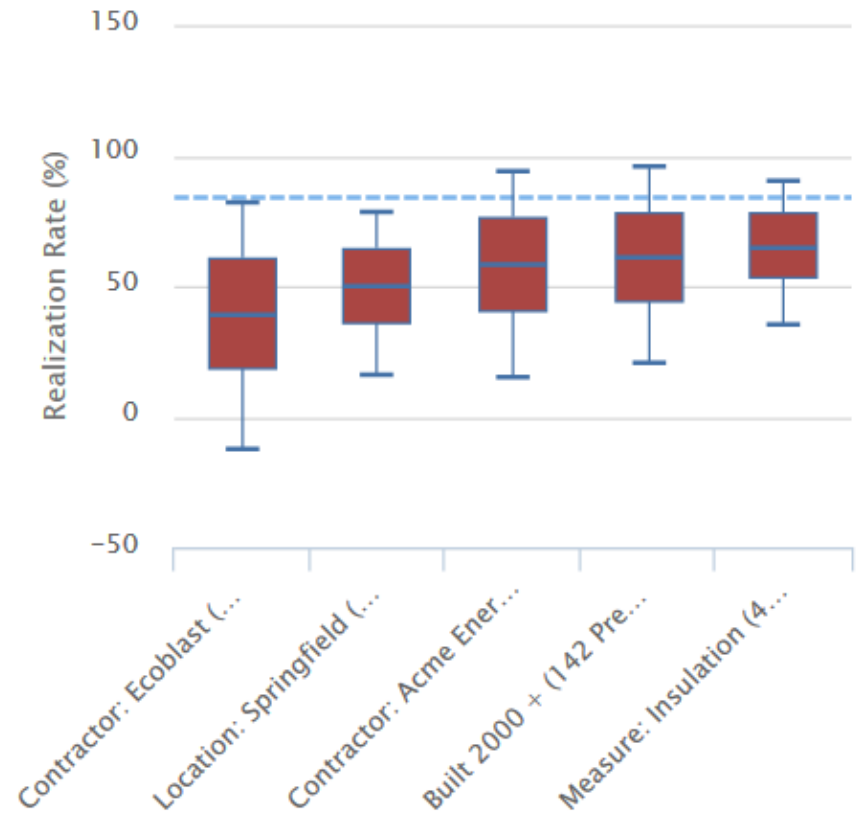
### Program Savings



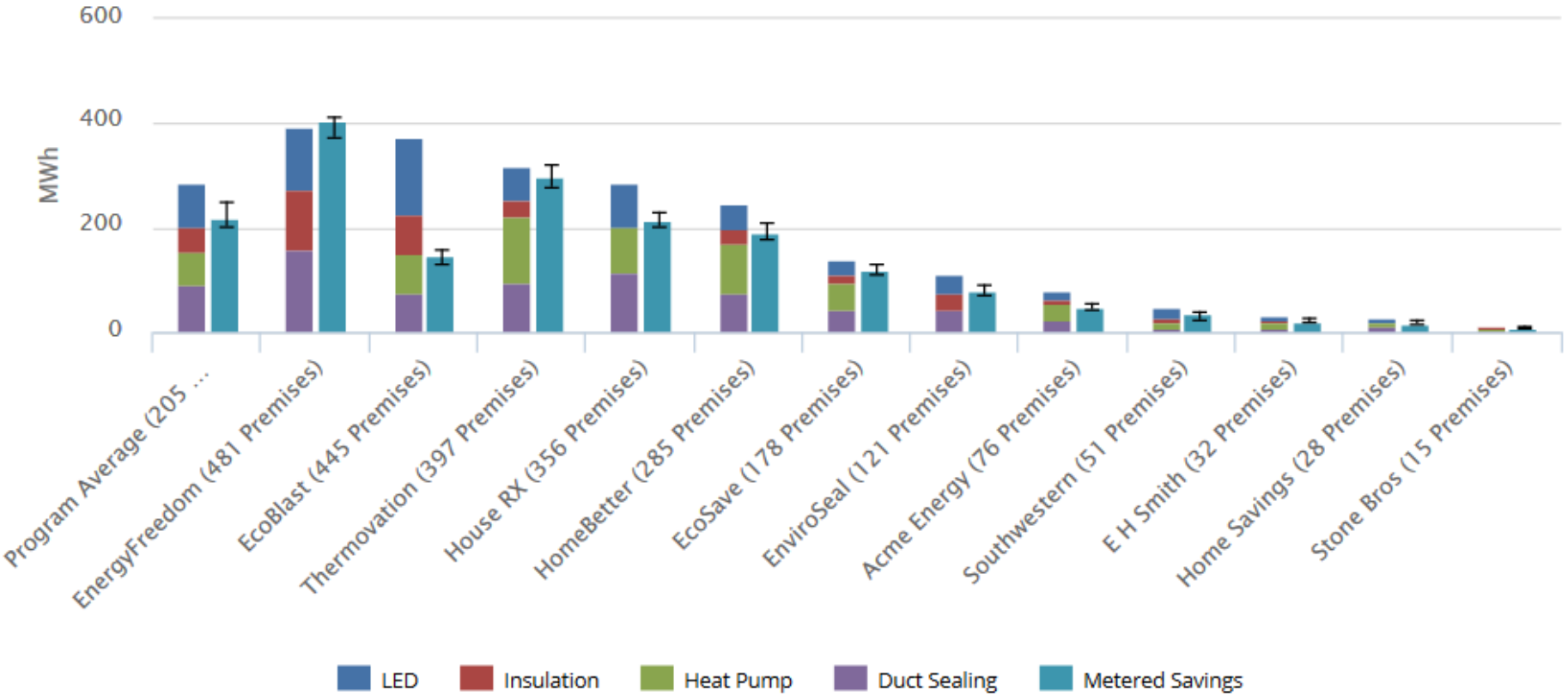
## Top Factors of Increased Savings



## Top Factors of Decreased Savings



# Savings by Contractors



Whole Home

Dashboard

Savings

Explore

Year Built

- 2000+ 22
- 1990-1999 93
- 1980-1989 138
- 1970-1979 120
- Before 1970 71

Weather Station

- Greenville 377
- Madison 427
- Springfield 534
- Fairview 711
- Auburn 797

Measure

- Duct Sealing 114
- Heat Pump 28

Program To Date

REALIZATION RATE

39% ± 43%

Overall: 84% ± 11%

NUMBER OF PREMISES

445 / 2845

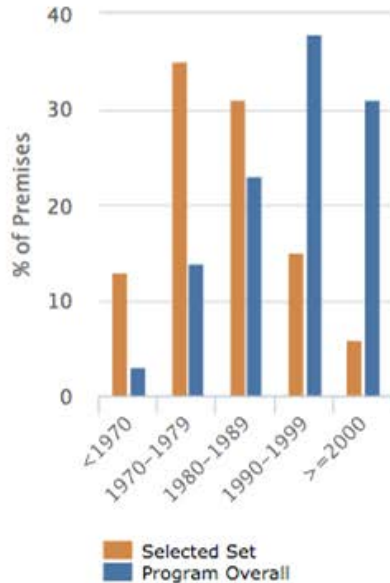
16%

METERED SAVINGS

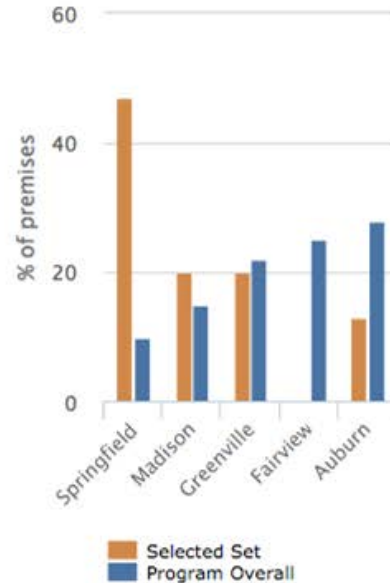
145 MWh ± 160

7% ± 8%

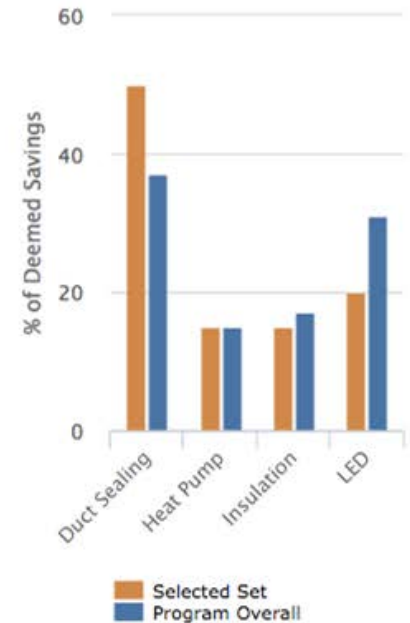
Premises by Year Built



Premises by Weather Station



Measure Mix



# What you just saw...



Metered Savings



Measure real-world impact of programs



Census Approach



Assess every project instead of sampling



Actionable Insights

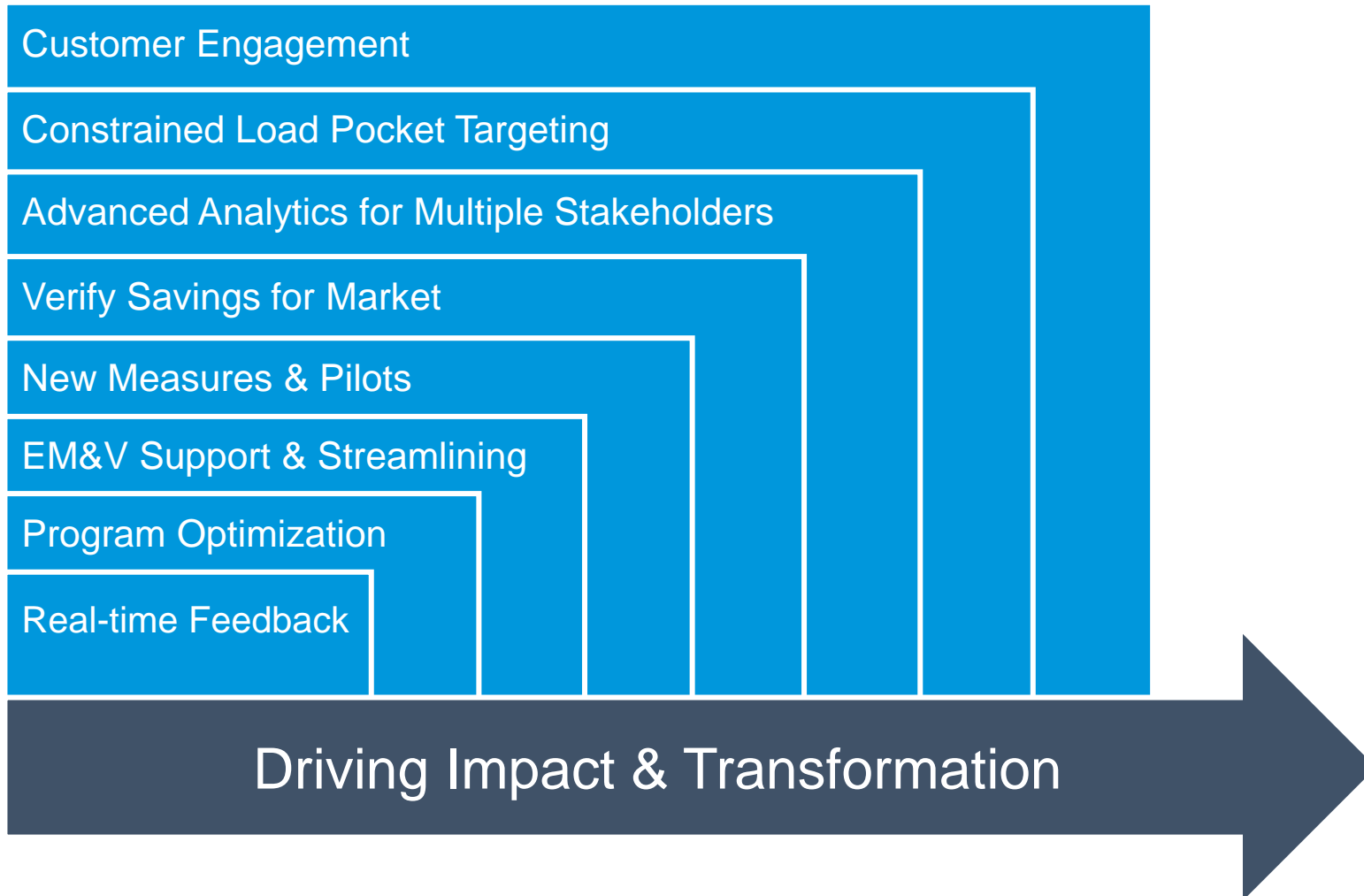


Turn data to useful information & support decisions

Measurement

Program Optimization

# How can continuous savings measurement help?







Thank You

**ENERGYSAVVY**