

The background features a light gray grid pattern and several faint, stylized power line towers. Overlaid on this are several thick, curved lines in shades of blue, purple, and orange that sweep across the bottom of the slide. The word "RECURVE" is centered in a bold, black, sans-serif font.

# RECURVE

SHAPE THE FUTURE OF ENERGY

SPEER - September 14, 2023

Carmen Best, Chief Policy Officer

A white report card is placed on a wooden desk. The card has a double-line border and the words "REPORT CARD" printed in a large, bold, serif font. A silver pen is positioned on the right side of the card, and the spine of a book is visible in the top-left corner.

# REPORT CARD





10 000008  
kWh

TYPE C2SODL2 CL200 FM2S 1.0Kh  
240V 3W CA0.5 TA 30 60Hz

DANGER

# Home Energy Rebate Programs Guidance

Office of State and Community Energy Programs





# 3.1.1.1. Measured Home Efficiency Rebates

*Four key pieces of information enable the rebate calculation*

*When a State allows rebates using a measured savings approach, the State must calculate rebates based on:*

- (1) the reported **energy savings** measured through a DOE-approved open-source advanced M&V software,*
- (2) household **income** level,*
- (3) total **project cost** reflected in the final invoice or a payment rate as defined in Table 3, and*
- (4) **home type** consistent with the definitions in sec. 2.1.*

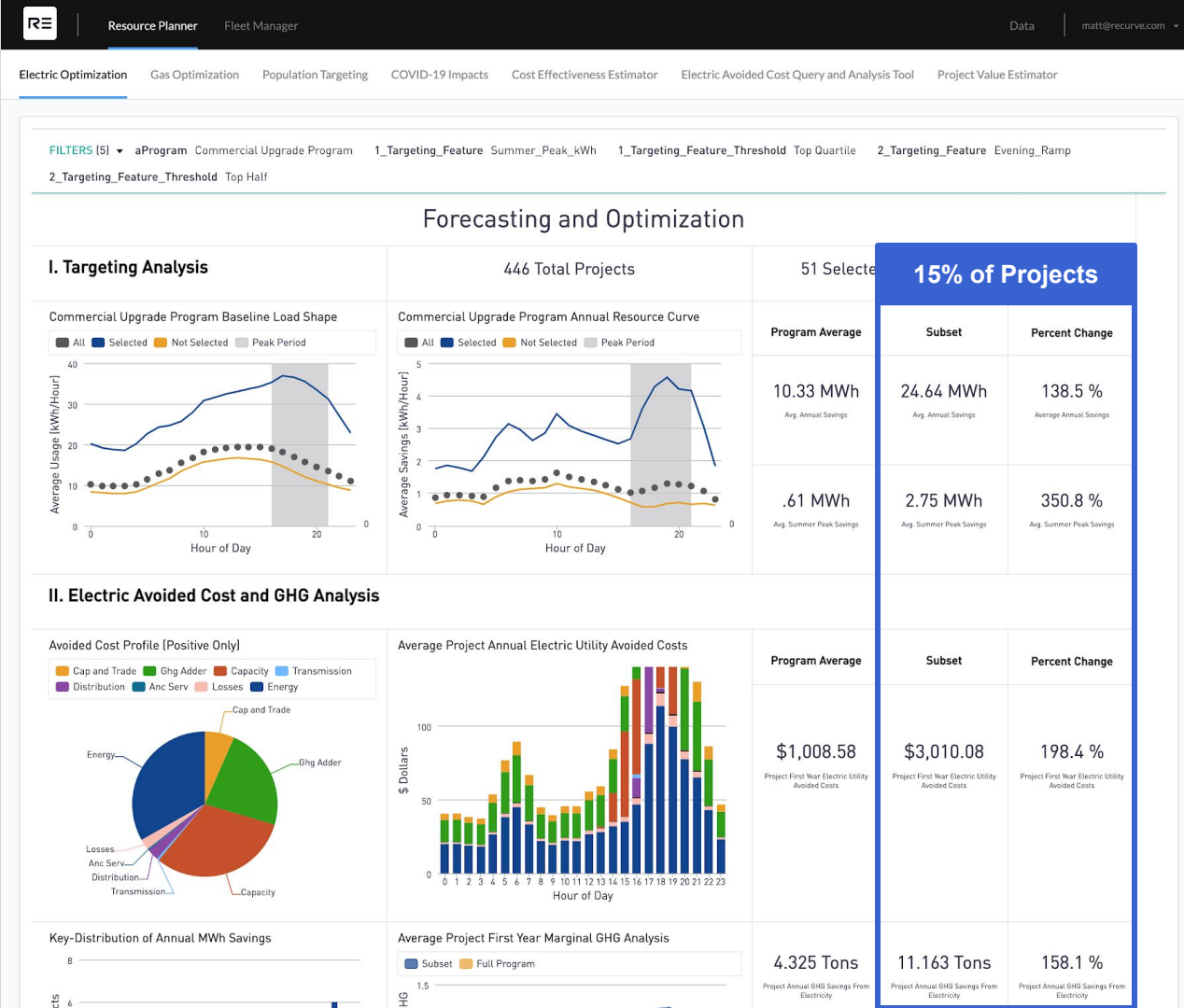
# Resource Planning

Targeting the top performing 15% of projects lead to:

- 2.5x energy savings
- 4.5x peak reduction
- 3x grid value
- 2.5x GHG savings

[Link to ComEd report](#)

**RECURVE**



# 3.1.1.1. Measured Home Efficiency Rebates

*Pay for Measured Savings based on Monthly Payable Rate*

Incentive Rate by State

State **TX**

Total IRA HOMES State Distribution	<b>\$346,022,980</b>	
Avg. Annual Household kWh	<b>13,583</b> kWh	<b>52%</b> Electric Energy
Avg. Annual Household Therms	<b>433</b> Therms	<b>48%</b> Gas Energy
Avg Annual Household Total	<b>26,278</b> kWh	

\$/kWh Equivalent Payment Rate	<b>\$0.38</b> kWh	Market
\$/kWh Equivalent LMI Payment Rate	<b>\$0.76</b> kWh	Low Income
\$/Therm Payment Rate	<b>\$11.15</b> Therm	
\$/Therm LMI Payment Rate	<b>\$22.30</b> Therm	

$$\text{Incentive Rate} = \frac{\$2,000 \text{ or } \$4,000 \text{ (LMI)}}{(20\% * \text{Avg. State Res Energy Usage})}$$

Market Rate pays up to 50% of project cost and upto 80% for low income.

Rebates paid for homes or a portfolio of homes that achieve measured energy savings of at least 15%

[Link to Access Calculator](#)

## 3.2.4.2 Calculating Measured Energy Savings

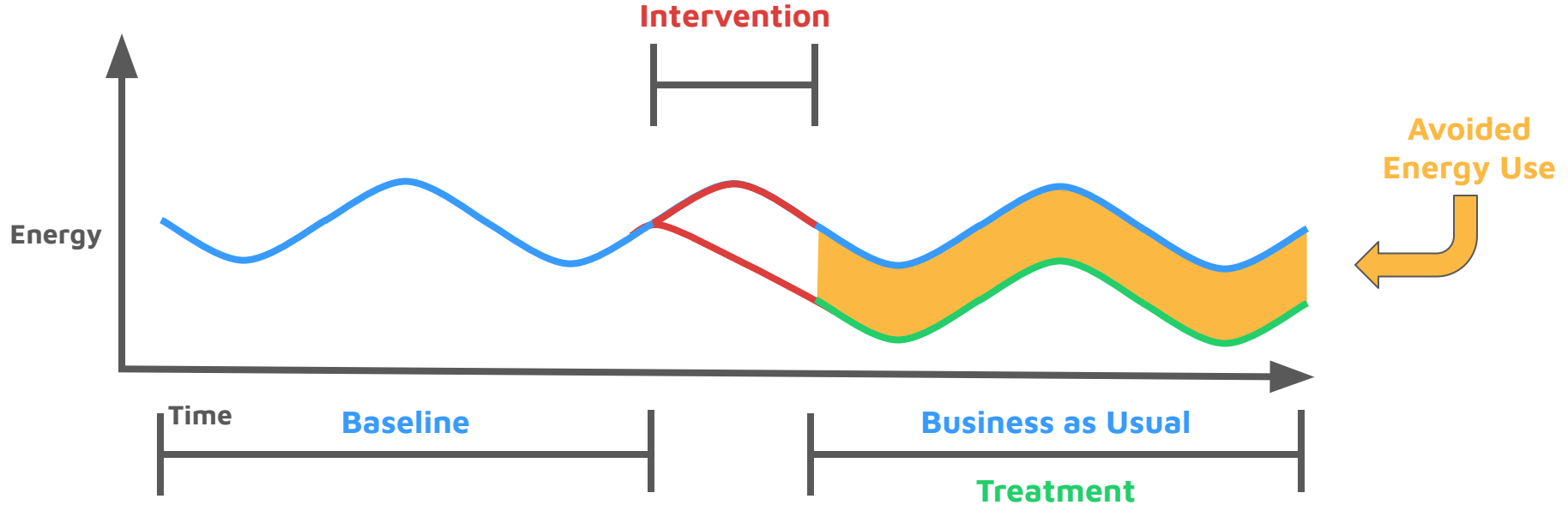
### *Key Expectations & Requirements*

- Uses **open-source advanced M&V software** as approved by DOE that includes capabilities for determining and documenting **weather-normalized energy use** of a home or portfolio of homes **before and after** the implementation of home energy upgrades.
- **Defines, calculates, and reports** energy savings for the purposes of the rebate threshold as kWh or kWh equivalent as defined in Section 2.1.
- Calculates **actual** home- or portfolio-level savings **no less than 9 months** after the final installation in the home or portfolio [to ensure capturing seasonality]
  - If aggregators are providing rebates based on estimated savings, **the risk of recovering costs based on actual reported savings** must be borne by the aggregator.
- **Collects and reports the data** and information required in the [Data & Tools Requirements Guide](#).



# Open-Source Advanced M&V at the Meter

*Accurate methods and publicly available code*



# Track & Monitor Performance

Site-level metering and analytics for every project in a portfolio

- Optimization
- Channel management
- Reporting / Audit Trail

Resource Planning **Fleet Management**

Data mcgee@recurve.com

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Portfolios / Performance

Residential P4P Program 20200818 Synthetic residential data demonstrating a few key commercial P4P program use cases

Savings type:  Historical  Normal Year

**Combined electricity and gas resource curve by month shown against baseline (MMBTU/Day)**  Baseline

Baseline Usage Lower Reporting Usage Higher Reporting Usage

MMBTU

Month

807 projects Created: Sep 8, 2020 | Last Updated: 14 days ago

**4,208 MMBTU ±3.112%**  
Combined EEmetered Savings

No Data Combined Predicted Savings  
No Data Combined Realization Rate

7.746% Combined Savings  
54,330 MMBTU Combined Counterfactual

**12 months**  
Combined Project Maturity

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807 Projects

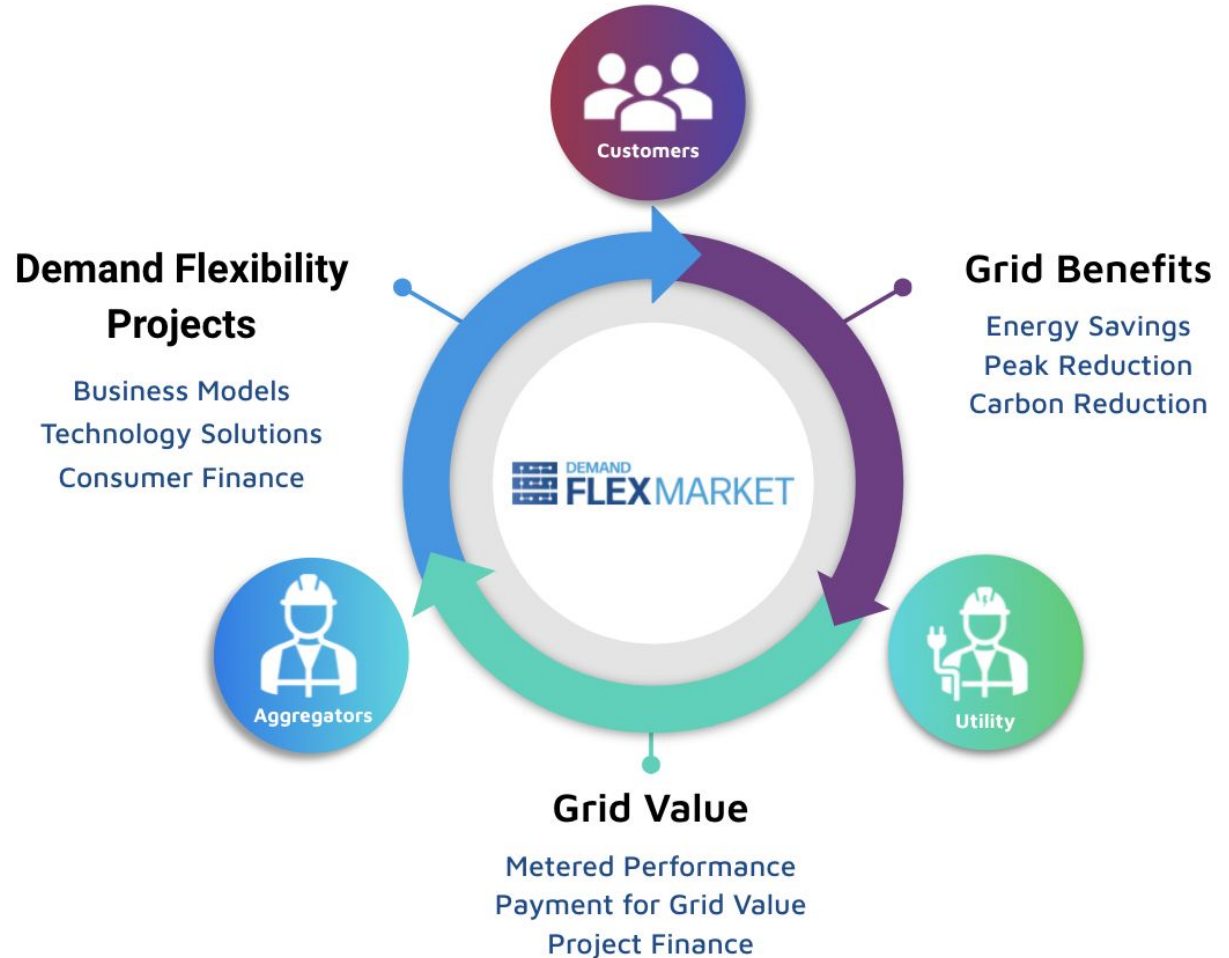
Showing 1 to 10 of 807 Projects Prev Next

PROJECT ID	SITE	INTERVENTION ACTIVE DATE	ELECTRICITY PERCENT SAVINGS	GAS PERCENT SAV
AV-50698		Nov 05, 2018	1.493%	29.25%
DY-08927		Oct 04, 2018	29.2%	1.682%
AS-43357		Jan 07, 2019	19.56%	13.98%
AK-46944		Sep 14, 2018	24.62%	13.79%
AS-62768		Jan 31, 2019	25.24%	12.65%
AT-17429		Jan 15, 2019	6.356%	18.97%
CB-52172		Dec 05, 2018	18.54%	6.014%
AS-17224		Jan 22, 2019	17.49%	2.351%
AS-57955		Jun 05, 2018	13.46%	17.62%
AV-55554		Apr 28, 2018	32.63%	-34.88%

# Actionable Intelligence

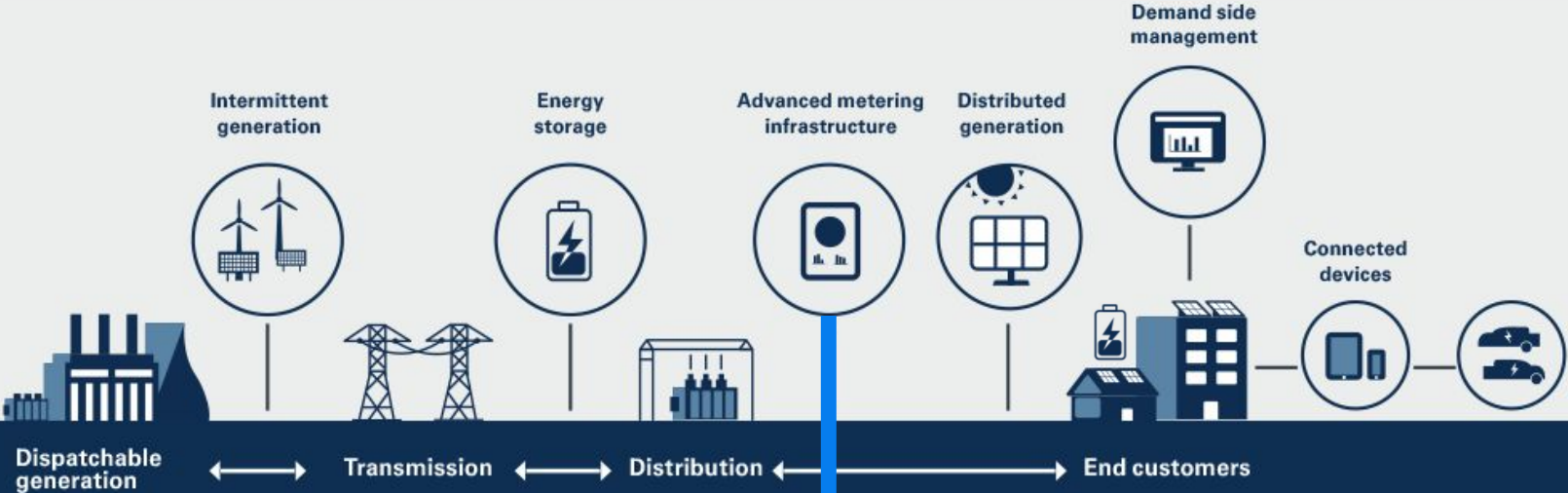
*Positive Feedback for optimal performance*

RECURVE



# Leveraging All Resources for A Reliable Future

**Supply = Demand**



**Supply: Energy Resources**

**Demand: Load Modifying Resources**