

Applying an Audience of One approach to better understand and serve LMI customers

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E Source



We understand utilities because we've made them our business for more than 35 years.



Research and Advisory

Using market research data, expert analysis, and industry experience, we help utilities put their customers first and meet their business objectives

Data Science

Applying predictive data science to help electric and gas utilities make data-driven decisions that improve their bottom line and increase customer satisfaction

Solution Services

Advancing business and technology solutions that strategically enhance operations for utilities

Setting the stage



37.2 million low- and moderate-income (LMI) households in the US



Programs are not optimized for LMI customers



Inflation is taking away small gains in income



Using data science and ethnography to better serve LMI customers



Case study overview: Project objectives

Improve or create programs
that help LMI customers
manage and pay their bills

Help LMI customers reduce their
energy burden



Develop programs that meet
both known and unknown needs

Project approach

Target customers were initially defined using 300% of the federal poverty level



LMI customer
cohort creation



Ethnographic
market research
with LMI cohorts



Collaborative
design-thinking
workshop

Apply the E Source Audience of One approach to utility customer data to develop “like” groups of LMI customers

Bring LMI cohorts to life through ethnographic market research

Generate customer-centric solution concepts based on customer wants, needs, and challenges

Creating LMI customer cohorts

Goal: Differentiate customers based on behaviors and key interactions with their utilities

Arrears

Arrears cycles

Monthly arrears
amount

Time spent in arrears

Time spent with
increasing arrears

Disconnects

Number of
disconnects

Number of 2nd order
disconnects

Percentage of 1st
orders leading
to 2nd orders

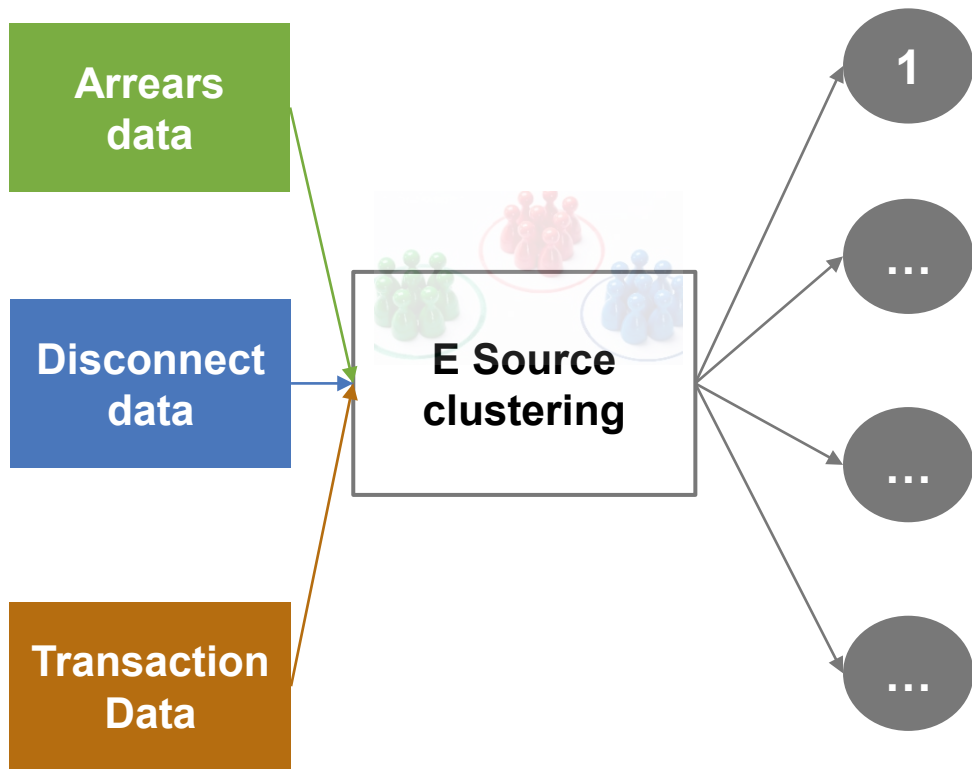
Transactions

Number of
calls

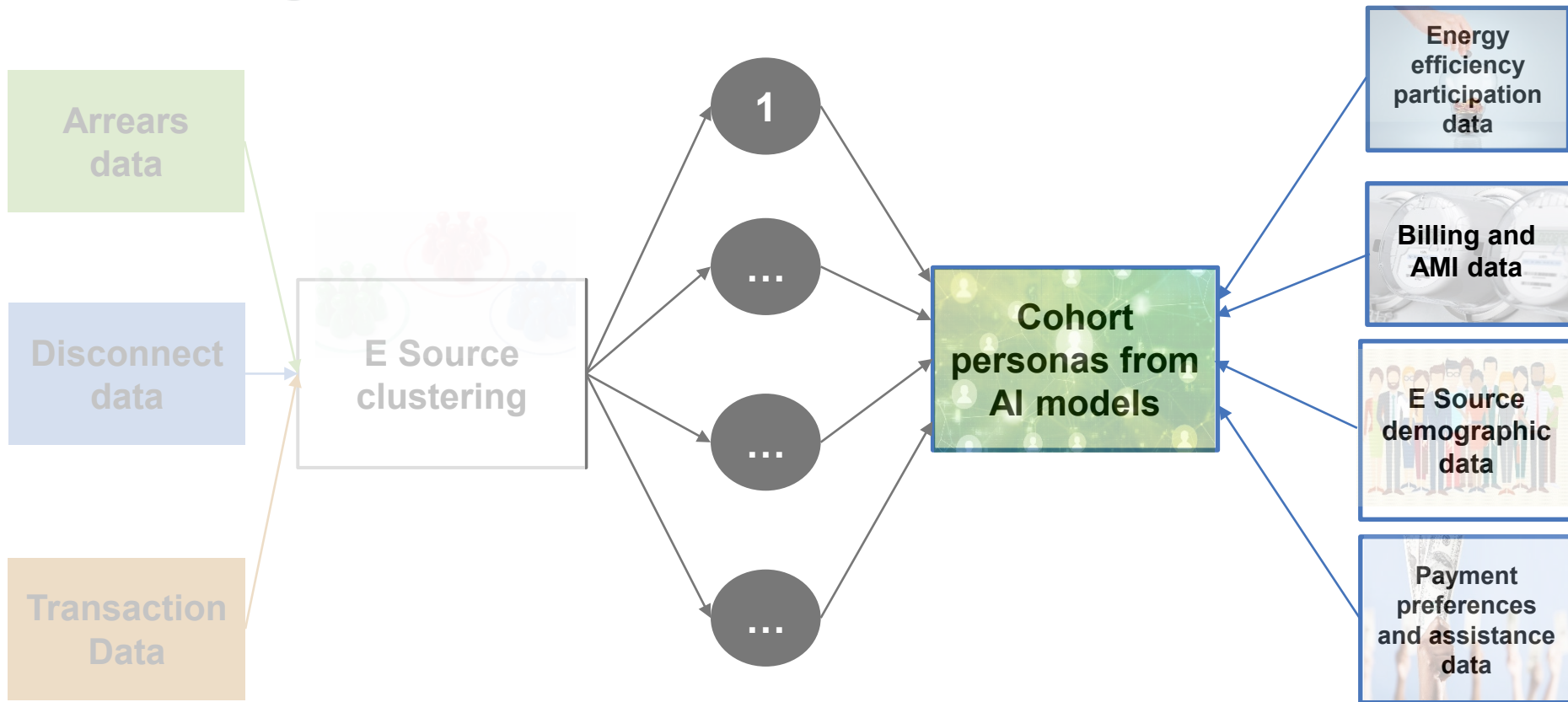
Payments

Payment
assistance

Creating LMI customer cohorts: Part 1



Creating LMI customer cohorts: Part 2



LMI cohort distribution

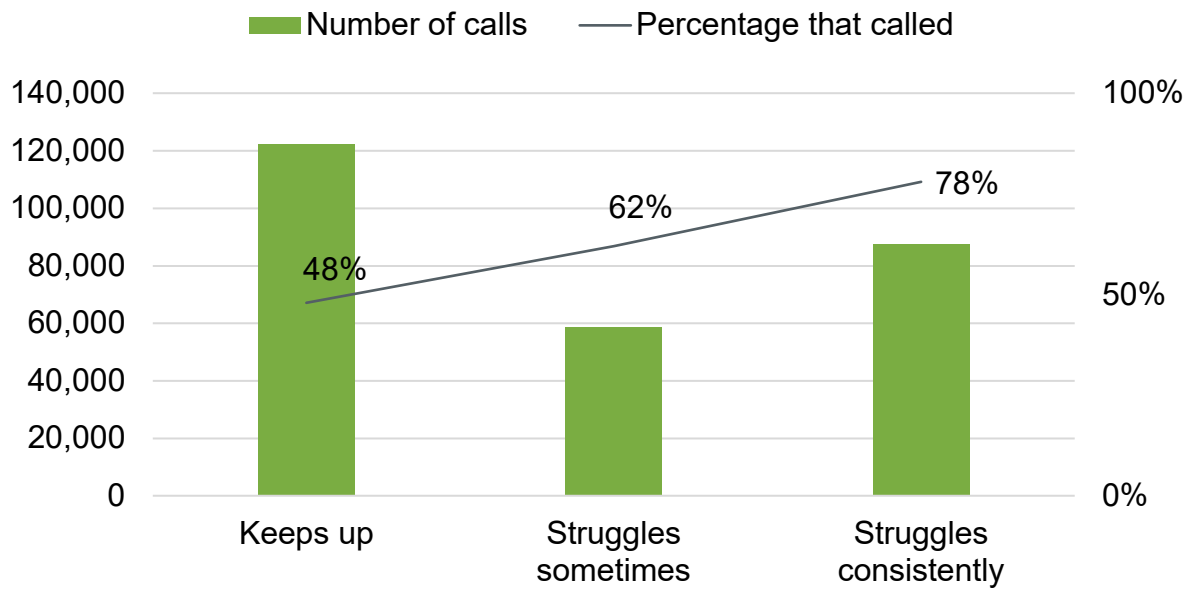
LMI cohort	Utility 1	Utility 2	Utility 3	
1	17% 126,801	61% 644,671	80% 101,314	Keeps up with utility bill
2	40% 288,001	16% 167,704	13% 16,654	Struggles occasionally or often
3	15% 105,648	11% 112,254	7% 9,296	Struggles consistently
4	15% 107,946	12% 128,325		
5	13% 97,241			

Key takeaways

- Data confirmed that LMI customers do not struggle the same
- Each utility parsed cohorts who *struggle the most* to pay their bill
- Compared to those who keep up with their bills, those who struggle the most, generally:
 - Contact their utility more often
 - Participate in energy efficiency programs at lower rates
 - Are more weather sensitive (particularly higher energy use for electric heating)
 - Live in older homes with lower market value
 - Have younger heads of household

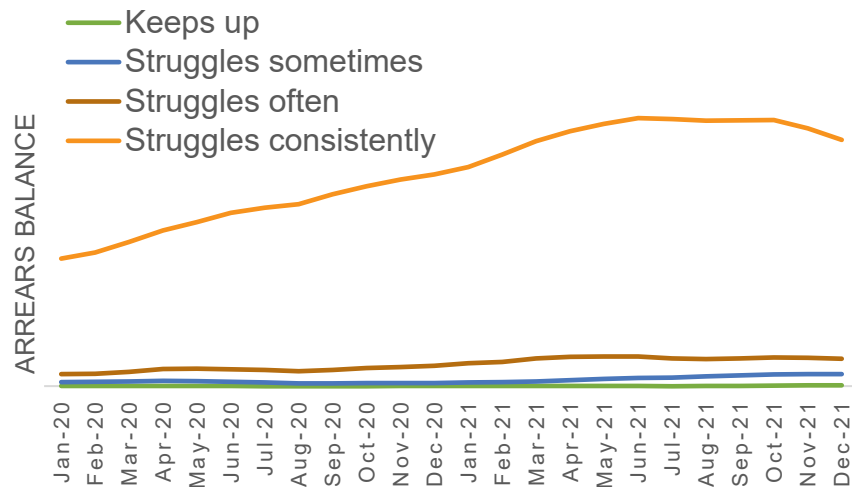
Example insight: LMI cohorts who struggle more, call more

Cohort	Calls per customer (2020–2021)
Keeps up	1.2
Struggles occasionally	3.5
Struggles consistently	9.4

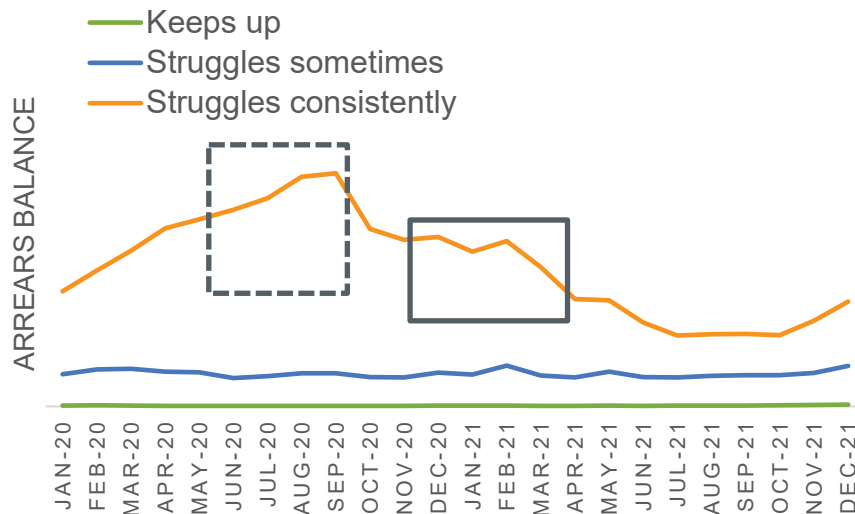


Example insight: Moratoriums' notable impact on those who struggle most

Utility A



Utility B



Example demographics

		Keeps up 1	Keeps up 2	Struggles occasionally	Struggles often	Struggles consistently
Demographics	Mean age (head of household [HOH])	52		47	49	47
	Mean income	\$59,600	\$55,000	\$50,800	\$52,200	\$49,700
	Median percentage of federal poverty level	233%	233%	196%	201%	194%
	Education (percentage postsecondary)	20%	15%	9%	11%	7%
	Energy burden (utility bill / monthly income)	Lowest		Second highest	Third highest	Bills likely too high for income
Financials and lifestyle		More likely to be a community bank customer		Unlikely to be in the market for a home loan		Most likely to be qualified for Medicaid
		Likely to work after retirement		Likely to switch jobs and continue working after retirement age		
		Equally likely to be bargain or what's-on-sale shopper as others		Frequent ATM user and more likely a rewards-cash-back user		

Why ethnographic research?

- Allows you to understand people's beliefs, experiences, attitudes, behaviors, and interactions
- Allows contextualization of data insights
- Helps instill empathy for customers
- Helps mitigate assumptions or minimize one-size-fits-all approaches to customer challenges



Our guest speakers



Rasheeda Davis

Director, Market Segmentation
& Growth, National Grid



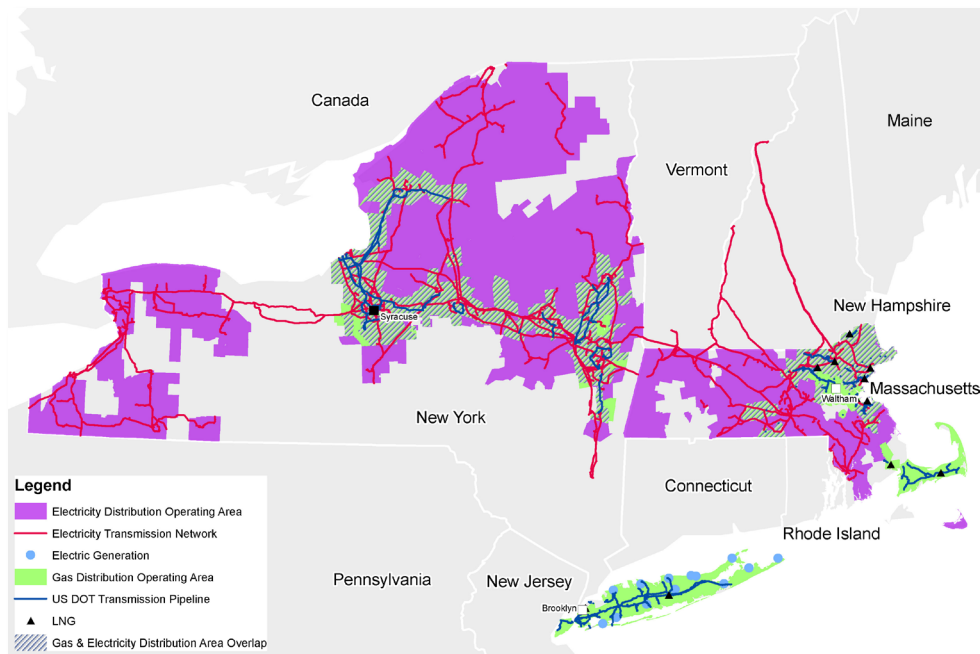
Sandra Alvarado

LMI Strategist, Market
Segmentation & Growth,
National Grid

About National Grid

nationalgrid

We are one of the largest investor-owned energy companies in the US, serving more than 20 million people throughout New York and Massachusetts.



Serving 20 million people

5.3M Residential + 600k Commercial
= 5.9 million customer accounts

Residential & Commercial
customers by region:



2.3 million



3.6 million

UNY 1.7 million
LI 0.6 million
NYC 1.3 million

What our project participants are doing next

- Taking solution concepts forward through tests and pilots
- Leveraging data and insights to advocate for improved LMI policies and solutions
- Going deeper on LMI customer analysis to create subcohorts for those who struggle the most

What *you* should do next

- Segment your LMI customer group
- Understand their needs and wants as individuals
- Reexamine your utility's LMI offerings based on customer feedback
- Identify areas where you can improve outcomes for LMI populations

Where are you on your LMI journey?

Equity and LMI
strategy
development
and deployment

LMI stakeholder
engagement
and trust-
building

Segmenting
LMI population

LMI solution
design

Internal cultural transformation and change management

E Source can meet you where you are on this important journey!
Schedule a discovery call with us to find out how E Source can help you.

Contact us



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