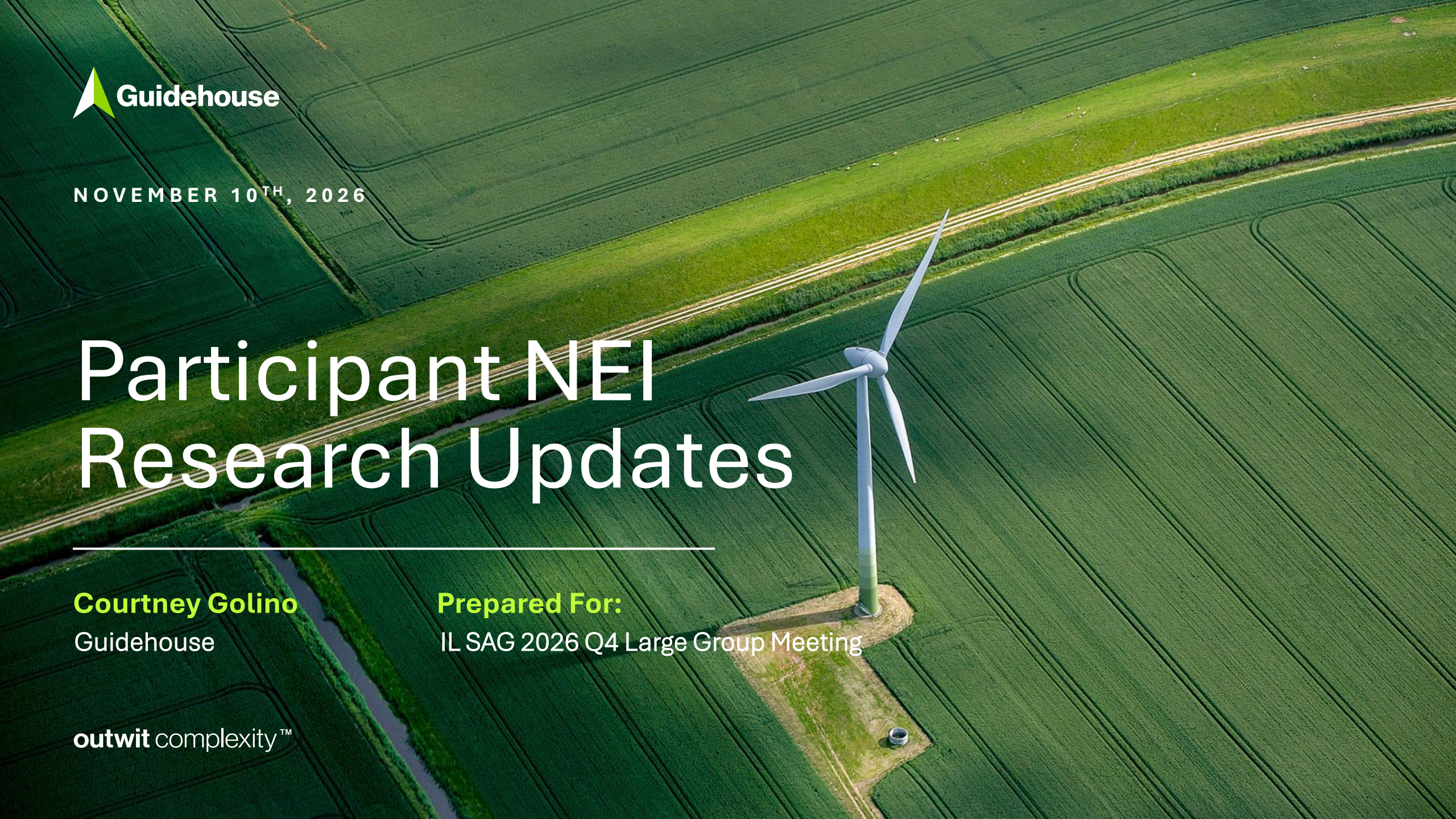


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NOVEMBER 10TH, 2026

Participant NEI Research Updates

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Guidehouse

Prepared For:
IL SAG 2026 Q4 Large Group Meeting

outwit complexity™

Agenda



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Project Overview and Schedule

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Survey Progress Update

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Project Overview and Schedule

Guidehouse is researching participant non-energy impacts (NEIs) in ComEd's Income-Eligible (IE) Programs



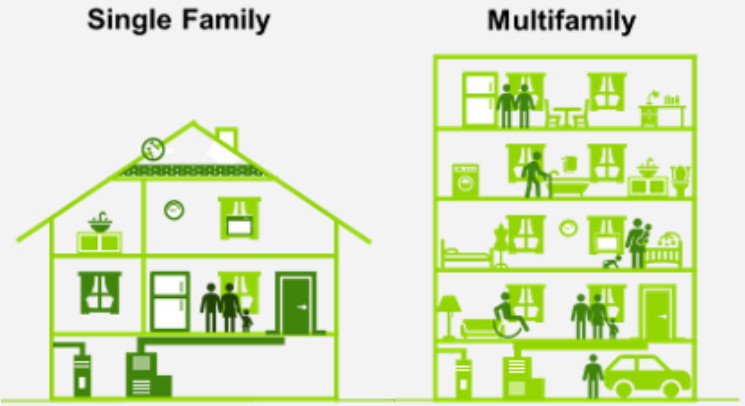
Single-Family Energy Savings – CBA and IHWAP*



Multifamily Energy Savings - Income Eligible, Public Housing, and IHWAP*

Home energy upgrades include:

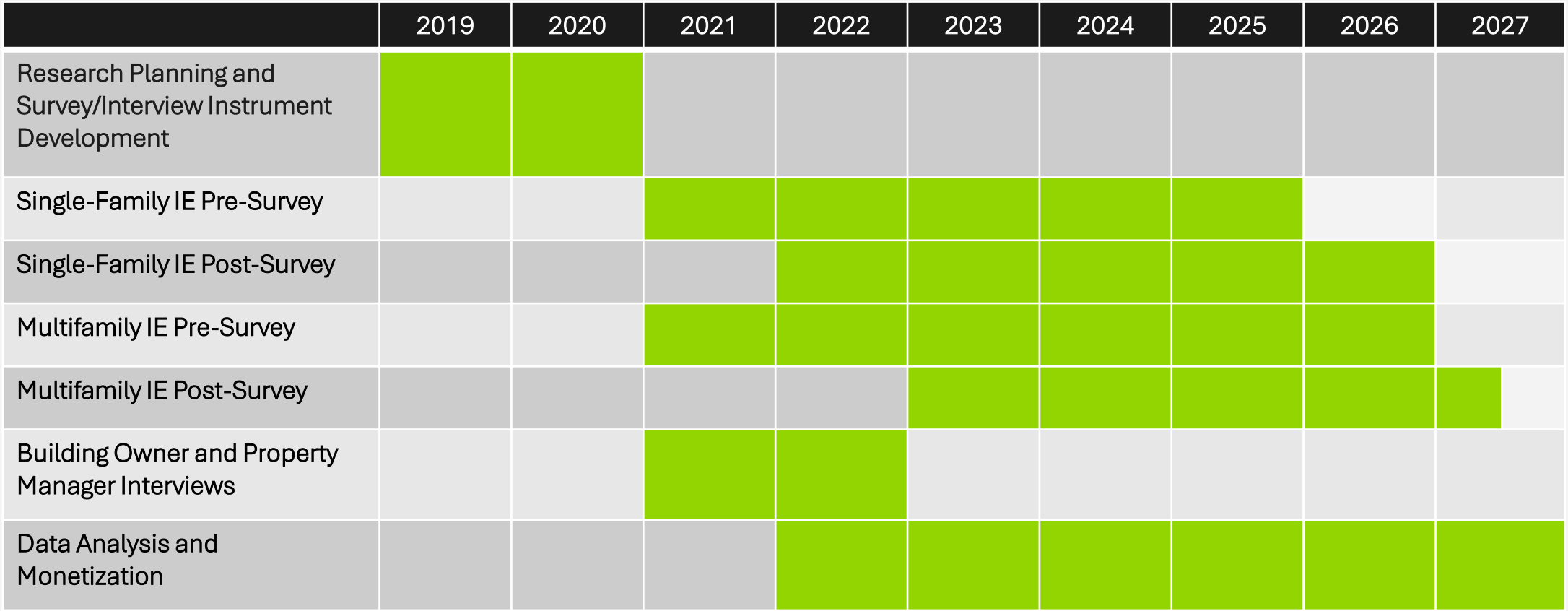
- HVAC system upgrades and replacements
- Energy efficient room air conditioners and refrigerators
- Smart thermostats and advanced power strips
- Energy efficient water heaters
- Low-flow faucet aerators
- Boiler replacement and tune ups
- Steam trap testing, repair, and replacement
- Variable speed motor drives
- Air sealing and insulation
- Health and safety measures necessary to make the energy upgrades



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*Chicago Bungalow Association (CBA); Illinois Home Weatherization Assistance Program (IHWAP)

Participant NEI Research: Ongoing and Evolving



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Methods Update

Evaluating Participant NEIs

Guidehouse is implementing adjustments to monetization values for healthcare costs.

Anticipated Participant NEIs

- ✓ Reduced medical costs associated with asthma and arthritis, and from improvements to air sealing, insulation, and HVAC
- ✓ Fewer missed days of work and school





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Monetization Values for Health Conditions

Guidehouse is updating the value assigned to reduced medical costs associated with asthma and arthritis.

Surveyed Data	Health Condition	Associated Cost Dataset
Number of visits to urgent care clinic or doctor's office	Asthma	CDC estimated annual incremental medical cost by asthma status, Outpatient Visits Medical Service Type[1]
	Arthritis, including osteoarthritis, rheumatoid, fibromyalgia, and lupus	MEPS. Average office-based physician visit (primary care)[4]
Number of visits to emergency room (ER), but not stay overnight	Asthma	CDC estimated annual incremental medical cost by asthma status, Emergency Room Medical Service Type[1]
	Arthritis, including osteoarthritis, rheumatoid, fibromyalgia, and lupus	HCUPnet Treat-and-release ED visits for rheumatoid arthritis and related disease. Osteoarthritis, and Infective arthritis, Average Hospital Costs per ED Visit in Illinois[2]
Number of visits to the hospital and stay overnight	Asthma	CDC estimated annual incremental medical cost by asthma status, Inpatient Stay Medical Service Type[1]
	Arthritis, including osteoarthritis, rheumatoid, fibromyalgia, and lupus	MEPS Expenses for Hospital Inpatient stays, 1-night[3]
Use of emergency inhaler	Asthma	CDC Estimated annual incremental medical cost for prescription medications[1]

Sources:
1. CDC. Asthma Cost Calculator. https://www.cdc.gov/national-asthma-control-program/php/cost-calculator/index.html. Medical service type used to calculate the number of visits for respondents. Weighted Illinois mean between controlled and uncontrolled asthma used to calculate prescription medications.
2. HCUPNet. Average Hospital Costs per ED Visit (in $), Illinois, 2006 to 2023. https://datatools.ahrq.gov/hcupnet/
3. MEPS. STATISTICAL BRIEF #401, 2010 and adjusted to 2026$. https://meps.ahrq.gov/data_files/publications/st401/stat401.shtml.
4. MEPS. Mean and median expenses per office-based physician visit by specialty (Figure 1). https://meps.ahrq.gov/data_files/publications/st517/stat517.shtml

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Monetization Values for Missed Work

Guidehouse is updating the value assigned to participant-reported missed workdays associated with asthma and arthritis.

Surveyed Data	Health Condition	Associated Cost Dataset
Days of Missed Work	Asthma	CDC estimated per patient and aggregate medical and missed-workday cost, Illinois – Missed Workday Cost (annual per-person) Outpatient Visits Medical Service Type[1]
	Arthritis, including osteoarthritis, rheumatoid, fibromyalgia, and lupus	The Employee Absenteeism Costs of Rheumatoid Arthritis[2]

Sources:

1. CDC. Asthma Cost Calculator. https://www.cdc.gov/national-asthma-control-program/php/cost-calculator/index.html. Cost of missed work equates to the weighted average of uncontrolled and controlled asthma in Illinois. Adjusted to 2026$
2. Candace Gunnarsson, et al. “The employee absenteeism costs of rheumatoid arthritis: Evidence from US national survey data.” https://researchconnect.suny.edu/en/publications/the-employee-absenteeism-costs-of-rheumatoid-arthritis-evidence-f/. Adjusted to 2026$ and used as proxy for all arthritis conditions.

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Survey Distribution Update

Outreach Strategy

Guidehouse added the post-intervention survey interval of 6 months to increase likelihood that respondents still resided in the same apartment building at follow-up.

Direct Mailings

In 2026, Guidehouse mailed pre-intervention survey invitations directly to tenants to boost responses.

The team mailed postcards to verified to individual apartment units, with each unit receiving a unique PIN to complete the survey.

Shorter Duration of Post-Intervention Surveys

For participants who completed a pre-intervention survey in 2026, Guidehouse plans to distribute post-intervention surveys 6 months after the pre-intervention survey since occupants are more likely to reside at the same address.

In 2025, Guidehouse used a 1-year follow-up interval for distributing post-intervention surveys.

Added Post-Intervention Only for Future Distributions

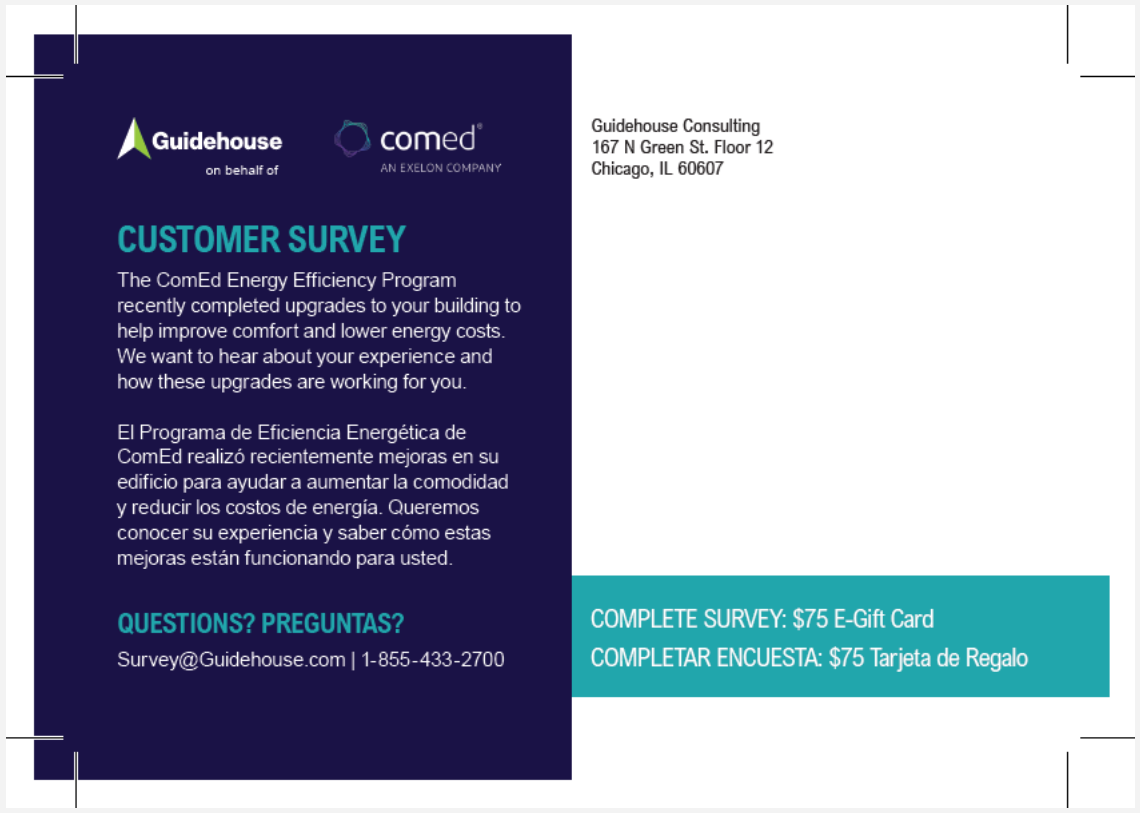
Even for participants who did not respond to the pre-intervention survey sent in 2026, Guidehouse will distribute a post-intervention only survey *at 6 months* to capture information from residents about previous and current medical costs in a single survey.

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Postcard Design

Individualized postcards are mailed to verified apartment units, with a unique PIN for each pre-survey invitation.





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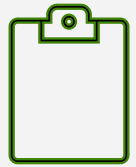
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Survey Progress Update

Participant NEI Survey Status: Single-Family

We saw a response rate of 22% for respondents (n=58) who were sent a post-intervention survey after completing a pre-intervention survey (n=265) for the Single-Family survey.

	Pre-Intervention Survey:	Post-Intervention Survey:
Fielded surveys	369	265
Completed surveys*	314	58
Partial* or screened out	44	18
Asthma observations**	48	21
Arthritis observations**	94	44



- Surveys have been fielded since 2021, and post-intervention surveys have been fielded since 2022. Post-intervention surveys are distributed approximately a year after completing the pre-intervention survey.
- Guidehouse is targeting 80 observations of both asthma and arthritis in participants.

*Completed surveys comprise of responses that have more or equal to 90% progress on the survey and are not screened out.
Partial surveys comprise of responses that have less than 90% progress on the survey and are not screened out.
**Asthma and arthritis observations are the sum of adults and children with the conditions in the residence.

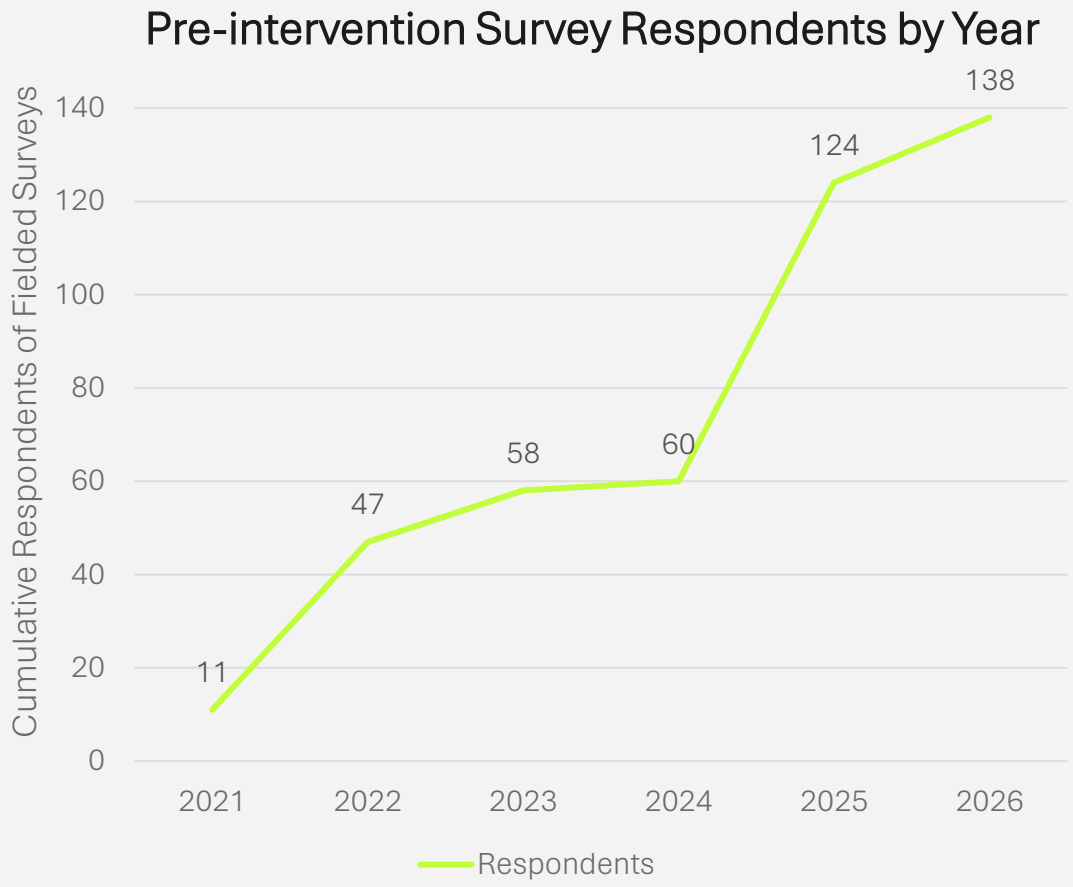
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Participant NEI Survey Status: Multifamily

We saw a response rate of 2% for respondents (n=1) who were sent a post-intervention survey after completing a pre-intervention survey (n=46) for the Multifamily survey.

	Pre-Intervention Survey:	Post-Intervention Survey:
Fielded surveys	138	46
Completed surveys*	68	1
Partial* or screened out	15	5
Asthma observations**	13	0
Arthritis Observations**	19	3

*Completed surveys comprise of responses that have more or equal to 90% progress on the survey and are not screened out. Partial surveys comprise responses that have less than 90% progress on the survey and are not screened out.
**Asthma and arthritis observations are the sum of adults and children with the conditions in the residence.



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Multifamily Response Challenge and Recovery Plan

Lessons Learned

- Multifamily baseline engagement improved following higher-touch outreach with Franklin and in-person events in September and October 2025.
  - While Fall 2025 in-person outreach was somewhat successful, the events were resource-intensive, and the results did not justify additional field events.
- Multifamily post-survey participation remains the principal data-collection focus.
- Participation at the unit level in multifamily is not available in the tracking data consistently.
- Projects are often assigned to single unit or address.

Actions Underway

- Mail individualized survey postcards to approximately **760 verified multifamily units** in the first wave.
- Continue reviewing properties with address or unit-count discrepancies for a potential second wave.
- Use a six-month follow-up interval for eligible baseline respondents to reduce loss caused by residential mobility.
- Launch a post-intervention-only framework using recalled pre-intervention conditions.

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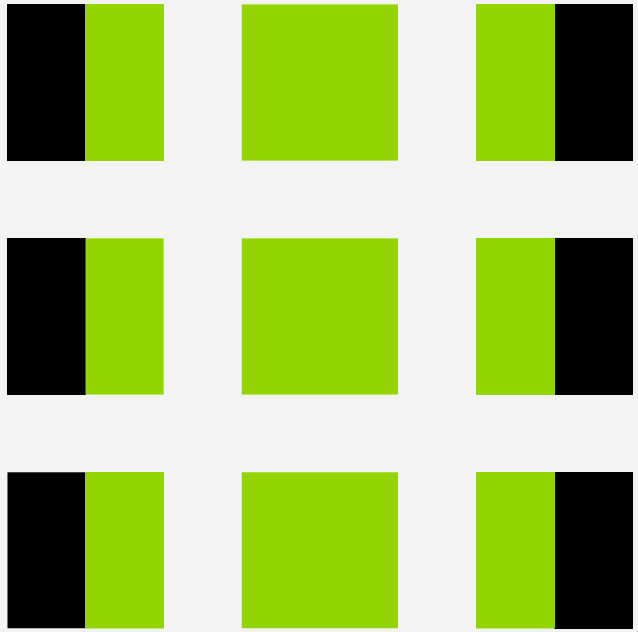
Thank You

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