



CY2023 SECOND QUARTER REPORT



ComEd has received the ENERGY STAR Partner of the Year Award for Sustained Excellence for the 11th consecutive year. ComEd customers have saved more than \$8.3 billion on energy bills and avoided close to 76 billion pounds of carbon through its energy efficiency programs.

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Portfolio Summary

628,082

Actual Net MWh YTD

1,587,677

2023 MWh Forecast

\$191,728,181

Actual Spend YTD

\$439,746,496

2023 Budget

PORTFOLIO

- Through Q2, the portfolio has achieved approximately 40% of its 2023 savings forecast.
- Since its inception in 2008, the ComEd Energy Efficiency Program has saved ComEd customers over \$8.3 billion on their electric bills.

RESIDENTIAL IMPLEMENTATION

- Through Q2, market rate residential programs have achieved 41% of their combined 2023 savings forecast of 244,373 MWh, not including converted therms.
- Through Q2, income eligible residential programs have achieved 48% of their combined 2023 savings forecast of 295,388 MWh, not including converted therms.
- Customers have received over 680,000 incentives through Q2.
- Over 13,000 homeowners & tenants – consisting of over 9,700 income eligible participants - have received direct install products from assessments through Q2.

C&I IMPLEMENTATION

- Through Q2, private sector programs have achieved 42% of their combined 2023 savings forecast of 530,990 MWh.
- Public sector programs have achieved 33% of their combined 2023 savings forecast of 109,190 MWh.
- Through Q2 over 3,900 private sector projects and over 400 public sector projects have been completed.

Residential Implementation Programs

Residential Direct to Consumer Program Highlights

- **Home Energy Savings (HES) - Home Energy Assessment (Market Rate and Income Eligible)** – In Q2, the offering prepared to launch four additional models of programmable and smart thermostats to expand system compatibility, consumer preference, and product availability. The offering anticipates that this strategy will boost the thermostat installation rate by 5-15 percentage points. The offering continues to gain momentum in the number of income eligible (IE) customers served. In total, 3,383 IE assessments were completed in Q2 2023 compared to 1,340 in Q2 2022.
- **Home Energy Savings (HES) - Income Eligible Retrofits** – HES Income Eligible Retrofits participation was higher than planned thru Q2. HES Retrofits conducted a training for the program's energy efficiency service providers (EESPs) on June 26 that was intended to maximize per home energy savings and ensure positive customer experiences. The meeting focused on best practices on a variety of topics, including identifying homes that can benefit from duct sealing and insulation and screening attics for risk factors that would preclude attic measures from being installed. The program also provided a refresher on safety incident reporting and emphasized key program priorities. Eight companies were represented with over 45 attendees.
- **Multi-Family Energy Savings (MFES) - (Market Rate, Income-Eligible, and Public Housing)** – In Q2, the MFES offering completed over 300 energy efficiency retrofit projects, direct installation of over 3,000 energy efficiency measures, and dispersed more than \$7.2M in incentives, with the largest portion (~\$6.2M) allocated towards income eligible and public housing projects. Over \$1M was utilized to address health and safety hazards that enabled energy efficiency work to proceed safely. The strategic initiative to convert electric resistance heating to heat pump systems continues to progress with 284 heat pumps installed in Q2 within income eligible and public housing buildings. The offering hosted a 'Selling Energy Efficiency' training, with six program EESP companies in attendance. During the EESP training, service providers discussed real-world barriers to 'selling' the MFES offering, and the instructor walked through best practices to overcome these barriers for success. The offering also hosted an EESP roundtable, focused on incentive levels and program specifications. The information gathered from this roundtable will be considered for 2024 planning activities. The MFES Program currently has 91 EESPs in the network, with 25% being certified as diverse business enterprises. Operational Efficiencies (OE) is a new offering within the MFES program that launched in Q1 to enable Income-Eligible and Public Housing property owners to identify and implement low-cost and no-cost savings opportunities, using a strategic energy management model. In Q2, the OE offering recruited the first cohort and initiated efforts (also known as treasure hunts) to help income-eligible property owners start identifying and implementing energy saving opportunities.
- **Whole Home Electrification (Single and Multi-Family Upgrades Electrification - IE)** – In Q2, the Whole Home Electrification offering celebrated a milestone of fully electrifying 56 income eligible single family homes throughout the service territory. All participants were modeled to have energy bill savings before proceeding with the project. Customers were served comprehensively with weatherization (if the home was not previously weatherized), electrical panel upgrades, a heat pump, a heat pump water heater, induction stoves, a standard high efficiency dryer or heat pump dryer and, if needed,

Residential Implementation Programs

health and safety upgrades in order for the energy efficiency electrification work to safely proceed. The milestone was detailed in a press release that can be accessed here: [56 Homes Now Fully Electric Through ComEd Low Income Whole Home Electrification Program | ComEd - An Exelon Company](#).

- **Home Energy Reports (HER)** – Q2 saw strong energy savings achievement, anticipating first year, year-end savings to be 18% higher than anticipated in Q1. ComEd began leveraging Home Energy Reports to identify customers that have an electric vehicle (EV), using usage data to identify customers that likely have an EV. In Q2, ComEd leverage these insights to launch a confirmation campaign to prompt Home Energy Report participants that were identified as likely having an EV to confirm if they charge an EV at home and if yes, what type of charger is used (level 1 versus level 2). The results of this campaign will ensure EV usage is considered and reflected appropriately in future reports for a more personalized and custom user experience.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Home Energy Savings – Market Rate Assessment	166	19%	4,059	Homes
Home Energy Savings – Income Eligible Assessment	2,523	45%	3,383	Homes
Home Energy Savings – Income Eligible Retrofits	2,601	55%	1583	Homes
Multi-Family Energy Savings – Income Eligible	11,470	69%	Tenant Unit Direct Installation: 4,815 Building Upgrades: 928	Projects
Multi-Family Energy Savings – Public Housing	256	54%	Tenant Unit Direct Installation: 0 Building Upgrades: 12	Projects
Multi-Family Energy Savings – Market Rate	4,071	82%	Tenant Unit Direct Installation: 1,087 Building Upgrades: 127	Projects
Whole-Home Electrification	431	7%	Single Family Homes: 61 Multi-Family Buildings: 0 Tenant Unit Conversions: 0	Projects
Home Energy Reports	30,782	50%	Home Energy Reports (print): 2,665,621 Home Energy Reports (email): 4,688,143 High Usage Alerts: 751,442 Weekly Usage Reports: 4,084,488	Reports and Alerts

Residential Implementation Programs

Residential Channels Program Highlights

- **Retail (Market Rate and Income Eligible)** – In Q2, the Retail program introduced lighting products into select charity store locations: Goodwill, Salvation Army, St. Vincent de Paul. For the Q2/Q3 summer season, the Retail program also added room air conditioners to the in-store instant coupons at The Home Depot and Lowe’s stores. Due to low savings potential, some high cost program measures were discontinued in Q2 including, bathroom exhaust fans, window film, and bathroom faucets. Instant coupons were expanded to income-eligible customers for select ENERGY STAR-certified products (clothes washers, electric clothes dryers, refrigerators, and smart thermostats) at local retailer Abt. Abt joins Home Depot and Lowe’s in offering instant coupons. A limited time offer (LTO) was launched in June for the Google Nest smart thermostat, with 4,586 units sold within two weeks. This LTO garnered a 27.9% site session conversion rate, which is over double the previous 13.8% average site session conversion rate. New innovative Point-of-Purchase (POP) displays, video blade signs, were placed in the air purifier sections of nearly 60 stores in Menards and Ace Hardware locations to promote program incentives. The video blade signs play a video when a customer walks by and includes information on how to submit a rebate for the purchase of an air purifier. For the first time in 2023, in June, four in-store customer engagement events were conducted at stores in income eligible zip codes, to help educate income eligible customers on energy efficient products and program incentives available at their local retailers.
- **Product Distribution (Market Rate and Income Eligible)**
 - **Food Bank Distribution** – The program has distributed more than 1,600,000 products YTD, including over 1,500,000 ENERGY STAR certified lighting products, 17,200 water-saving products, 14,338 advanced power strips, and 6,168 rolls of weatherstripping, through 4 major food bank partners (Greater Chicago Food Depository; Northern Illinois Food Bank; River Bend Food Bank; Illinois Partners In Hope) and 470 participating food pantries. In addition, the program hosted 19 in-person events during Q2 where outreach staff interacted directly with customers about ways to save energy; an additional 5 events were supported as grab-and-go due to space constraints. A food distribution event in April in the Rockford area, sponsored by the Rock River Valley Pantry, provided an opportunity to distribute energy saving products and informational material to over 300 seniors and other income eligible customers who attended.
 - **Income Eligible Kits** – The program has distributed more than 28,000 kits year-to-date. Over 23,500 of these kits were initiated from leads provided by Community and Economic Development Association of Cook County (CEDA), 1,095 through leads from CAP of Lake County, and 1,263 through leads from Tri-County Opportunities Council. There are currently 8 total participating Community Action Agencies (CAAs); these organizations continue to be a key provider of customer outreach, recruitment, and enrollment leads for kit distribution efforts.

Residential Implementation Programs

- **School Kits** – Through the end of Q2, activity within this channel exceeded 50% of the total goal of 60,282 kits for 2023. This activity includes kits received by more than 17,000 students who participated during the spring school term plus over 13,000 students whose classrooms will participate during the fall.
- **Residential New Construction (Affordable Housing and Electric Homes)** – Through the end of Q2, the Affordable Housing New Construction segment has completed 2 projects including a total of 129 housing units, of which 98 were designed for income eligible customers. To date the program has completed 3 projects, including one project in Waukegan for individuals with physical disabilities and at or below 80% of the area median income. The City of Chicago has also awarded the Low-Income Housing Tax Credit to seven project candidates within the program. The Electric Homes New Construction (EHNC) segment has completed 13 projects year-to-date and is expecting an additional 68 additional projects by year-end.
- **Heating and Cooling** – Year-to-date, the program has processed 3,447 incentives. These consist of 987 air source heat pumps, 656 mini split heat pumps, 393 smart thermostats, and 1,108 central air conditioners (CACs). The number of heat pumps incentivized through the program has outpaced CACs, which is attributable to the higher heat pump incentives. The program discontinued CAC incentives on June 30th, with the ability to submit incentive applications for 60 days following.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Retail – Market Rate	11,010	26%	Home Products: 43,519	Appliances
Retail – Income Eligible	47,802	39%	Home Products: 20,485 Lighting: 613,936	Appliances; Light Bulbs
Product Distribution – Market Rate	2,146	40%	11,337	School Kits
Product Distribution – Income Eligible	125,648	47%	1,617,537	Bulbs and weatherization measures
Residential New Construction – Affordable Housing	478	43%	3	Projects
Residential New Construction – All Electric	46	19%	13	Homes
Heating and Cooling - Midstream/ Rebates	4,470	73%	3,447	Units

C&I Implementation Programs

Business Program Highlights

- **Small Business (Private and Public)** – In Q2, the offering continued to complete projects generated from the very successful Q1 Early Bird campaign, finishing over 2,100 projects representing 80.8 Net GWh savings and over \$30M in incentives. The Small Business offering also paid out the highest volume of completed project incentives YTD in June. A robust project pipeline continues in distressed communities, now forecasted to save customers 62.9 Net GWh and provide \$21.5M incentives in 2023.
- **Standard (Private and Public)** – In June 2023, the Standard Offering provided the highest month of incentives in the first half of any of the last five years. Project pipeline from Q1/Q2 results in the offering are being on track to exceed the original goals for 2023. Marketing efforts are shifting to building 2024 pipeline and promoting long-life measures like chillers and injection molding machines.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Small Business - Private	110,148	62%	3,224	Projects
Small Business – Public	13,082	29%	269	Projects
Incentives – Standard - Private	52,896	30%	408	Projects
Incentives – Standard – Public	9,951	36%	117	Projects

C&I Implementation Programs

Technical Program Highlights

- **Custom** – Completed the first electrification project, and the customer has already submitted a screening form for Phase 2 of this project. The proposed HVAC system is a variable refrigerant flow (VRF) system, with heat recovery, that will serve the first two floors of the building.
- **Retro-Commissioning (RCx)** – Year to date, RCx has 44 active and completed projects in distressed communities, with over 2.6 GWh of savings already verified (comparing that to 3.9 GWh of savings from these communities for all of 2022). The public sector is performing ahead of plan for Q1/Q2. A marketing plan was implemented in Q2 that includes the Google Display campaign to increase social media presence.
- **Industrial Systems (IS)** – Developing an approach on how to incentivize electrification projects, such as heat recovery chillers, within the IS program. Held an in-person EESP Roundtable in May to review 2023 incentives and receive feedback. Created a Work-In-Progress payment option and updated M&V requirements. Held a demonstration session on leak detection equipment and software with very positive feedback from the EESPs that attended. Coordinated with Cook County BRITE program to join an assessment at a metal finishing facility with more assessments expected. Five treasure hunts at customer sites were completed with over 10 comprehensive study opportunities identified while connecting with EESPs to create applications for studies.
- **Strategic Energy Management (SEM)** – Fifteen treasure hunts were completed in Q2, comprising 43% of planned energy scans for alumni customers. Ten additional customers completed a building automation system deep dive, completed an annual plan, or received a refreshed opportunity register in Q2. The Q2 virtual roundtable was held on June 20th, with the topic “Electrification: More than just Energy Efficiency.” Three additional workshops were held for customers in Q2. A paid ad campaign began in February and continues throughout the year. This is the first of several new marketing campaigns that the SEM program is initiating to expand awareness of the ComEd SEM program. Eight student intern advisors joined the SEM program team and are actively supporting the implementation of the offering.
- **C&I New Construction (CINC)** – Year-to-date, 10 projects are enrolled in the High Performance Design incentive track for meeting a green rating system (e.g. LEED, WELL, Living Building Challenge, Green Globes, Passive House). CINC team performed a targeted outreach to small warehouses that included more than 120 customers. Results have been positive with over 17 leads to date.
- **Midstream/Upstream (Instant Discounts)** – Instant Discounts held 2 Fork Truck Webinars this quarter. The program disbursed its first Energy Efficiency Electrification (EEE) Fork Truck incentive payments in Q2, issuing \$165,000 in EEE Fork Truck incentives and capturing 239,787 in kWh savings. Lighting continues to perform well with stronger YTD savings than 2022.
- **Commercial Food Services (CFS)** – During Q2, the outreach team was able to re-enroll participants that were active in the pilot but have not yet participated this program year. The offering has identified the top measures that offer the largest savings and has shifted focus to a targeted strategy to increase volume in these measures, namely: steamers, underfired broilers, demand-controlled kitchen ventilation, dishwashers, and deck ovens.

C&I Implementation Programs

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Incentives – Custom – Private	3,448	27%	24	Projects
Incentives – Custom – Public	515	48%	6	Projects
Retro-commissioning – Private	6,113	19%	50	Projects
Retro-commissioning – Public	5,230	34%	25	Projects
Industrial Systems	9,614	21%	122	Projects
Strategic Energy Management – Private	1,046	3%	87	Participating Customers
Strategic Energy Management – Public	954	11%	25	Participating Customers
C&I New Construction – Private	1,854	24%	20	Projects
C&I New Construction – Public	221	15%	5	Projects
Midstream/Upstream – Private	41,656	78%	572,029	Lighting products; battery chargers; HVAC, Fork Trucks
Midstream/Upstream – Public	6,558	73%	146,222	Lighting products; battery chargers; HVAC, Fork Trucks
Commercial Food Services - Private	284	28%	153	Units
Commercial Food Services - Public	26	40%	6	Units

C&I Implementation Programs

Engineering Program Highlights

- **Facility Assessments/Operational Measures** – In Q2, 16 operational savings projects have been verified, for a total savings of 115 MWh. Additionally, 7.3 GWh were added to the pipeline in Q2, for a total pipeline of 12.2 GWh. Operational measures typically take a few months to be implemented after identification. Savings from these measures identified are anticipated in Q3–Q4 this year.

Program	Net MWh YTD	% Savings Achieved of LRP YE	Program Participation YTD	Unit Definition
Assessments – Private	86	4%	9	Verified Wins
Assessments – Public	123	14%	13	Verified Wins

Voltage Optimization

Voltage Optimization Highlights

- Savings below are equivalent to 11.8 million pounds of carbon dioxide reduction or removing 1,166 passenger vehicles driven each year.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Voltage Optimization	13,932	12%	2 stations; 32 feeders	Stations Activated; Feeders Activated

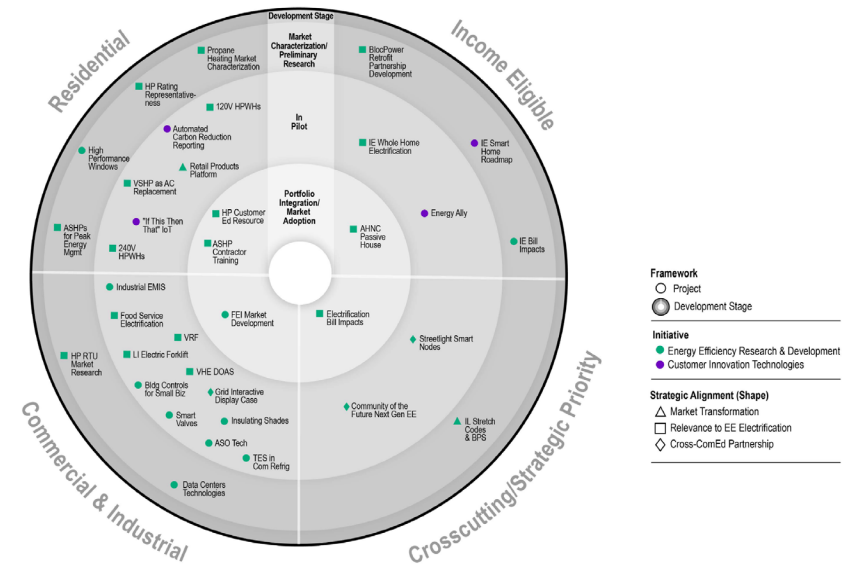
Emerging Technologies and Market Transformation (“R&D”)

R&D Highlights

The mission of the R&D team is to identify, test, validate, and integrate new energy-saving technologies and program delivery strategies into the ComEd Energy Efficiency Program so that it continues to meet customers’ needs and its energy savings goals cost-effectively. For the first time, this quarterly report also includes projects active with Customer Innovation Technologies, a parallel team within ComEd Customer Solutions focused on the non-EE range of demand side management innovation concepts, such as peak load reduction, distributed energy resources, and home energy management systems. The report is renamed “Customer Innovation” to reflect this broader team, but energy efficiency R&D projects are still identified throughout.

- Please refer to the *Customer Innovation* section in the Appendix for a summary of active Emerging Technologies and Market Transformation projects.

ComEd Customer Innovation Portfolio Summary 2023 Q2



This visualization provides an overview of the Customer Innovation Team’s selected research concepts and projects for 2023, organized by stage of research and relevant customer segments. Further information about each project may be found in the following table. Project descriptions are available on the ComEd Customer Innovation website at [Innovate.ComEd.com](https://innovate.comed.com).

Marketing Education & Awareness

Note: On page 15 of ComEd's CY2023 First Quarter Report, three campaigns were erroneously reported that were not associated with the ComEd Energy Efficiency Program: Community of the Future Campaign 2022, Clean Energy/EV Campaign 2023, and Reliability "Trigger" Campaign 2023.

Marketing Education & Awareness Q2 Highlights

Energy Efficiency Business Campaign 2023 (E&A Biz/Private/Public)

Overview: The campaign promotes awareness of energy efficiency offerings for business customers. Customers were driven to ComEd.com/PoweringBiz.

- In-market: 2/6/23 - 7/3/23
- 2023 Q2 paid media consisted of:
 - TV :30s,
 - Radio :30s and in-game units on Chicago Blackhawks & Chicago Bulls broadcasts and during Chicago White Sox & ESPN radio broadcasts
 - CHGO sports programming sponsorship
 - Facebook and LinkedIn - paid socials (display units)
 - Nexxen digital display
 - Digital bulletins (OOH)
- The campaign generated 4,189,738 total digital impressions as of June 30, 2023
 - Facebook paid social = 38,167 impressions
 - MobileFuse digital display = 4,151,571 impressions

E&A Residential 2023

Overview: This campaign drives customer (market rate & LMI) education and awareness of residential offerings of the ComEd Energy Efficiency Program.

Customers were driven to ComEd.com/HomeSavings.

- In-market: 4/24/23-12/30/23
- 2023 Q2 paid media consisted of:
 - TV & cable :30s (English and Spanish)
 - Radio :30s (English & Spanish)
 - Basis digital display
 - Facebook paid social (English and Spanish, Chicago & Rockford)
 - Convenience Store units in Rockford & Chicago (OOH)
- The campaign generated 3,369,157 total digital impressions as of June 30, 2023

EE Retail 2023

Overview: This campaign drives customer (market rate & LMI) awareness of energy efficiency rebates and discounts on ENERGY STAR certified appliances and home products being offered by the ComEd Energy Efficiency Program. Customers were driven to ComEd.com/HomeSavings.

- In-market: 4/3/23 -12/30/23
- Q2 paid media consisted of:
 - Facebook paid social (display and carousel units)
 - Nexxen digital display
 - Expressway digital billboards (OOH)

Marketing Education & Awareness

- TV & cable :30s (English & Spanish)
- Radio :30s (English & Spanish, Chicago & Rockford)
- The campaign generated 1,432,408 total digital impressions (Facebook)

IE Single Family 2023

Overview: This campaign drives customer (primarily LMI customers) awareness and encourages participation in the FREE energy assessment being offered by the ComEd Energy Efficiency Program. Customers were driven to ComEd.com/Assessment.

- In-market: 5/1/23 - 10/29/23
- Q2 paid media consisted of:
 - Print
 - CTA + PACE bus shelter units (OOH)
 - Basis digital display
- The campaign generated 2,432,097 total digital impressions as of June 30, 2023 (Basis digital display)

5/13 Resource Fair 2023

Overview: The advertising flight intended to drive attendance to the 5/13 Resource Fair at the Embassy Suites in Rockford. Customers were driven to ComEd.com/ResourceFair

- In-market: 5/8/23-5/13/23
- Q2 paid media consisted of:
 - Print (Rockford)
 - Radio pre-recorded DJ reads (English and Spanish)
 - Facebook paid social (display, English and Spanish)
- The campaign generated a total of 203,454 digital impressions as of May 13, 2023 (Facebook paid social)
 - English – 109,215 impressions; Spanish – 94,239 impressions

Switch on Summer

Overview: The advertising flight intended to drive attendance to the 5/13 Switch on Summer event at Buckingham Fountain. Customers were driven to ComEd.com/switchonsummer

- In Market: 4/17-5/13
- Q2 paid media consisted of:
 - Radio
 - OOH
 - Chicago Parent Magazine (print & digital assets)
 - Animated display banners
 - Facebook paid social (display and video, English)
- The campaign generated a total of 5,868,181 digital impressions as of May 13, 2023 (Facebook and animated display banners. Does not include Chicago Parent Magazine digital)
 - Facebook = 1,042,289
 - Display = 4,825,892

Stipulations

Plan 6 Stipulations

As part of the Revised 2022-2025 Energy Efficiency & Demand Response Plan 6 Stipulation Agreement (“RSA”), and in compliance with the Clean Energy Jobs Act (“CEJA”), ComEd has agreed to report out on the following stipulations:

RSA § IV (A-6a) ComEd commits to work with stakeholders to develop progress metrics for ICC-filed Quarterly Reports in the second quarter of 2022 and present progress on energy efficiency and financial assistance efforts described above at a joint Committee and SAG meeting.

Metric 1 Number and percentage of customers receiving utility bill assistance that were referred to EE measures/programs, broken down by:

- Number of customers, in total, referred to EE programs, broken down by program and SF/MF designation
- Number of customers referred to EE programs, broken down by program and SF/MF designation for the population of bill assistance customers as a whole
- Number of customers referred to EE programs, broken down by program and SF/MF designation for the top 20 zip codes (and/or census tracts) with the highest disconnection rate

Metric 2 The number and percentage of IQ EE applicants/participants that were referred to energy assistance programs or other financial assistance support (including, the Low Income Home Energy Assistance Program (LIHEAP), the Percentage of Income Payment Plan Program (PIPP), any utility-sponsored assistance program, and the ability to wave customer deposits & late fees, per CEJA provisions) broken down by:

- SF and MF, total and tracked separately
- By zip code and/or census tract

Metric 3 Details on which programs and measures were recommended including:

- The implementer they were recommended by
- Type of referral/recommendation (e-mail, flyer, direct assistance/hand-holding)

Metric 6 Narrative updates on current efforts and future planned efforts to coordinate utility bill assistance and credit and collections with energy efficiency programs

Metric 8 Description of how the company intends to increase outreach in top 20 communities with disconnections (i.e., presentations, materials

distributed, which community organizations, information on how to apply, streamlined application process, etc.)

Q2 Updates

- **Metric 1:** During Q2 of 2023, over 102K customers receiving utility bill assistance also received information about Energy Efficiency programs.
 - Local Administering Agencies, by process, offer Energy Efficiency kits to LIHEAP and PIPP recipients and review the weatherization program with them.
 - There were 66k LIHEAP customers and 20k PIPP customers in Q2
 - Supplemental Arrearage Reduction Program (SARP) customers receive Energy Efficiency information from ComEd packaged as Ways to Save
 - There were 20k SARP customers in Q2

ComEd’s customer-facing digital tool, the Smart Assistance Manager (or SAM), serves as a way for customers seeking assistance to receive tailored recommendations for ways to assist with managing their electric bills. During Q2, customers who leveraged the ‘assistance finder’ functionality within SAM received referrals to/information about the following programs:

Program	Sessions*
Budget Billing	490
Due Date Extensions	277
Free Energy Savings Products	897
Give A Ray	813
Home Energy Savings	874
LIHEAP	1,073
Multi Family Energy Savings	287
Payment Arrangements	1,113
Peak Time Savings	854
Retail Discounts	707
SARP	1,713

*Sessions include authenticated and unauthenticated users, and can include duplicate visits from the same customer/user.

Stipulations

The following list represents a breakdown of customers referred to EE programs broken down by program for the top 20 zip codes with the highest disconnection rates (zip codes 60944, 60958, and 61057 did not have any customer participation):

Zip Code / Program	Number of Customers				
60409	59	60621	55	60637 (cont.)	
Budget Billing	1	Budget Billing	5	Free Energy Savings Products	9
Due Date Extensions	1	Due Date Extensions	5	Give A Ray	8
Free Energy Savings Products	9	Free Energy Savings Products	5	LIHEAP	12
Give A Ray	6	Give A Ray	5	Multi Family Energy Savings	11
Home Energy Savings	6	Home Energy Savings	5	Payment Arrangements	4
LIHEAP	7	LIHEAP	8	Retail Discounts	6
Multi Family Energy Savings	1	Multi Family Energy Savings	1	SARP	25
Payment Arrangements	7	Payment Arrangements	4	60644	59
Retail Discounts	4	Retail Discounts	4	Budget Billing	2
SARP	17	SARP	17	Free Energy Savings Products	7
60419	45	60623	111	Give A Ray	7
Budget Billing	1	Budget Billing	4	Home Energy Savings	7
Due Date Extensions	2	Due Date Extensions	2	LIHEAP	10
Free Energy Savings Products	6	Free Energy Savings Products	16	Multi Family Energy Savings	1
Give A Ray	6	Give A Ray	18	Payment Arrangements	3
Home Energy Savings	6	Home Energy Savings	9	Retail Discounts	5
LIHEAP	4	LIHEAP	13	SARP	17
Multi Family Energy Savings	1	Multi Family Energy Savings	7	60649	77
Payment Arrangements	1	Payment Arrangements	5	Budget Billing	4
Retail Discounts	5	Retail Discounts	10	Due Date Extensions	2
SARP	13	SARP	27	Free Energy Savings Products	9
60426	47	60624	50	Give A Ray	7
Budget Billing	2	Budget Billing	1	Home Energy Savings	7
Free Energy Savings Products	5	Due Date Extensions	1	LIHEAP	5
Give A Ray	5	Free Energy Savings Products	6	Multi Family Energy Savings	7
Home Energy Savings	4	Give A Ray	5	Payment Arrangements	4
LIHEAP	5	Home Energy Savings	3	Retail Discounts	10
Multi Family Energy Savings	3	LIHEAP	5	SARP	22
Payment Arrangements	4	Multi Family Energy Savings	6	60827	31
Retail Discounts	5	Payment Arrangements	4	Due Date Extensions	2
SARP	14	Retail Discounts	5	Free Energy Savings Products	4
60472	2	SARP	14	Give A Ray	3
Payment Arrangements	1	60628	128	Home Energy Savings	5
SARP	1	Budget Billing	2	LIHEAP	3
60619	97	Due Date Extensions	1	Multi Family Energy Savings	1
Due Date Extensions	3	Free Energy Savings Products	18	Payment Arrangements	3
Free Energy Savings Products	11	Give A Ray	18	Retail Discounts	4
Give A Ray	10	Home Energy Savings	19	SARP	6
Home Energy Savings	16	LIHEAP	13		
LIHEAP	9	Multi Family Energy Savings	4		
Multi Family Energy Savings	3	Payment Arrangements	6		
Payment Arrangements	7	Retail Discounts	18		
Retail Discounts	10	SARP	29		
SARP	28	60636	39		
60620	131	Due Date Extensions	1		
Budget Billing	7	Free Energy Savings Products	5		
Due Date Extensions	4	Give A Ray	4		
Free Energy Savings Products	17	Home Energy Savings	5		
Give A Ray	14	LIHEAP	5		
Home Energy Savings	8	Payment Arrangements	1		
LIHEAP	13	Retail Discounts	4		
Multi Family Energy Savings	8	SARP	14		
Payment Arrangements	9	60637	79		
Retail Discounts	14	Budget Billing	2		
SARP	37	Due Date Extensions	2		

- *Metric 2:* In Q2, all (100%) recipients of the Home Energy Savings' Income Eligible Home Energy Assessment (IE HEA) and Income Eligible Retrofits, as well as Product Distribution's Income Eligible Kits program offerings received referrals to the financial assistance programs. In addition to the referrals shown in the tables (*Table 1, Table 2, & Table 3*), customers who received an energy savings kits from a participating school or attended program sponsored food pantry event through the Product Distribution program received additional information to further help them manage their energy bills, including ComEd's financial assistance programs. These program offerings do not track customer level participation information to allow for zip code level reporting.

Stipulations

Table 1

Product Distribution Income Eligible Kits Participation Counts Q2 2023											
Service Zip Code	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts
60002	48	60112	2	60429	122	60526	4	60646	26	61101	7
60004	31	60115	8	60430	44	60527	2	60647	91	61102	5
60005	22	60118	1	60431	5	60530	1	60649	382	61103	13
60007	19	60120	17	60432	13	60531	3	60651	230	61104	10
60008	8	60123	5	60433	12	60532	2	60652	94	61107	6
60010	16	60126	1	60435	20	60534	14	60653	244	61108	5
60012	1	60130	28	60436	6	60538	3	60654	5	61111	1
60014	4	60131	11	60438	90	60544	10	60655	15	61114	2
60015	19	60133	33	60439	16	60546	8	60656	20	61115	5
60016	50	60140	1	60440	9	60548	13	60657	16	61230	1
60018	19	60145	2	60441	7	60552	1	60659	75	61250	10
60020	40	60146	1	60442	1	60553	2	60660	47	61251	1
60021	1	60148	1	60443	90	60555	2	60661	1	61252	21
60025	14	60150	1	60445	37	60556	1	60706	50	61261	8
60026	2	60153	57	60446	5	60558	1	60707	60	61270	28
60030	67	60154	18	60448	1	60559	4	60712	9	61277	11
60031	112	60155	19	60450	1	60563	1	60714	30	61283	9
60034	1	60156	3	60451	1	60565	1	60803	91	61310	21
60035	36	60160	23	60452	53	60585	2	60804	175	61318	2
60040	5	60162	12	60453	125	60586	4	60805	40	61324	1
60041	40	60163	2	60455	32	60601	6	60827	164	61325	1
60042	15	60164	12	60456	15	60604	1	60901	8	61334	2
60044	9	60165	2	60457	24	60605	18	60914	2	61341	2
60045	6	60169	53	60458	26	60606	1	60915	2	61342	55
60046	54	60171	13	60459	28	60607	41	60954	1	61353	1
60047	26	60172	7	60461	13	60608	216	61001	1	61356	1
60048	9	60173	21	60462	58	60609	349	61006	8	61358	4
60050	3	60176	10	60463	11	60610	42	61007	1	61360	13
60051	13	60178	2	60464	12	60611	10	61008	2	61364	151
60053	15	60181	7	60465	56	60612	237	61010	26	61367	1
60056	54	60185	2	60466	118	60613	37	61013	1	61369	8
60060	57	60188	2	60467	22	60614	22	61015	5	61370	9
60061	33	60192	2	60469	22	60615	166	61020	14	61375	1
60062	9	60193	49	60470	4	60616	109	61021	168	61376	7
60064	96	60194	19	60471	91	60617	263	61030	13	61377	6
60067	10	60195	7	60472	43	60618	65	61031	9	61378	1
60068	5	60201	37	60473	58	60619	427	61032	153	61760	1
60069	4	60202	42	60474	1	60620	371	61039	3	61764	1
60070	26	60203	1	60475	14	60621	215	61043	1		
60073	191	60301	3	60476	6	60622	40	61046	22		
60074	16	60302	55	60477	61	60623	571	61047	8		
60076	35	60304	22	60478	88	60624	316	61048	6		
60077	46	60305	6	60480	2	60625	71	61049	3		
60081	8	60402	107	60481	5	60626	95	61051	5		
60083	6	60403	4	60482	47	60628	271	61052	1		
60084	27	60404	2	60484	14	60629	236	61054	40		
60085	321	60406	120	60487	30	60630	53	61060	2		
60087	90	60408	3	60490	2	60631	10	61061	67		
60089	48	60409	162	60501	17	60632	311	61062	2		
60090	98	60410	1	60502	2	60633	41	61063	1		
60091	8	60411	318	60503	1	60634	95	61064	39		
60093	3	60415	42	60504	4	60636	175	61065	3		
60096	20	60416	1	60505	4	60637	352	61068	2		
60097	2	60417	3	60506	3	60638	92	61071	13		
60098	5	60418	25	60513	12	60639	181	61075	3		
60099	235	60419	118	60515	1	60640	81	61078	11		
60101	2	60422	15	60516	1	60641	63	61081	128		
60103	7	60423	1	60517	2	60642	18	61084	10		
60104	45	60425	26	60518	18	60643	161	61085	7		
60106	1	60426	123	60521	1	60644	331	61087	2		
60107	23	60428	114	60525	18	60645	90	61089	2		

Table 2

Income Eligible - Home Energy Assessments Participation Counts Q2 2023											
Service Zip Code	Customer Counts	Service Zip Code	Customer Counts	Service Zip Code	Customer Counts	Service Zip Code	Customer Counts	Service Zip Code	Customer Counts	Service Zip Code	Customer Counts
60002	23	60106	9	60403	16	60476	7	60620	293	61032	12
60004	5	60107	16	60404	8	60477	23	60621	47	61047	6
60005	18	60108	11	60406	54	60478	36	60622	6	61053	5
60007	21	60110	7	60407	4	60480	1	60623	34	61054	3
60010	22	60115	32	60408	4	60481	19	60624	19	61063	5
60014	30	60118	14	60409	94	60482	3	60625	12	61070	3
60015	50	60119	5	60411	148	60484	20	60626	48	61081	4
60016	38	60120	32	60415	5	60487	5	60628	249	61085	5
60018	35	60123	17	60416	6	60490	22	60629	74	61087	4
60020	5	60126	6	60417	18	60491	10	60630	41	61101	33
60021	3	60130	4	60418	28	60501	7	60631	16	61102	39
60022	8	60131	3	60419	60	60502	9	60632	80	61103	43
60025	31	60133	13	60422	11	60503	6	60633	46	61104	24
60030	26	60135	6	60423	14	60504	8	60634	27	61107	29
60031	29	60137	5	60425	30	60505	40	60636	112	61108	44
60033	9	60139	15	60426	81	60506	36	60637	52	61109	42
60034	6	60140	15	60428	13	60513	7	60638	53	61111	4
60035	14	60142	24	60429	108	60514	9	60639	43	61114	9
60041	13	60143	7	60430	3	60515	6	60640	16	61115	4
60042	3	60148	12	60431	34	60517	10	60641	32	61250	3
60044	10	60152	7	60432	24	60521	16	60642	23	61342	10
60045	16	60153	24	60433	9	60523	2	60643	138	61360	10
60046	33	60154	12	60435	24	60525	10	60644	50	61364	14
60047	16	60155	4	60436	3	60526	7	60645	28	61369	7
60048	18	60156	23	60438	75	60531	8	60647	15	61377	4
60050	17	60157	7	60439	10	60534	5	60649	150	61764	14
60051	6	60160	25	60440	35	60538	18	60651	80		
60053	26	60162	16	60441	31	60543	1	60652	78		
60056	25	60163	6	60442	10	60544	29	60653	55		
60060	19	60164	11	60443	34	60545	13	60655	23		
60061	30	60165	4	60445	10	60546	10	60657	10		
60062	13	60169	9	60446	22	60548	1	60659	45		
60064	15	60171	6	60447	7	60550	2	60660	19		
60068	22	60172	8	60448	21	60554	6	60706	3		
60069	6	60175	5	60450	11	60555	5	60707	25		
60070	5	60176	18	60451	8	60558	19	60712	12		
60073	56	60177	13	60452	18	60559	17	60714	35		
60076	43	60178	14	60453	22	60560	21	60803	6		
60077	10	60180	6	60455	30	60561	22	60804	19		
60081	2	60181	25	60456	21	60585	13	60805	13		
60083	18	60185	8	60457	4	60586	6	60827	55		
60085	80	60187	5	60458	11	60605	5	60901	22		
60087	13	60188	7	60459	30	60606	4	60914	2		
60089	11	60189	22	60461	25	60607	7	60950	8		
60090	16	60190	10	60462	32	60608	31	60958	3		
60091	11	60191	8	60464	8	60609	36	60964	6		
60093	28	60192	1	60465	13	60610	1	61008	8		
60096	7	60193	15	60466	46	60612	49	61010	7		
60097	4	60194	18	60467	10	60613	3	61011	8		
60098	30	60202	13	60468	2	60614	15	61012	6		
60099	56	60302	15	60469	6	60615	32	61016	3		
60101	6	60304	5	60471	28	60616	18	61019	3		
60102	5	60305	2	60472	36	60617	263	61021	2		
60103	45	60401	11	60473	69	60618	13	61024	2		
60104	53	60402	24	60475	28	60619	257	61031	9		

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Table 3

Income Eligible Single-Family Retrofits Q2 2023			
Service Zip Code	Customer Counts	Service Zip Code	Customer Counts
60014	10	60505	13
60020	12	60506	18
60031	5	60538	6
60073	7	60544	7
60085	13	60559	11
60098	12	60585	7
60099	24	60608	14
60103	12	60609	17
60104	10	60617	176
60131	9	60619	123
60142	10	60620	271
60153	38	60621	49
60163	7	60623	23
60171	3	60624	26
60402	17	60625	15
60403	17	60628	195
60406	78	60629	66
60409	105	60632	43
60411	118	60633	7
60417	34	60634	41
60419	153	60636	81
60422	12	60637	8
60423	2	60638	51
60426	215	60639	87
60428	97	60641	54
60429	71	60643	236
60430	45	60644	10
60433	77	60645	9
60435	5	60647	18
60438	86	60649	29
60443	18	60651	45
60445	7	60652	40
60446	11	60653	9
60449	15	60655	73
60452	56	60659	7
60453	146	60803	11
60456	16	60804	56
60457	15	60805	19
60466	90	60827	20
60471	23	60914	12
60472	95	61054	12
60473	100	61101	14
60475	17		
60476	10		
60477	21		
60478	47		
60484	30		
60487	9		
60490	5		
60504	10		

- **Metric 3:**
 - Home Energy Savings – Resource Innovation is the program implementer
 - Income Eligible Assessment: Franklin Energy, a subcontractor to Resource Innovation performs the Home Energy Assessments and provides customers with information on ComEd’s financial assistance programs in the assessment report customer receive at the conclusion of the assessment appointment.
 - Income Eligible Retrofits: Customers receive a brochure from a program EESP after their retrofit describing additional programs, including financial assistance, to further help them manage their energy bills.
 - Product Distribution – Walker Miller is the program implementer
 - Income Eligible (IE) and School Kits: Green Home Experts, a program subcontractor, ships IE kits directly to eligible customer’s homes who request a kit or to participating schools to distribute to students. Included in the kit is a brochure describing additional programs, including financial assistance, to help customers manage their energy bills.
 - Food Bank: Program representatives distribute brochures during program sponsored food pantry events to customers. The brochure describes additional programs, including financial assistance, to help customers manage their energy bills.
- **Metric 6:** All residential brochures distributed by ComEd residential energy efficiency programs and through sponsored events, include financial assistance information. Additionally, and as described in the “*Mapping of Assistance Needs...*” section, energy efficiency, financial assistance and revenue management departments coordinated on a marketing campaign (Targeted Hardship Campaign) targeting income eligible customers experiencing payment issues, like arrearages and financial assistance, to drive awareness of and participation in energy efficiency programs. This campaign leveraged email and social media tactics to reach targeted customers. The campaign originally launched in 2022, relaunched in March 2023 and will continue for throughout 2023. Lastly, and as described in the “*Pilot Connecting Customers with Payment Trouble...*” section, energy efficiency coordinated with

Stipulations

financial assistance launched a new program, Catch Up & Save, in January 2023 which brings together the benefits of energy efficiency with an energy savings kits and a payment plan offered through the Supplemental Arrearage Reduction Program (SARP) historically limited to LIHEAP recipients through a single enrollment process. To date, 605 income eligible customers have been enrolled in SARP and also received an energy savings kit, with 463 of those occurring in Q2.

- o **Metric 8:** Energy efficiency has been expanding its marketing campaigns and strategies to better target income eligible customers, particularly those living in communities whose residents are predominately income eligible. Typically, most if not all, communities experiencing high disconnections are also those communities whose residents are predominately low income. So, energy efficiency’s marketing campaigns and tactics that target predominately low income zip codes are also reaching those top 20 communities with disconnections and are now better targeted and informed of energy efficiencies programs and services to help them reduce energy usage and energy bills. The Targeted Hardship campaign described above and in the “*Pilot Connecting Customers with Payment Trouble...*” section and the resource fairs and community events detailed in the Marketing Education & Awareness section are good examples of efforts focusing on reaching customers experiencing payment troubles including those living in these top 20 communities with disconnections to inform them of energy efficiency offerings.

RSA § IV (A-6b) Mapping of Assistance Needs and Targeting Delivery of Weatherization Services: During the Plan 6 Period, ComEd will collect a variety of data for purposes of mapping areas of financial assistance needs and targeting energy efficiency and weatherization efforts. Data will be reported quarterly in the ICC-filed Quarterly Report and updates on targeting efforts will be provided in the ICC-filed Quarterly Report, and at least annually at joint SAG and Committee meetings, with commitment to seek input from interested stakeholders.

Q2 Updates

- o Originally launched in mid-2022, the Targeting Hardship Customers campaign promotes energy efficiency programs and services to help income eligible customers with payment troubles manage and reduce their energy bills. The 2023 Targeting Hardship Customers campaign relaunched in March with targeted emails and social media messaging. For 2023, the campaign execution has expanded from a quarterly

refresh to bi-monthly to promote energy efficiency and financial assistance programs and services. For social media, the campaign will continue to utilize paid posts through Facebook but have transitioned from Twitter to Instagram concurrently in English and Spanish. The following table (*Table 4*) includes the list of historical top 20 zip codes to receive disconnect notices and services and the year-to-date participation in the various income eligible EE programs.

Table 4

Top 20 Disconnect Zip Codes	City Name	Single-Family Income Eligible Retrofits		Multi-Family Income Eligible and Public		Other Income Eligible EE Programs*		TOTALS	
		MWh YTD	Participants YTD	MWh YTD	Participants YTD	MWh YTD	Participants YTD	Income Eligible Energy Savings (MWh YTD)	Income Eligible Participants (YTD)
60409	Calumet City	252	2	0	0	2,157	17,644	2,408	17,646
60419	Dolton	2,080	6	4	22	1,263	9,785	3,348	9,813
60426	Harvey	2,818	7	0	0	2,648	23,639	5,465	23,646
60428	Markham	2,557	4	0	0	182	893	2,739	897
60472	Robbins	0	0	0	0	133	983	133	983
60484	University Park	0	0	0	0	141	1,634	141	1,634
60619	Chicago	915	12	138	554	8,754	75,269	9,807	75,835
60620	Chicago	5,594	11	152	634	4,577	35,484	10,323	36,129
60621	Chicago	61	2	86	239	3,021	27,265	3,168	27,506
60623	Chicago	0	0	6	71	6,808	60,095	6,813	60,166
60624	Chicago	0	0	3	46	5,414	47,612	5,417	47,658
60628	Chicago	3,975	9	29	116	8,729	76,900	12,732	77,025
60636	Chicago	1,866	5	13	8	4,215	38,143	6,095	38,156
60637	Chicago	576	2	37	192	3,416	28,377	4,030	28,571
60644	Chicago	307	4	91	276	2,204	17,820	2,603	18,099
60649	Chicago	0	1	223	1,054	1,617	11,387	1,840	12,441
60827	Riverdale	245	3	6	175	2,189	18,539	2,440	18,717
60944	Hopkins Park	0	0	0	0	0	0	0	0
60958	Pembroke Township	0	0	0	0	664	6,001	664	6,001
61057	Nachusa	0	0	0	0	0	0	0	0

*Includes Product Distribution (IE Kits, Food Bank Distribution, and IE School Kits), Income Eligible Retail, and Home Energy Assessments.

RSA § IV (A-6d) Pilot Connecting Customers with Payment Trouble to Energy Efficiency: ComEd Energy Efficiency will work directly with relevant ComEd business units to create a pilot or program that recruits customers who are payment troubled (e.g., customers at risk of being disconnected; with high arrears) into its IE energy efficiency programs, with commitment to incorporate ideas and input from interested stakeholders on pilot design and modifications, as practicable. ComEd will direct its independent evaluator to perform an impact and a process evaluation of the pilot. ComEd will provide updates to the SAG and Committee in joint meetings on pilot progress and the evaluation results, and include updates in ICC filed Quarterly Reports, as appropriate.

Q2 Updates

Stipulations

- To date, 605 income eligible customers have been enrolled in SARP and also received an energy savings kit, with 463 of those occurring in Q2 through the Catch Up and Save program. Catch Up & Save, in coordination with ComEd Energy Efficiency (EE) and Financial Assistance (FA), is designed to provide additional assistance to customers experiencing payment trouble. This offering provides eligible customers the benefits of energy efficiency with an energy savings kits and a payment plan offered through the Supplemental Arrearage Reduction Program (SARP) historically limited to LIHEAP recipients through a single enrollment process. Included in each kit is a product and installation guide to assist customers with installing the items to begin saving energy and reducing energy costs.

RSA § IV (A-7a,7b) ComEd will track bill impacts and reduced energy burden based on deemed savings across all IE customers, for each IE offering. ComEd will also pilot ways to track actual bill impacts and reduced energy burden for a portion of IE Single-Family and Multi-Family customers, which will be for the purpose of facilitating follow up with customers to determine if actual savings were in line with projections. This pilot initiative and its associated data are for research and development purposes, and parties acknowledge that the pilot results are not intended or designed to inform changes to the IL-TRM. However, to the extent the pilot results are relevant and applicable, nothing in this Revised Stipulation would preclude consideration of the results in shaping future evaluation activities. ComEd will provide updates on this pilot in its ICC-filed Quarterly Reports, including, but not limited to, an overall comparison of deemed savings projections with actual bill impacts broken out between Single Family and Multi-Family. ComEd will work with interested stakeholders at the SAG to define energy burden and discuss ideas for piloting the tracking of EE bill impacts and related reduced energy burden. The funds spent on the pilot(s) will be considered IE R&D funds.

Q2 Updates

In Q2 2023, the study team completed the IE bill impacts analysis scope of work and a final report. The study team was led by Resource Innovations, which was selected via RFP by ComEd, Nicor Gas, Peoples Gas and North Shore Gas. The study used customer billing data from all sponsoring utilities to estimate achieved energy and bill savings impacts across five different income eligible customer programs. ComEd sees this study as the first part of a multi-step process toward a pilot on this topic and is now working internally to develop an analytical approach that will make it possible to

categorize IE weatherization program participants by post-retrofit bill impacts using customer AMI electric usage data.

RSA § IV (A-8e) Income Eligible (“IE”) - Low Income Energy Efficiency Accountability Committee (“LIEEAC” or “Committee”) Facilitator Independence, Budget, and Process e) ComEd acknowledges that Section 8-103B imposes certain quarterly reporting obligations on ComEd relative to the operation of the Committee. ComEd agrees to include in the narrative section of each such quarterly report updates on all of the reporting requirements set forth in Section 8-103B(c) of the PUA, and including new approaches or changes to program approaches adopted by ComEd pursuant to the recommendations of the LIEEAC. ComEd also agrees to attach the LIEEAC’s quarterly budget report to ComEd’s quarterly report filed with the Commission.

Q2 Updates

- In Q2, the Low Income EE Accountability Committee (LIEEAC) held ONE (1) joint IQ/SAG EE Committee meeting on June 26th and no LIEEAC North full committee meetings. ComEd has not received input or recommendations from the committee regarding the design, implementation or evaluation of our income eligible energy efficiency programs. See *Appendix* for the LIEEAC budget report. Please note that the IQ-N Leadership Team terminated the FutEE contract in April of 2023; subsequent entries represent closeout items FutEE completed in May 2023 prior to their departure.

Stipulations

RSA § V (D-1b) ComEd commits to providing the following IE Multi-Family reporting metrics in its ICC-filed Quarterly Reports:

- Actuals (YTD)
 - 1) Participation – buildings by zip code and apartment units
 - 2) Spending – incentives, non-incentives, total
 - 3) Savings (1st year) – MWh, therms

Q2 Updates

- **Participation – buildings by zip code and apartment units**
 In Q2, the Multi-Family Energy Savings program served verified income eligible (IE) and public housing (PH) multi-family properties in 161 unique zip codes throughout ComEd's service territory. In total, 578 IE and PH buildings participated with 19,610 tenant units receiving free products such as smart thermostats, LEDs, low flow showerheads and faucet aerators. Following table (*Table 5*) shows the breakout of the number of buildings and tenant units served, by program component (income eligible, public housing) and by zip code.
 - **# of Building Participants (Income-Eligible & Public Housing):** Assuming each building under an account is participating, including both direct install and rebate projects with a date install in Q2 of 2023.
 - **# of Apartment Units:** Each project with a recorded project type of "Direct Install" represents a unit served.

Table 5

Zip Code	# of Building Participants (Income-Eligible)	# of Apartment Units Served (Income-Eligible)	# of Building Participants (Public Housing)	# of Apartment Units Served (Public Housing)
60005	0	0	0	0
60008	20	948	0	0
60010	1	16	0	0
60016	3	504	0	0
60025	0	0	0	0
60030	1	148	0	0
60031	0	0	0	0
60050	0	0	0	0
60056	11	300	0	0
60064	3	43	0	0
60067	0	0	0	0
60073	1	6	0	0
60074	4	129	0	0
60076	2	13	0	0
60077	0	0	1	127
60085	10	97	0	0
60087	1	1	0	0
60088	1	819	0	0
60090	0	0	0	0
60096	0	0	0	0
60099	1	4	0	0
60101	4	50	0	0
60104	0	0	0	0
60106	0	0	0	0
60110	0	0	0	0
60115	0	0	7	241
60120	1	20	0	0
60123	5	420	0	0
60126	0	0	0	0
60130	2	72	0	0
60131	1	10	1	126
60133	0	0	0	0
60148	0	0	0	0
60153	3	14	0	0
60155	0	0	0	0
60160	0	0	0	0
60165	1	3	0	0
60169	11	550	0	0
60171	1	6	0	0
60173	0	0	0	0
60176	1	12	0	0
60178	0	0	1	74
60181	0	0	0	0
60185	1	20	0	0
60187	0	0	0	0
60188	1	1	0	0
60201	0	0	0	0
60202	1	48	0	0
60301	1	51	0	0

Stipulations

Table 5, continued

60302	11	415	0	0
60304	4	138	0	0
60305	1	31	0	0
60402	4	154	0	0
60403	1	3	0	0
60406	4	24	0	0
60409	0	0	0	0
60411	1	20	0	0
60415	0	0	0	0
60419	2	10	0	0
60424	0	0	0	0
60432	1	90	0	0
60433	1	146	0	0
60435	2	43	0	0
60438	2	26	0	0
60441	1	20	0	0
60442	2	10	0	0
60450	1	105	0	0
60453	0	0	0	0
60458	0	0	0	0
60459	1	3	0	0
60460	0	0	0	0
60468	1	4	0	0
60471	0	0	0	0
60475	0	0	0	0
60480	0	0	0	0
60501	0	0	0	0
60505	2	105	0	0
60506	16	288	0	0
60515	1	16	0	0
60517	0	0	0	0
60526	1	264	0	0
60527	0	0	0	0
60532	1	20	0	0
60534	2	132	0	0
60542	0	0	0	0
60544	1	20	0	0
60545	1	6	0	0
60555	1	30	0	0
60559	1	558	0	0
60607	0	0	0	0
60608	3	483	0	0
60609	0	0	1	12
60610	2	206	0	0
60611	0	0	0	0
60612	6	344	0	0
60613	0	0	0	0
60614	1	40	0	0
60615	23	996	0	0
60616	11	1852	1	20
60617	8	165	0	0

Table 5, continued

60618	0	0	0	0
60619	26	508	0	0
60620	21	546	0	0
60621	16	341	0	0
60622	0	0	0	0
60623	5	87	0	0
60624	4	113	0	0
60625	6	102	0	0
60626	10	445	0	0
60628	5	102	0	0
60629	18	380	0	0
60630	1	3	0	0
60632	5	29	0	0
60634	0	0	0	0
60636	2	7	0	0
60637	16	255	0	0
60638	0	0	0	0
60639	5	62	0	0
60640	9	756	0	0
60641	3	69	0	0
60642	0	0	0	0
60643	3	42	0	0
60644	15	450	0	0
60645	6	187	0	0
60647	2	42	0	0
60649	50	1565	0	0
60651	4	22	0	0
60652	0	0	0	0
60653	9	328	0	0
60655	2	15	0	0
60657	0	0	0	0
60659	4	59	0	0
60660	3	268	0	0
60690	0	0	0	0
60707	1	3	0	0
60714	2	80	0	0
60803	12	144	0	0
60804	0	0	0	0
60827	1	12	0	0
60901	1	70	0	0
60950	1	6	0	0
61008	8	40	0	0
61012	1	5	0	0
61016	0	0	0	0
61032	0	0	0	0
61073	2	8	0	0
61081	0	0	0	0
61087	0	0	0	0
61101	5	28	0	0
61102	0	0	0	0
61103	5	96	0	0
61104	3	20	0	0
61107	2	66	0	0
61108	28	181	0	0
61109	21	167	0	0
61111	1	40	0	0
61114	7	185	0	0
61115	1	4	0	0
61319	0	0	0	0
61764	0	0	0	0

Stipulations

- **Spending – Incentives, non-incentives and 1st year savings by MWh and Therms**

In Q2, the Multi-Family Energy Savings program allocated \$6,182,752 in ComEd incentives for efficiency upgrades within income eligible and public housing buildings and achieved 10,333 net MWhs and 126,410 net therms (to be converted to MWhs). Below (*Table 6*) is a breakout of savings and spend by program component (income eligible, public housing).

- The incentive and savings data are specific to ComEd and not the full program (the gas incentives and savings have been removed.)

Table 6

	Incentive Spend	Non-Incentive Spend	Net MWh Savings Achieved	Net Therms Achieved
Income-Eligible	\$5,707,463	\$2,621,604	10,097	126,410
Public Housing	\$475,289	\$86,504	236	0
Total	\$6,182,752	\$2,708,108	10,333	126,410

RSA § V (D-3a) ComEd commits to providing the following in its ICC-filed EE Quarterly Reports:

- 1) Number or proportion of diverse vendors by category (i.e., MBE, WBE and VOSB), as well as by primary contractors and subcontractors, and network service providers)
- 2) Breakdown of diverse vendors by category (i.e., MBE, WBE and VOSB)
- 3) Percent of or amount of portfolio dollars (excluding pass-through incentives) for diverse spend, by category (i.e., MBE, WBE and VOSB)

Q2 Updates

- Year to date, ComEd has utilized 23 diverse prime contractors (Tier 1) and 92 diverse sub-contractors and service providers (Tier 2). The following tables (*Table 7 and Table 8*) show a breakdown of vendor diversity and spend, by category.

Table 7

Tier 1	Spend (\$)	# Vendors
Diverse Category	YTD	YTD
MBE	\$ 18,137,294.38	8
MWBE	\$ 9,714,500.92	1
VOSB	\$ 694,112.13	1
WBE	\$ 3,613,627.41	13
Total	\$32,159,534.84	23

Table 8

Tier 2	Spend (\$)	# Vendors
Diverse Category	YTD	YTD
MBE	\$ 7,074,449.50	37
VOSB	\$ 4,837,890.14	6
WBE	\$ 15,392,397.62	49
Total	\$27,304,737.26	92

- **Data Definitions:**

- **Tier 1 vendors:** Prime diverse vendor
- **Tier 2 vendors:** Prime non-diverse vendor, subcontracting to a diverse vendor
- **Minority-owned Business Enterprise (MBE):** A for-profit enterprise, regardless of size, physically located in the United States, which is 51% owned, operated, and controlled by minority group members, defined by the following:
 - **Asian-Indian-owned business enterprise:** A U.S. citizen whose origins are from India, Pakistan, or Bangladesh
 - **Asian-Pacific-owned business enterprise:** A U.S. citizen whose origins are from Japan, China, Indonesia, Malaysia, Taiwan, Korea, Vietnam, Laos, Cambodia, the Philippines, Thailand, Samoa, Guam, the U.S. Trust Territories of the Pacific, or the Northern Marianas
 - **African-American-owned business enterprise:** A U.S. citizen having origins in any of the Black racial groups of Africa

Stipulations

- **Hispanic-owned business enterprise:** A U.S. citizen of Hispanic heritage, from any of the Spanish-speaking areas of the following regions: Mexico, Central America, South America, or the Caribbean Basin
- **Native-American-owned business enterprise:** A person who is an American Indian, Eskimo, Aleut, or Native Hawaiian, and is regarded as such by the community of which the person claims to be a part
- **Woman-owned Business Enterprise (WBE):** An independent business concern that is at least 51% owned and controlled by one or more women who are U.S. citizens or Legal Resident Aliens; whose business formation and principal place of business are in the U.S. or its territories; and whose management and daily operation is controlled by one or more of the women owners
- **Veteran-owned Small Business (VOSB):** A business that is at least 51% owned, operated, and controlled by one or more veterans
- **Minority- and Woman-owned Business Enterprise (MWBE):** A business falling under both MBE and WBE categories.

- Asbestos
- Mold
- Standing Water
- Mechanical Issues
- Plumbing Repair
- Electrical Issues
- Emergency Boiler

Table 9

Health and Safety Related Deferrals*	
Home Energy Savings	0
Multi-Family Energy Savings	0

*Note: Deferrals do not include IHWAP project deferrals.

Table 10

Health and Safety Related Spend YTD*	
Home Energy Savings	\$ 3,739,715
Multi-Family Energy Savings	\$ 1,008,312

*Note: Spend includes dollars spent on exhaust fans and emergency HVAC replacement, which also contribute to energy savings.

RSA § V (D-4a) ComEd commits to annually providing the following Health & Safety-related metrics for IE Whole Building Retrofit Programs at joint SAG and Committee meetings, in 4th quarter quarterly SAG reports, and in ICC-filed Annual Reports.

- 4) Number of properties deferred because of health and safety issues and general trends in the type of related H&S issues (will also be provided in ICC-filed Quarterly Reports).
- 5) The percentage and/or dollar amount of the Health and Safety Fund that has been spent down (will also be provided in ICC-filed Quarterly Reports)

Q2 Updates

- The following tables (*Table 9* and *Table 10*) show a breakdown of health and safety related deferrals and total spend year to date for IE retrofit programs. The type of health and safety issues identified include:
 - Structural issues
 - Roof issues

RSA § VIII (B-3) ComEd will report to the ICC in its ICC-filed Quarterly Reports on the progress of the Market Development Initiative (MDI) with the ICC-filed Annual Reports summarizing annual progress.

Q2 Updates

- During Q2, ComEd continued to work with a diverse vendor (Walker-Miller Energy Services) to translate the results of the research conducted in 2022 into a high-level program design, in preparation for an implementation RFP that will be conducted in early Q3. In addition, ComEd presented at the SAG Equity Subcommittee meeting on July 12, presenting a summary of research highlights and soliciting feedback on ComEd’s proposed MDI program design.

Total Resource Cost

CY2023 New Measures

All measures in the table below were launched in CY2023.

Sector	Program	Measure	IL TRC	Justification for TRC < 1.00
Residential	Retail/Online	Bath Fan	1.14	
Residential	Retail/Online	HP Dryer - Electrification	1.65	
Residential	Retail/Online	Induction Cooktop - Electrification	0.05	The savings two measures noted in the table (induction cooktop and HP dryer) were given with an assumption of an electric baseline, and thus do not have therms savings. There is limited market data on what percent of purchases for these items are due to fuel switching, so we assumed all would be electric-to-electric. The calculations and assumptions used are based on the IL TRM V11.
Residential	Retail/Online	Showerheads	23.05	
Residential	Retail/Online	Bathroom Faucets	1.55	
Residential	Retail/Online	Switch and Outlet Gaskets	38.70	
Residential	Retail/Online	Window Film	0.01	This measure is offered to improve the customer experience and provide a high level of customer satisfaction.
Residential	Retail/Online	Caulk	46.85	
Residential	Retail/Online	Spray Foam Insulation	162.28	
Residential	Retail/Online	Weatherstripping	6.13	
Residential	Retail/Online	Door Sweeps	9.96	
Residential	Multifamily Upgrades	Heat Pump Water Heaters	13.79	
Residential	Multifamily Upgrades	ASHP Heat Pump - Electrification	0.63	This electrification measure is offered in alignment with Illinois's Climate and Equitable Jobs Act (CEJA) allowance of fuel switching. ComEd may offer and promote measures that electrify space heating, water heating, cooling, drying, cooking, industrial processes, and other building and industrial end uses that would otherwise be served by combustion of fossil fuel at the premises, provided that the electrification measures reduce total energy consumption at the premises.
Residential	Multifamily Upgrades	Heat Pump Water Heater - Electrification	0.30	See above electrification measure justification
Residential	Multifamily Upgrades	Cooking Range - Electrification	0.14	See above electrification measure justification
Residential	Multifamily Upgrades	Clothes Dryer - Electrification	0.22	See above electrification measure justification
Residential	Single-Family Upgrades	Fossil to Electric or Induction Cooktop - Electrification	0.09	See above electrification measure justification
Residential	Single-Family Upgrades	Ductless Heat Pumps - Electrification	0.66	See above electrification measure justification
Residential	Single-Family Upgrades	Electric Clothes Washer - Electrification	0.22	See above electrification measure justification
Residential	Single-Family Upgrades	Electric Water Heater - Electrification	1.21	
Residential	Single-Family Upgrades	Heat Pump Water Heater (IE) - Electrification	0.21	See above electrification measure justification
Residential	Single-Family Upgrades	Air Source Heat Pump - Electrification	0.68	See above electrification measure justification
Residential	Single-Family Upgrades	Clothes Dryer (IE) - Electrification	0.18	See above electrification measure justification
Residential	Single-Family Upgrades	Dusk to Dawn LEDs	22.10	
Residential	Single-Family Upgrades	Shower Flow Reducer	36.32	
Residential	Single-Family Upgrades	Smart Socket	1.28	
Residential	Single-Family Upgrades	Air Handler Filter Replacement	3.12	
Business	Targeted Systems	Building Operator Certification	3.11	
Business	Midstream/Upstream	Fork Truck (Non-Fuel Switch)	1.42	
Business	Midstream/Upstream	Fork Truck (Fuel Switch) - EE	10.77	
Business	Midstream/Upstream	Ductless Mini-Split Heat Pump - EE	1.16	

Appendix: Program Descriptions

Program Descriptions

Home Energy Savings (Single-Family Upgrades)

Home Energy Assessments (Market Rate & Income Eligible), Retrofits (Income Eligible)

Overview: Under the Home Energy Savings program, ComEd provides three offerings for single family residential customers: Home Energy Assessments (HEA) - Market Rate, HEA - Income Eligible, and Income Eligible Retrofits. These offerings are closely linked through a centralized intake process and coordinated customer journey. Single family includes single family detached, vintage homes (30+years), manufactured homes, condo units, townhomes, two-flats, and duplex. The program offers free assessments and installation of energy savings products such as LEDs, water-saving devices, water heater pipe wrap, advanced power strips and thermostats with income eligible customers receiving all products installed for free. Certain income-eligible customers also receive comprehensive weatherization services. The program is delivered jointly with the Northern Illinois Gas Utilities (Nicor Gas, People Gas and North Shore Gas).

Multi-Family Energy Savings (Multi-Family Upgrades)

Market Rate, Income Eligible, Public Housing

Overview: The Multi-Family Energy Savings (MFES) program is a single comprehensive program offering that provides a full range of multi-family energy efficiency services. The MFES program consists of three offerings for 2022: Income Eligible, Public Housing, and Market Rate. This program offers efficiency upgrades for multi-family properties, including gas and electric measures for tenant units and common areas. This program offering is delivered jointly with the Northern Illinois Gas Utilities (Nicor Gas, Peoples Gas, and North Shore Gas). Income Eligible, Public Housing, and Market Rate Property owners/managers who complete weatherization and other energy efficiency improvements enjoy reduced operating costs, increased comfort in tenant spaces, increased occupancy rates, and improved property value. Additionally, building tenants experience increased comfort and reduced energy costs.

Whole Home Electrification

Overview: The Whole Home Electrification program refers to ComEd's initiative to convert income-eligible single family and multi-family homes and buildings to all-electric using highly efficient technologies. The offering includes comprehensive appliance and HVAC upgrades, building weatherization, and health and safety modifications required to safely and efficiently reduce reliance on fossil fuel energy sources, like gas and propane, for homeowners and residents in multi-unit homes. Prior to proceeding with a project, the

offering models energy bill impacts to ensure the upgrades will result in overall savings to the customer.

Home Energy Reports

Overview: The Home Energy Report provides select residential customers with information on how they use energy within their households. Reports and the online portal include usage comparison to that of similar, nearby households, personalized energy efficiency advice, program promotions, and application of behavioral principles and social norms to drive adoption of energy efficient behaviors.

Retail

Market Rate, Income Eligible

Overview: ComEd offers residential delivery customers rebates on select ENERGY STAR® certified appliance, home products and lighting products. Deeper discounts are available to income eligible customers on select products via instant discount at retail locations within zip codes where at least 60% or more of the households are at or below 80% Area Median Income (AMI) or through customized discount channels to pre-qualified income eligible customers, like Limited Time Offers (LTOs). Retail Program also includes incentives offered via the ComEd Marketplace.

Product Distribution

Food Bank (Income Eligible), IE Kits (Income Eligible), School Kits (Market Rate and Income Eligible)

Overview: Product Distribution includes kits (Market Rate and Income Eligible school kits and Income Eligible kits distributed through Community Action Agencies and other partners) and distribution of products through Food Banks, food pantries and other partners. By providing free energy efficiency products and education distributed through trusted channels, ComEd can reach more customers, particularly those most in need and introduce them to the wide-ranging benefits of energy efficiency including reduced energy usage, reduced energy costs, improved their quality of life and reduced environmental impacts.

Residential New Construction

Affordable Housing New Construction, Electric Home New Construction

Overview: Residential New Construction consists of two offerings for 2022: Affordable Housing New Construction (AHNC) and Electric Homes New Construction (EHNC). The AHNC Program offering provides technical support and incentives for whole-building energy efficiency for new construction and major renovation projects to reduce the energy burden for income eligible households by lowering their potential monthly energy costs.

Appendix: Program Descriptions

The program supports developers building or providing major renovation to affordable housing buildings, including both single and multi-family projects. The program offering's incentives are based on the square footage of the areas serving income eligible tenants, while upgrade requirements apply to the full building. The Affordable Housing New Construction offering is delivered in partnership with Nicor Gas.

The EHNC Program promotes high performance all-electric homes that allow ComEd customers to stack the benefits of all-electric energy efficiency, demand-response, electric vehicles, solar, and new rate structures. Program works with local builders and Home Energy Rating System (HERS) raters to ensure that new homes exceed the requirements of the state's energy code for increased energy savings.

Heating and Cooling

Overview: ComEd offers Heating & Cooling incentives to ComEd residential delivery customers that replace existing heating and cooling equipment with qualifying, high-efficiency central air conditioners, air source heat pumps, ductless mini-split heat pumps, geothermal (ground source) heat pumps, furnace blower motors (ECMs), or smart thermostats. Measures including central air conditioning (CAC), air source heat pump, and ductless mini-split heat pumps, are offered through a distributor (midstream channel). Measures including furnace blower motors (ECMs), smart thermostats, duct sealing, CAC tune ups, air source heat pump tune ups, and geothermal heat pumps, are offered by Energy Efficiency Service Providers (contractors) to residential customers and are downstream measures (incentives paid to customers through the participating EESP). Also offered downstream are incentives for new and replacement geothermal heat pumps that involve full loop systems.

Small Business

Private, Public

Overview: Offers private and public sector small business customers cost-effective turn-key energy efficiency retrofit and replacement services. These customers are typically underrepresented in energy efficiency programs due to limited staff and resources, lack of capital, and leased instead of owned facilities. To qualify for the program, private businesses and public facilities must have an electrical peak demand under 400 kW. Customer categories include, but are not limited to: warehouses, office, retail, restaurant, public libraries, police & fire stations and public K-12 schools.

Standard Incentives

Private, Public, ComEd Streetlights

Overview: The Standard Program provides monetary incentives to customers on a "Standard" fixed or per-unit basis. Standard offers incentives for common energy-efficiency improvements including: Indoor and outdoor lighting equipment (including networked

lighting and LED streetlights), HVAC equipment (e.g., variable speed drives, chillers, roof-top units), commercial appliances including industrial and laboratory equipment, compressed air equipment, and Energy Management Systems (EMS).

Custom Incentives

Private, Public

Overview: The Custom Program identifies and implements site-specific and unique cost-effective energy efficiency opportunities that are not available via the Standard program. Customized incentives based on per kWh basis and calculated for specific customer projects are offered. Measures include process efficiency improvements, IT equipment upgrades, process cooling, compressed air, VFDs on large motors, free cooling systems, refrigeration improvements, wastewater treatment plants, combined heat and power, and other measures not covered in the Standard offering.

Retro-Commissioning (RCx)

Private, Public

Overview: The RCx program provides customers with a fully funded engineering study to help business and public-sector customers optimize operations of existing building systems to reduce energy usage while continuing to maintain desired environmental conditions. Common energy conservation measures focus on control of HVAC and lighting using building automation systems. Typical participants include commercial office buildings, hospitals/health care facilities, and higher education buildings. RCx options include RCx Flex and a Monitoring-Based Commissioning (MBCx). Each conduct an engineering study identifying ECMs. Additionally, RCx includes a Virtual Commissioning (VCx) option which offers free identification of energy-saving measures and remote technical assistance for implementation. VCx focuses on smaller customers in which smart meter interval usage data is used to remotely identify operational savings opportunities.

Industrial Systems

Overview: The Industrial Systems program assists industrial customers to optimize and/or identify energy efficiency measures to improve the performance of the following systems or processes: Compressed air, process cooling, industrial refrigeration, water and wastewater treatment plant, process efficiency for heating and cooling in production.

Midstream/Upstream

Private, Public

Overview: ComEd provides point-of-sale discounts on commercial LED lighting and HVAC equipment, as well as industrial forklift battery chargers. Purchasers can verify customer

Appendix: Program Descriptions

and product eligibility through participating distributors using a full-service webtool, which reimburses distributors for incentives instantly provided to eligible purchasers.

Strategic Energy Management (SEM)

Private, Public

Overview: SEM helps organizations embed energy efficiency into their operations and company culture. Efforts ultimately allow for organizations to establish energy policies, improve operating efficiencies, and build budgets for energy efficiency efforts. SEM provides tools, coaching, and technical resources to support customers' energy goals through a year-long series of workshops and one-on-one coaching. It draws on principles of continuous improvement and organizational change and integrates Lean, Six Sigma, and other cost savings and operational excellence initiatives. SEM provides incentives for behavioral energy savings as well as operational measures.

C&I New Construction

Private, Public

Overview: The New Construction Program offering provides technical assistance, support for the Leadership in Energy and Environmental Design (LEED) rating system, and incentives for whole-building energy efficiency for new construction and major renovation projects to influence building design practices during the design and construction of new buildings, major renovations of existing buildings, and tenant build-outs in the C&I market. The program serves private commercial and industrial buildings (CINC) as well as public sector buildings (PSNC) through a combined offering. The New Construction Program offering is delivered in partnership with all the northern Illinois gas utilities.

Illinois Commercial Food Services

Private, Public

Overview: The Illinois Commercial Food Services offering provides instant discounts to the purchaser when buying qualified commercial food service equipment utilizing channels including manufacturers, manufacturer representatives, distributors, and dealers of food service equipment. This is a joint utility program available through the state of Illinois and includes Ameren Illinois, Nicor Gas, People's Gas and Northshore Gas. Customers benefit by receiving incentives for both qualifying electric and qualifying natural gas measures.

Assessments

Private, Public

Overview: Assessments identify energy saving measures (capital cost and operational) and provide information on available financial incentives for energy efficient equipment upgrades and retrofits. Assessments save energy annually and lower operating expenses

through implementation of recommended measures. The free Facility Assessment is a tool that helps customers take the first step toward making their facility more efficient by identifying opportunities to participate in the various programs within the EE portfolio. The assessments involve an initial site visit (in-person or virtual) where an engineer collects data regarding a facility. After the site visit, the engineer compiles all the opportunities with their estimated savings, costs, incentives, and simple paybacks into a report that is presented to the customer. Customers >10 MW (except for private commercial accounts that have opted out) are now eligible to have a free assessment and for the portfolio to claim operational savings measures.

Voltage Optimization

Overview: The Voltage Optimization Program deploys circuit voltage detectors and control equipment that will effectively assess and adapt the amount of voltage traveling across a power line at any given time. Once in place, these devices will allow ComEd to more precisely monitor, manage, and deliver the voltage customers need. No additional effort by consumers will be required as the control equipment will automatically adjust to consistently deliver only the voltage each customer requires while providing energy savings.

LIEEAC Budget Report



IQ-N Expenditure Report
IQ Energy Efficiency Committee (LIEEAC) - IQ-N

Commonwealth Edison Company
 Phil Halliburton
 2011 Swift Drive
 Oak Brook, IL 60523
 Philip.Halliburton@ComEd.com
 630-437-2403

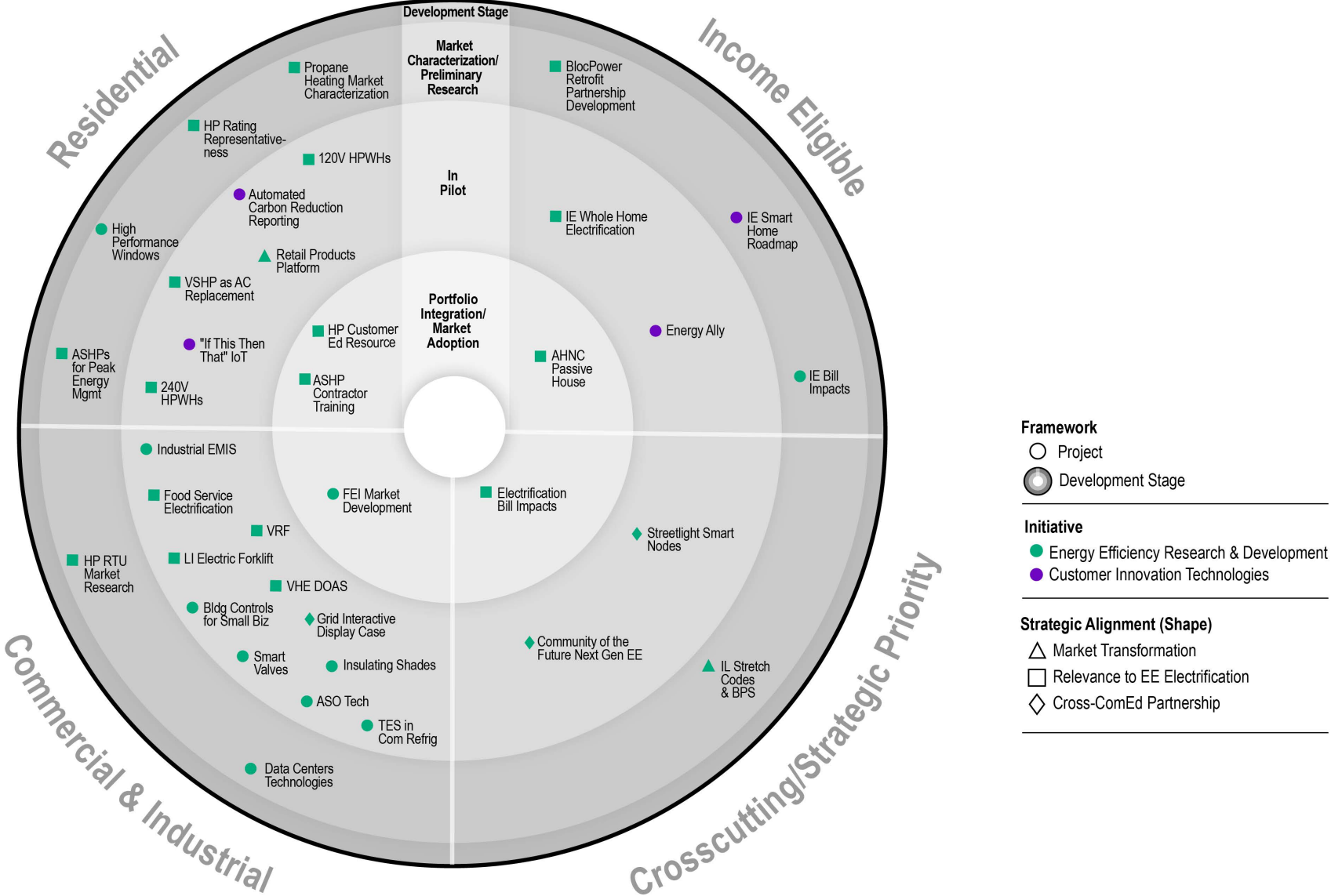
Future Energy Enterprises, LLC
 1800 Ridge Avenue, Suite 305
 Evanston, IL 60201
 (847) 920-0367
 Annette.Beitel@FutEE.biz

P.O. #	2046441, Release 1
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Cost Category	Total Budget	January	February	March	April	May	June	Year-to-Date Q1 and Q2	Remaining	Comments
Contract Release #1 (Facilitation) Budget										
Facilitation Labor, includes Initial Fixed Fee	\$458,417.13	\$6,419.24	\$14,724.05	\$23,411.45	\$12,371.27	\$ 12,372.20	\$ -	\$69,298.21	\$389,118.92	
Unallocated	\$ 52,716.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.00	\$52,716.55	No Submissions from LIEEAC YTD
2023 Release 1 - Total	\$511,133.68							\$0.00	\$441,835.47	No Submissions from LIEEAC YTD
Contract Release #2 Grants & Stipends) Budget										
Leadership Team Stipends or Grants	\$ 68,250.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68,250.00	No Submissions from LIEEAC YTD
Committee Participation Stipends	\$ 57,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,000.00	No Submissions from LIEEAC YTD
Education and Outreach Grants	\$ 417,947.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 417,947.32	No Submissions from LIEEAC YTD
Release 2 Total	\$ 543,197.32								\$ 543,197.32	
Overall Total	\$ 1,054,331.00								\$985,032.79	

Customer Innovation

ComEd Customer Innovation Portfolio Summary 2023 Q2



This visualization provides an overview of the Customer Innovation Team’s selected research concepts and projects for 2023, organized by stage of research and relevant customer segments. Further information about each project may be found in the following table. Project descriptions are available on the ComEd Customer Innovation website at [Innovate.ComEd.com](https://www.comed.com/innovate).

Customer Innovation Portfolio Summary 2023 Q2

Project	Work Description	Partners	Initiative	Project Type	Customer Segment	End Date	Status Update
Portfolio Integration and Market Adoption							
Affordable Housing New Construction Passive House	Integration of a PHIUS+ incentive tier into the Affordable Housing New Construction offering.	Slipstream	R&D	Market Development	Income Eligible	2024 Q1	Five PHIUS-tier affordable multifamily projects are in the pipeline, four of those projects are forecasted to complete in 2024 and one project is forecasted to complete in 2025.
Air Source Heat Pump (ASHP) Training	Series of educational activities designed to develop the EESP market for heat pumps.	Slipstream, Center for Energy and the Environment (CEE)	R&D	Market Development	Residential	2023 Q4	The team developed four new training modules, as well as a memo highlighting various options to consider in creating a designation for heat pump trained contractors. They are continuing to develop modules and provide trainings to contractors.
Electrification Bill Impacts Calculations	Analysis of and calculator creation for customer bill impacts related to electrification measures.	Center for Energy and Environment (CEE)	R&D	Customer Research	Crosscutting/Strategic Priority	2023 Q4	The project team implemented the Spring updates for the bill impacts calculators. These updates include requests from implementation teams, updates to rates, building in multifamily components, and running four multifamily case studies.
Fan Energy Index (FEI) Market Development	Integration of savings algorithm to Illinois TRM and new savings opportunity for C&I offering.	Slipstream	R&D	Market Development	Commercial and Industrial	2023 Q2	The project team focused on supporting potential integration through summarizing key findings from the previous project phase and analyzing product sales data which will be used to develop recommendations for strategies to engage and education design firms.
Heat Pump Customer Education Resource	Preparation of a web-based resource for customers and contractors to learn about the energy and bill impacts of switching to heat pumps.	Slipstream, CEE, Fahrenheit Creative Group	R&D	Market Development	Residential	2023 Q2	The project team developed heat pump educational content for customers and contractors and designed a clear and concise way to present it via a new ComEd microsite. The first phase of the website will launch in Q3 2023.
Income Eligible Smart Home Roadmap	A roadmap to identify income eligible (IE) customers who will have access to broadband in the near future and connect those customers with smart devices that will help them manage their home energy use.	Slipstream	CIT	Scaled Deployment	Income Eligible	2025 Q4	The project team is developing a summary of research and findings on the non-broadband solutions ComEd studied as well as their decision to focus on broadband home energy managements solutions moving forward.
In Pilot							
120V HPWH Field Demonstration	Testing the 120V HPWH in ComEd customer homes to understand installation experience, resident experience/satisfaction, and the equipment's performance.	Slipstream	R&D	Field Tests & Demonstrations	Residential	2024 Q4	The project team kicked off the project, developed the recruitment materials, and launched the recruitment effort. Recruitment has been successful so far and they will begin reviewing the screening information for prospective participants. The team is developing an M&V plan for the project evaluation. Installations are expected to start in late Q3 2023.
Automated Carbon Reduction Reporting (ACRR)	Builds on the "If This Then That" (IFTTT) program, making use of applets that control devices in response to carbon intensity and provide customers with information about the carbon emissions associated with their energy use.	WattTime, Calico	CIT	Scaled Deployment	Residential	2023 Q4	Project team started coordination with the IFTTT Assessment team to align on the ACRR and IFTTT evaluation efforts.
Commercial Building Automated System Optimization (ASO) Technology	Use of AI-based tools to optimize energy usage in commercial buildings through automated real-time management of energy-using systems.	Hank, Resource Innovations	R&D	Field Tests & Demonstrations	Commercial and Industrial	2024 Q2	Project stakeholders are meeting regularly to determine detailed building requirements and to develop strategies for performance monitoring and measurement/verification of energy savings. Contractors are coordinating on technical IT details, equipment configuration and monitoring plan on-site.
Commercial Food Service Electrification (eCFS)	Promotion of electrification opportunities within a high-potential commercial customer segment.	Frontier	R&D	Scaled Deployment	Commercial and Industrial	2025 Q4	eCFS with Frontier has begun Phase 1. Frontier has met with vendors for both market analysis for cost saving products and possible induction cooktop units for the loaner program. The R&D team will assess readiness to continue onto pilot launch upon a go/no-go at the conclusion of Phase 1.
Commercial Interior Insulating Shades	Field demonstration of insulating shades at a large commercial customer site to understand energy savings and customer experience.	Illinois Institute of Technology	R&D	Field Tests & Demonstrations	Commercial and Industrial	TBD	Field installation has completed. The customer is considering an expansion of the shades installations to additional floors of their building through the ComEd Custom offering..
Communities of the Future Next Generation HVAC Demonstration	Testing energy savings and customer experience in real-world conditions, focused on customers situated within ComEd's Communities of the Future areas.	Slipstream	R&D	Field Tests & Demonstrations	Crosscutting/Strategic Priority	2023 Q4	A high efficiency electric HVAC technology installation at a church in the Bronzeville neighborhood of Chicago has completed. Engagement with other key initiative participants, including the South Side Community Art Center in Bronzeville and the Boys & Girls Club in Rockford, IL are on track but will likely not complete until 2024
Grid Interactive Display Case	Lab-based testing of a new commercial refrigerated display case integrated system.	National Renewable Energy Laboratory (NREL)	R&D	Lab Testing	Commercial and Industrial	2023 Q4	NREL and manufacturer display case to grid system testing ongoing. Research team and manufacturer are engaging the Technical Advisory Committee for additional review of energy analysis.

Energy Ally	Pilot of an in-home display to communicate real-time, actionable energy use information targeted to income eligible customers with limited broadband connectivity to participate in programs to save energy.	The Will Group, Calico, Eire Direct Marketing, Prism	CIT	Scaled Deployment	Income Eligible	2025 Q4	Team completed an engagement campaign with existing customers. The team is working on outreach to new customers as well by collaborating with the income eligible weatherization team to develop a list of customers to reach out to and importing these customers into the database system that will be used to send outreach emails.
"If This Then That" Internet of Things	Optimization applets provide customers with options to automate participation in hourly pricing and peak time savings rates, as well as helping customers reduce energy and demand usage. The applets connect to select smart devices to enable automated control of these devices.	Calico, Slipstream	CIT	Scaled Deployment	Residential	2023 Q4	The CIT team initiated evaluation activities, by finalizing contracting, holding a project kickoff, reviewing program background, and initiating the program data request and customer survey.
Income Eligible Whole Home Electrification	Investigating energy savings, installation barriers and costs, and customer experience of whole-home electrification via a 100+ home field demonstration.	Elevate, Slipstream	R&D	Scaled Deployment	Income Eligible	2023 Q4	Between 2022 and June 2023, the project team has completed electrification retrofits at 47 single family residences, and has 14 single family and over 50 multifamily residences moving through the proposal, design and/or construction phase. The project team is conducting an assessment of energy savings for a subset of customers.
Industrial Energy Management Information System (EMIS)	Testing new program design approaches for implementing energy management information systems that help industrial customers optimize their energy use.	Leidos, EPS Energie	R&D	Field Tests & Demonstrations	Commercial and Industrial	2024 Q1	EMIS monitoring equipment has been installed in all pilot 4 locations. The project team is working with each participant to implement energy saving strategies and monitor savings, aiming for an end-of-year analysis.
Lithium-Ion Electric Forklift Case Studies	Creating real-world case studies for use in future promotional efforts.	DNV	R&D	Field Tests & Demonstrations	Commercial and Industrial	2024 Q1	Electric fork truck has been installed at the Case study site, with energy performance monitoring currently underway. The team is developing marketing materials for the Programs team to use.
Pressure Independent Control Valves Smart Retrofits	Testing energy savings and identifying a methodology and framework to accurately estimate savings for a novel commercial HVAC technology.	Slipstream	R&D	Field Tests & Demonstrations	Commercial and Industrial	2023 Q3	Energy monitoring is on-going at site with PICV installation and minor technical issues were overcome. Usage data has been gathered and operational control sequencing is being optimized.
Residential Heat Pump Water Heaters (240V)	Deploying COMEd's first HPWH installations to understand supply chain, market actor experience, potential customer adoption, and potential savings.	CLEAResult	R&D	Field Tests & Demonstrations	Residential	2023 Q3	All customer installations completed for the pilot totaling 41 installations. The pilot team is now monitoring performance and conducting customer surveys. The presentation of final results is scheduled for September to showcase barriers, costs, performance, and design suggestions.
Retail Products Platform	Testing of a national Market Transformation program delivery model which provides incentives to large retailers to use their influence with appliance manufacturers to bring more efficient models to market.	Northwest Energy Efficiency Alliance (NEEA), Energy Solutions	R&D	Market Development	Residential	2023 Q4	The administration of ComEd's ESRPP program fully transitioned to Energy Solutions. Q2 focused on setting up the program administration infrastructure.
Smart Controls for Small and Medium Commercial Buildings	Testing a two-tiered energy management system (EMS) offering for small business customers.	Resource Innovations	R&D	Field Tests & Demonstrations	Commercial and Industrial	2023 Q4	The project team coordinated product trainings for the participating service providers in preparation for the EMS installations. The service providers started recruiting small and medium sized business customers to participate in the pilot.
Smart Nodes for Streetlights	Addition of technology to allow improved control of LED streetlights	ComEd Internal	R&D	Field Tests & Demonstrations	Crosscutting/Strategic Priority	TBD	Installation of smart nodes for streetlights has been completed for two communities. Analysis of energy savings enabled by the smart nodes will be performed. Evaluation discussions with Guidehouse are underway.
Thermal Energy Storage and Advanced Controls for Commercial Refrigeration	Testing novel advanced controls for large refrigeration systems in real-world conditions.	Slipstream	R&D	Field Tests & Demonstrations	Commercial and Industrial	2023 Q4	Project team recruited four sites for participation. Installation and M&V is underway. A fifth site is still in process.
Variable Refrigerant Flow HVAC	Test of VRF systems to quantify energy savings potential and comfort benefits in cold climates.	Slipstream	R&D	Field Tests & Demonstrations	Commercial and Industrial	2023 Q4	A draft final report was submitted as is currently under review. Two case studies finalized and delivered to ComEd. TRM workpaper completed and delivered.
Variable Speed Heat Pump (VSHP) as AC Replacement	Assessment of the performance, energy savings and cost savings of variable speed heat pumps as replacements for AC units.	Center for Energy and Environment (CEE)	R&D	Field Tests & Demonstrations	Residential	2023 Q4	The project team monitored and performed quality control on the data from their submetering instrumentation and developed a survey instrument for participants. The major next steps for their work will come during analysis, which may occur this Fall.
Very High Efficiency Dedicated Outdoor Air System	Testing the VHE HVAC systems approach for HVAC retrofit/replacement installations to improve ventilation and indoor air quality while reducing building energy use.	Institute for Market Transformation (IMT), Slipstream, Ventacity	R&D	Field Tests & Demonstrations	Commercial and Industrial	2024 Q2	System monitoring is ongoing in the first customer install site. Analysis expected in late summer. Second site is on schedule for August completion. Third project site is in process but there have been delays.

Market Characterization and Preliminary Research

Air Source Heat Pumps (ASHPs) and Phase Change Materials for Peak Energy Management	Development of a novel residential heat pump system with integrated thermal storage.	Lawrence Berkeley National Lab, Oak Ridge National Lab, GTI Energy, Emanant Systems	R&D	Market Characterization	Residential	2025 Q4	ComEd is involved as a supporting utility partner on this DOE-funded research project. The system of focus is being developed in 2023, with lab tests expected to begin in 2024.
BlocPower Retrofit Partnership Development	Development of mapping and promotional tools to provide better outreach for customer electrification programs.	BlocPower	R&D	Market Characterization	Income Eligible	2023 Q2	Project team submitted final project deliverables which are currently under review.
Heat Pump Rating Representativeness Initiative	Research partnership to improve standardized performance testing for heat pumps.	Northeast Energy Efficiency Partnership (NEEP)	R&D	Lab Testing	Residential	2023 Q3	Phase 2 is underway. The project team began lab testing, which will be compared to Phase 1 field testing.
Heat Pump Rooftop Unit Market Research	Market research to understand the current state of the market for heat pump RTUs, to develop program recommendations and to inform a potential field demonstration.	Center for Energy and Environment (CEE)	R&D	Market Characterization	Commercial and Industrial	2024 Q2	Project kicked off in Q2. Phase 1: Market Research is underway, CEE is currently working with ComEd on series of data requests to leverage existing information.
High Performance Window Market Characterization	Market research to understand the potential for adoption of residential high performance windows	Resource Innovations, Nicor Gas	R&D	Market Characterization	Residential	2023 Q2	The project completed and the project team submitted the final report which is now under review.
Illinois Building Code Advancement	Development of a market transformation approach to drive energy savings through advancement of energy codes and building performance standards	Slipstream, Midwest Energy Efficiency Alliance (MEEA), Nicor Gas	R&D	Market Development	Crosscutting/Strategic Priority	2023 Q4	The project team is working on direct outreach to cities and developing a Natural Market Baseline (NMB) for both Building Codes and Building Performance Standards. Regular evaluation pathway discussions and small team meetings are well attended and include representation from Guidehouse.
Income Eligible Weatherization Bill Impacts	Analysis of bill impacts of energy efficiency measures for income eligible customers.	Resource Innovations, Nicor, Peoples Gas, North Shore Gas	R&D	Customer Research	Income Eligible	2023 Q2	The project completed and the project team submitted the final report. The R&D team is working internally to develop an analytical approach to identifying customer bill impacts post-weatherization.
Liquid Cooling in Data Centers	Characterization of the data centers market and assessment of the barriers to adoption for an advanced energy-saving technology.	ERI	R&D	Customer Research	Commercial and Industrial	2023 Q3	The project team engaged with large data center customers via surveys and phone interviews. A final report is in progress to summarize the barriers and lessons learned from the customer interviews.
Propane Heating Market Characterization	Market characterization of ComEd's residential propane heating customers.	Slipstream	R&D	Market Characterization	Residential	2023 Q2	The project team completed all research tasks and developed a final report. The R&D team is working closely with the Residential programs team to develop next steps for heat pump promotion to propane heating customers.