



CY2023 FIRST 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 \$7.9 billion on energy bills and avoided close to 73 billion pounds of carbon through its energy efficiency programs.

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Portfolio Summary

285,952

Actual Net MWh YTD

1,544,844

2023 MWh Forecast

\$72,483,277

Actual Spend YTD

\$439,746,496

2023 Budget

PORTFOLIO

- Through Q1, the portfolio has achieved approximately 19% of its 2023 savings forecast.
- Since its inception in 2008, the ComEd Energy Efficiency Program has saved ComEd customers over \$7.9 billion on their electric bills.

RESIDENTIAL IMPLEMENTATION

- Through Q1, market rate residential programs have achieved 17% of their combined 2023 savings forecast of 133,386 MWh, not including converted therms.
- Through Q1, income eligible residential programs have achieved 22% of their combined 2023 savings forecast of 374,675 MWh, not including converted therms.
- Customers have received over 450,000 incentives through Q1.
- Over 7,800 homeowners & tenants – consisting of over 4,900 income eligible participants - have received direct install products from assessments through Q1.

C&I IMPLEMENTATION

- Through Q1, business sector programs have achieved 19% of their combined 2023 savings forecast of 546,495 MWh.
- Public sector programs have achieved 11% of their combined 2023 savings forecast of 128,345 MWh.
- Through Q1, over 1,840 private sector projects and over 230 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 Q1, the program introduced four new measures to the offering - door sweeps, shower flow reducers, air handler filters and smart sockets. Collectively, these new measures can offer up to an additional 602 kWh per home. Starting in Q1 the program is limiting the number of LED bulbs for market rate customers to 5. The program is off to a strong start. In total, 4,257 assessments have been completed an increase of 60% compared to Q1 2022. Notably, income eligible assessments make up 44% of completed assessments compared to 17% in Q1 in PY2022.
- **Home Energy Savings (HES) - Income Eligible Retrofits** – With 766 comprehensive retrofit projects completed in Q1 for income eligible customers, the year is off to a strong start in terms of production, serving 109 more customers than initially planned. In Q1 the offering added two new Energy Efficiency Service Providers (EESPs), Building Energy Experts and Comfort First. With these new additions the offering now has the ability to offer comprehensive services across ComEd's full service territory, though service provider capacity is limited in some geographic areas. Program enrollments by service providers and community partners accounted for 20% of enrolled customers in Q1. Seven community-based organizations are actively partnering with HES as formal Enrollment Partners or Outreach Partners or in an informal Awareness Partner capacity, helping to get the word out to income eligible customers about Home Energy Savings. For the Illinois Home Weatherization Assistance Program (IHWAP) braided portion of HES, the following agencies completed a total of 65 braided projects in Q1 in ComEd territory: Community and Economic Development Association of Cook County (CEDA), McHenry, DuPage, Tri-County, and Will County.
- **Multi-Family Energy Savings (MFES) - (Market Rate, Income-Eligible, and Public Housing)** – In Q1, the Income-Eligible offering completed nearly 270 energy efficiency retrofit projects, direct installation of over 2,200 energy efficiency measures, and dispersed more than \$3.1M in incentives, with the largest portion (~\$2 million) allocated towards weatherization projects. Weatherization is fully covered through the program for income-eligible properties. Over \$480,000 was utilized to address health and safety hazards that enabled energy efficiency work to proceed safely. The Public Housing offering is off to a slow start, with four energy efficiency projects completed and \$47,250 in incentives allocated in Q1. Currently the program is actively engaged with six Public Housing Authorities which include: Rockford Housing Authority, Chicago Housing Authority, Housing Authority of Cook County, Jo Daviess Housing Authority, Lee County Housing Authority, and DeKalb County Housing Authority, and anticipates an increase in production in Q2. The Market Rate offering completed over 40 energy efficiency retrofit projects, direct installation of nearly 550 energy efficiency measures in 54 buildings, and distributed over \$840,000 in incentives. The MFES Program currently has 93 EESPs in the network, with 27% being certified as diverse business enterprises. The program was excited to launch its new Operational Efficiencies opportunity in Q1, which applies the successful model of Strategic Energy Management to the multi-family building sector. This new offering will enable income-eligible and public housing property owners to identify and implement low-cost and no-cost savings opportunities. Q1 activities largely focused on outreach to identify and recruit the first cohort participants.

Residential Implementation Programs

- Whole-Home Electrification (Single and Multi-Family Upgrades Electrification - IE)** – The whole home electrification offering spent most of Q1 finalizing customer-facing program materials and the multi-family incentive strategy and amounts. Program calculators used to estimate customer energy bill impacts were also updated to reflect the latest energy rate inputs and ensure savings estimates aligned with the latest iteration of the IL TRM. 12 customers had in-person assessments conducted for the offering in Q1, with construction scheduled or in the process of being scheduled, based on assessment findings and modeled energy bill impacts.
- Home Energy Reports (HER)** – A new appliance disaggregation feature was released in the online *What Uses Most* widget and *Post-Bill Weekly Report*. This update provides additional insights into how electricity costs break down by end-use equipment, including refrigeration, lighting, electronics, and appliances. ComEd's MyAccount video was updated and launched on the website (link: [My Account Online Tools](#)). The video describes the resources and tools available to customers through MyAccount and captures all recent enhancements including the appliance disaggregation updates. The HER program ran an Easy Open Home Energy Analysis (HEA) campaign in January and February. Easy Open HEA gives customers quick access to the online questionnaire that informs their home profile without needing to log into their account. Filling out the questionnaire leads to a more accurate neighbor comparison, appliance disaggregation, and highly personalized savings tips. The Easy Open HEA campaign resulted in an additional 2,313 customers engaging with HEA and a 97% completion rate.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Home Energy Savings – Market Rate Assessment	318	22%	2,372	Homes
Home Energy Savings – Income Eligible Assessment	1,200	12%	1,885	Homes
Home Energy Savings – Income Eligible Retrofits	1,190	20%	766	Homes
Multi-Family Energy Savings – Income Eligible	1,373	9%	Tenant Unit Direct Installation: 2,271 Building Upgrades: 269	Projects
Multi-Family Energy Savings – Public Housing	20	4%	Tenant Unit Direct Installation: 0 Building Upgrades: 4	Projects
Multi-Family Energy Savings – Market Rate	1,651	28%	Tenant Unit Direct Installation: 543 Building Upgrades: 42	Projects
Whole-Home Electrification	45	1%	Single Family Homes: 1 Multi-Family Buildings: 0 Tenant Unit Conversions: 0	Projects
Home Energy Report	13,439	21%	Home Energy Reports (print): 1,634,243 Home Energy Reports (email): 2,481,342 High Usage Alerts: 451,113 Weekly Usage Reports: 2,194,550	Reports and Alerts

Residential Implementation Programs

Residential Channels Program Highlights

- **Retail (Market Rate and Income Eligible)** – During Q1 and for the first time since 2019, the Retail program re-launched retail in-store engagements (post-COVID) with 30 completed in-store educational events during Q1, engaging over 2,000 customers. The first Limited Time Offer (LTO) directed to income eligible customers of the year over-performed with 17,977 ENERGY STAR certified air purifiers orders, just below the expanded 18,000 order limit. Mid-stream recycling started the year strong with almost 200 pick-ups in Q1 and the addition of several more participating businesses.
- **Product Distribution (Market Rate and Income Eligible)**
 - **Food Bank Distribution** – The program distributed more than 620,000 products during Q1, including 603,432 ENERGY STAR certified lighting products, 2,800 water-saving products, 2,142 advanced power strips, and 4,884 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 339 participating food pantries. In addition, to the food pantries, the program hosted 9 in-person events during Q1 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. An event in the Pilsen neighborhood at the end of March provided an opportunity to distribute energy saving products and informational material to over 250 income eligible customers who attended a parent-focused career day, hosted by the Chicago Public Schools.
 - **Income Eligible Kits** – The program distributed more than 12,900 kits during Q1. Almost 11,000 of these kits were initiated from leads provided by CEDA. There are currently 8 CAAs participating. CAAs continue to be a key provider of customer outreach, recruitment, and enrollment leads for kit distribution.
 - **School Kits** – The program delivered 3,623 joint income eligible school kits; 62% of these were provided in partnership with Peoples Gas. The program delivered an additional 5,259 joint market rate school kits; 80% were provided in partnership with Nicor Gas. During Q1, in-person outreach efforts were performed at a pace of two weeks per month, to drive participation levels, with the goal of visiting 12 schools per day, for a total of 240 schools.
- **Residential New Construction – (Affordable Housing and All-Electric)** – During Q1, the Affordable Housing New Construction Program completed one 55-unit project, for income eligible customers, in the Waukegan area. The program also had the opportunity to present and lead panel discussions on all-electric buildings at the 2023 Illinois Affordable Housing Forum. All-Electric Homes New Construction outreach is working hard to grow the program's pipeline. Year-to-date, the program has successfully generated 203 leads, which produced 25 new builders recruited into the program. A total of 4 all-electric home projects have been completed year-to-date.

Residential Implementation Programs

- Heating and Cooling** – Through Q1, the program processed 1,550 discounts, for 697 high efficiency Central Air Conditioners (CACs), 669 heat pump systems (air source and mini splits), and 167 smart thermostats. Heat pumps continue to be high in demand since the incentive increases in late 2022. The program is actively working with distributors and manufacturers to facilitate heat pump training to service providers.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Retail – Market Rate	4,805	9%	Home Products: 16,910	Appliances
Retail – Income Eligible	28,088	23%	Home Products: 22,342 Lighting: 409,247	Appliances; Light Bulbs
Product Distribution – Market Rate	996	18%	5,259	School Kits
Product Distribution – Income Eligible	50,172	23%	622,208	Bulbs and weatherization measures
Residential New Construction – Affordable Housing	98	9%	1	Projects
Residential New Construction – All Electric	70	6%	4	Homes
Heating and Cooling - Midstream/ Rebates	860	32%	1,550	Units

C&I Implementation Programs

Business Program Highlights

- **Small Business (Private and Public)** – In Q1, the program concluded a successful Early Bird campaign, with approximately 3,800 project applications submitted, representing 170 Net GWh. In addition, Q1 produced a robust pipeline of projects in Disadvantaged Communities, including over 1,200 projects, with 57.2 Net GWh savings and \$21.3M in incentives.
- **Standard (Private and Public)** – A 25% additional incentive was added for preapplications received in Q1. This promotion, combined with increased incentives, drove March 2023 record preapplication volume for the Standard Offering. ComEd introduced an updated version of the Standard online application submittal portal and is receiving positive feedback from customers and EESPs.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Small Business - Private	39,842	22%	1,251	Projects
Small Business – Public	2,554	5%	72	Projects
Incentives – Standard - Private	22,173	14%	408	Projects
Incentives – Standard – Public	2,918	7%	117	Projects

C&I Implementation Programs

Technical Program Highlights

- **Custom** – Start Strong promotion ended in Q1 resulting in 11 final applications, totaling 1 million net kWh. The Technical Customer Advocate (TCA) role was also introduced to customers. This role works with EESPs and customers to shepherd projects through the program process. Positive feedback from customers has been received on the new role, which offloads some of the application process work from customers and EESPs. The Custom offering also participated in the Industrial Systems EESP kickoff meeting, as a cross-promotional opportunity to talk about the Custom offering and how to get started with projects.
- **Retro-Commissioning (RCx)** – A 2023 EESP kickoff was held in January, with 100% in-person attendance from active EESPs. For 2023, the program added Real-Time Virtual Commissioning (RT-VCx) and Building Operator Certification (BOC) to the suite of program offerings. RT-VCx improves on the existing Virtual Commissioning (VCx) offering, by analyzing minute-by-minute, meter-level energy information, using artificial intelligence to remotely identify and verify deeper savings. BOC is a series of building operator trainings in energy efficiency best practices. The RCx program offers full tuition reimbursement for qualified BOC attendees, who complete the curriculum.
- **Industrial Systems** – A 2023 EESP Kick Off event was held in February, with excellent attendance and positive feedback on program updates, four technical sessions, and a roundtable for ideas to improve program offerings. The program also formalized the work-in-progress (WIP) payment option that has positive feedback from EESPs, to motivate customers to move forward with long lead-time equipment purchases for energy efficiency projects. Four new EESPs were added to the network in Q1.
- **Strategic Energy Management (SEM)** – Eleven treasure hunts were completed in Q1, comprising 35% of planned energy scans for alumni customers. Twenty-four additional customers completed a BAS deep dive, completed an annual plan, or received a refreshed opportunity register in Q1. The Q1 virtual roundtable was held on March 23, with the topic “SEM Tenets for Project Implementation.” The roundtable attracted attendees from over 30 organizations and featured project work. Three additional SEM workshops were held for customers, including “Foundations of SEM” for new customers and an alumni refresher. A paid ad campaign (through Google) began in February and continues throughout the year. Results from February and March include over 70,000 impressions and over 20,000 clicks, with a 29.6% clickthrough rate. This is the first of several new marketing campaigns that the SEM program is initiating to expand awareness of the ComEd SEM program.
- **C&I New Construction (CINC)** – Currently 9 projects are enrolled under the High Performance Design incentive for meeting a green rating system (e.g., LEED, WELL, Living Building Challenge, Green Globes, Passive House). CINC also launched an advertorial campaign with Bisnow Chicago to promote Sketchbox, the free online modeling tool available to participants. The article ran for 5 days and received 94,000 impressions, resulting in 73 outreach leads so far.

C&I Implementation Programs

- **Midstream/Upstream (Instant Discounts)** – Fork truck technology energy efficiency incentives were added and launched at the end of Q1; related communication to distributors and manufacturers began in Q1 and has sparked a high level of interest in the market.
- **Commercial Food Services (CFS)** – CFS is a statewide program, including all electric and natural gas utilities, that incentivizes customers to make energy-efficient choices. The program transitioned from a pilot in 2022 to a program in 2023, joining the Plan 6 portfolio. Existing active participants (dealers and suppliers) from the 2022 pilot program were successfully transitioned to the full program for 2023-2025. Less engaged participants from 2022 are being encouraged to be more active in 2023. The implementation team recruited and enrolled new participants in Q1, with additional participant enrollments and increased savings anticipated for Q2, as marketing and outreach efforts reach full speed.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Incentives – Custom – Private	1,293	12%	6	Projects
Incentives – Custom – Public	136	12%	1	Projects
Retro-commissioning – Private	1,783	5%	12	Projects
Retro-commissioning – Public	1,249	9%	2	Projects
Industrial Systems	3,988	8%	59	Projects
Strategic Energy Management – Private	0	0%	87	Participating Customers
Strategic Energy Management – Public	0	0%	25	Participating Customers
C&I New Construction – Private	781	8%	11	Projects
C&I New Construction – Public	221	13%	4	Projects
Midstream/Upstream – Private	34,705	56%	309,131	Lighting products; battery chargers; HVAC
Midstream/Upstream – Public	6,660	43%	90,608	Lighting products; battery chargers; HVAC
Commercial Food Services - Private	145	15%	75	Units
Commercial Food Services - Public	23	32%	2	Units

C&I Implementation Programs

Engineering Program Highlights

- **Facility Assessments/Operational Measures** – In Q1 2023, 12 operational savings projects have been verified, for a total savings of 174 MWh. Additionally, 4.6 GWh were added in Q1, for a total pipeline of 19 GWh. Operational measures typically take a few months to be implemented after identification. Savings from these measures identified are anticipated in Q2–Q4 this year.

Program	Net MWh YTD	% Savings Achieved of LRP YE	Program Participation YTD	Unit Definition
Assessments – Private	36	1%	2	Verified Wins
Assessments – Public	134	15%	10	Verified Wins

Voltage Optimization

Voltage Optimization Highlights

- Savings below are equivalent to 11.5 million pounds of carbon dioxide reduction or removing 1,135 passenger vehicles driven each year.

Program	Net MWh YTD	% Savings Achieved of YE Forecast	Program Participation YTD	Unit Definition
Voltage Optimization	13,559	12%	1 station; 31 feeders	Stations Activated; Feeders Activated

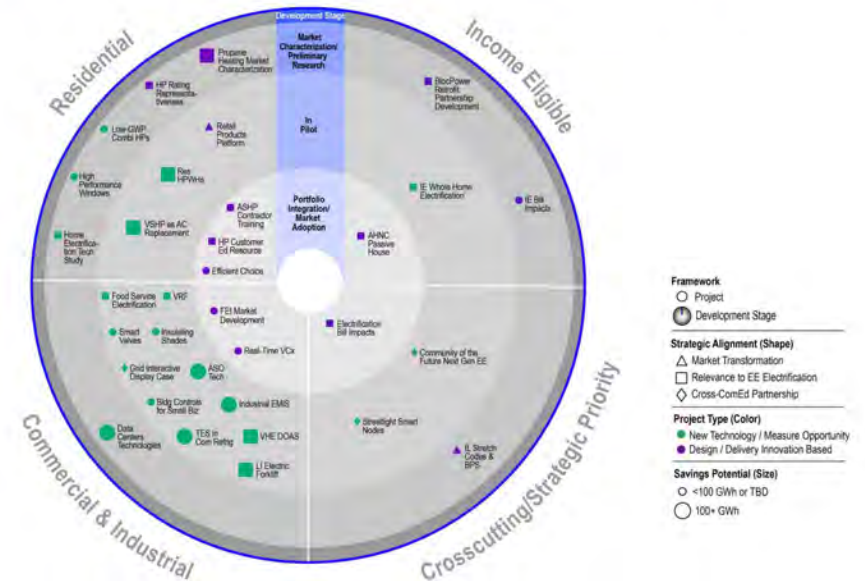
Emerging Technologies and Market Transformation (“R&D”)

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.

- Please refer to the *R&D Summary* section in the Appendix for a summary of active Emerging Technologies and Market Transformation projects.

ComEd Energy Efficiency Program R&D Portfolio Summary 2023 Q1



This visualization provides an overview of the R&D Team's active research concepts during Q1 2023, organized by stage of research and relevant customer segment. Further information about each concept may be found in the following table.

Marketing Education & Awareness

Marketing Education & Awareness Q1 Highlights

Energy Efficiency Business Campaign 2022 – Seamless

Overview: The campaign was created to promote awareness of the energy efficiency offerings for business customers with a call to action of [ComEd.com/PoweringBiz](https://www.comed.com/PoweringBiz).

- In-market: 7/11/22 - 2/5/23
- Q1 2023 paid media consisted of WGNRadio.com page takeovers the week of 1/9/23 and the week of 1/23/23 & CHGO Podcast & Video mentions that ran 1/1/23 - 2/5/23
- The campaign generated 6,715,711 total digital impressions as of Feb. 28, 2023

Residential Energy Efficiency Campaigns 2022 – Home full of Savings

Overview: This campaign was created to talk about our available offerings for residential customers with a call to action of [ComEd.com/HomeSavings](https://www.comed.com/HomeSavings).

- In-market 1/2/23 - 1/29/23 (Cinema ran in Jan. as an extension of the 2022 campaign, all other tactics ended in Dec.)
- Cinema generated a total of 601,627 impressions as of Jan. 29, 2023

Energy Efficiency – Distressed Communities Business Campaign and K-12 Schools 2022

Overview: The campaign was created to promote awareness of our public sector offerings for K-12 schools and small businesses within distressed communities.

- In-market:
 - K-12 message was in-market 3/7/22 - 5/8/22 & again 10/3/22 - 1/29/23
 - The Distressed Communities message was in market 5/4/22 - 10/30/22
- In January, the K-12 Schools flight consisted of paid Social Display and Social Video on Facebook
- The campaign generated 30,865,473 total digital impressions as of Jan. 29, 2023

Energy Efficiency – Business Case Studies Campaign 2022

Overview: The campaign was created to increase awareness of Standard and Small Business by driving customers to existing case studies around local business heroes/iconic Chicago businesses.

- In-market through 10/24/22 - 1/22/23
- Q1 2023 paid media consisted of NBC Sports Live TV Announcements on Blackhawks and Bulls broadcasts and radio :30s during various WGN Radio business content
- The campaign generated 11,664,009 digital impressions as of Jan. 22, 2023

Energy Efficiency Business Campaign 2023 – Seamless

Overview: The campaign was created to promote awareness of energy efficiency offerings for business customers. Customers were driven to [ComEd.com/PoweringBiz](https://www.comed.com/PoweringBiz).

- In-market: 2/6/23 - 7/3/23
- Q1 2023 paid media consisted of TV :30s, :30s and in-game units on Chicago Blackhawks & Chicago Bulls radio broadcasts, digital display, paid social display on Facebook and LinkedIn, and digital billboards
- The campaign generated 2,237,182 total digital impressions as of March 26, 2023

Marketing Education & Awareness

Clean Energy/EV Campaign 2023

Overview: This campaign was created to increase awareness of ComEd's EV support, information, and tools as well as communicate ComEd's commitment to a clean energy future. Customers were driven to a newly created landing page, ComEd.com/CleanEnergy.

- In-market: 2/6/23-5/28/23
- Included Radio, Digital, Social, and OOH
- The campaign generated 623,400 total digital impressions as of March 26, 2023

Community of the Future Campaign 2022

Overview: The campaign was created to Highlight how ComEd is partnering with communities to provide tailored solutions based on their needs and to exhibit how ComEd is customer-, improvement-, and technology-focused.

- In-market through 12/5/22 - 1/9/23
- Q1 2023 paid media consisted of paid social display on Facebook, digital display, poster billboards, and transit shelters
- The campaign generated 756,079 digital impressions as of Jan. 29, 2023

Reliability "Trigger" Campaign 2023

Overview: The Reliability campaign was created to make customers aware of the dependability of information from the ComEd app. "Trigger" encourages customers to download the ComEd app to stay informed of potential service interruptions when inclement weather is in the forecast.

- In-market only when inclement weather occurs
 - Feb.: 2/8 - 2/9, 2/14 - 2/15, 2/22 - 2/23, 2/27
 - Mar.: 3/3, 3/9 - 3/10, 3/16 - 3/17
- Q1 2023 paid media consisted of paid social display on Facebook, digital display, and digital billboard
- The campaign has generated 1,724,914 impressions as of March 31, 2023

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.)

Q1 Updates

- **Metric 1:** During Q1 of 2023, over 87K 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 56k LIHEAP customers and 22k PIPP customers in Q1
 - Supplemental Arrearage Reduction Program (SARP) customers receive Energy Efficiency information from ComEd packaged as Ways to Save
 - There were 11k SARP customers in Q1

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 Q1, 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.

The following list represents a breakdown of customers referred to EE programs broken down by program for the top 20 zip codes with the

Stipulations

highest disconnection rates (zip codes 60944, 60958, and 61057 did not have any customer participation):

Zip Code / Program	Number of Customers	Zip Code / Program	Number of Customers	Zip Code / Program	Number of Customers
60409	86	60620	90	60636 (cont.)	
Budget Billing	3	Budget Billing	7	Peak Time Savings	10
Due Date Extensions	3	Free Energy Savings Products	9	Retail Discounts	9
Free Energy Savings Products	8	Give A Ray	8	SARP	11
Give A Ray	7	Home Energy Savings	9	60637	88
Home Energy Savings	9	LIHEAP	12	Budget Billing	1
LIHEAP	11	Multi Family Energy Savings	2	Free Energy Savings Products	7
Payment Arrangements	11	Payment Arrangements	6	Give A Ray	5
Peak Time Savings	9	Peak Time Savings	10	Home Energy Savings	7
Retail Discounts	7	Retail Discounts	9	LIHEAP	11
SARP	18	SARP	18	Multi Family Energy Savings	7
60419	27	60621	29	Payment Arrangements	12
Budget Billing	1	Free Energy Savings Products	2	Peak Time Savings	10
Due Date Extensions	2	Give A Ray	2	Retail Discounts	6
Free Energy Savings Products	1	Home Energy Savings	2	SARP	22
Give A Ray	1	LIHEAP	6	60644	72
Home Energy Savings	2	Multi Family Energy Savings	1	Budget Billing	2
LIHEAP	7	Payment Arrangements	3	Due Date Extensions	5
Payment Arrangements	3	Peak Time Savings	3	Free Energy Savings Products	6
Peak Time Savings	2	Retail Discounts	2	Give A Ray	6
Retail Discounts	1	SARP	8	Home Energy Savings	5
SARP	7	60623	64	LIHEAP	11
60426	76	Budget Billing	2	Multi Family Energy Savings	4
Budget Billing	3	Free Energy Savings Products	9	Payment Arrangements	9
Due Date Extensions	2	Give A Ray	7	Peak Time Savings	5
Free Energy Savings Products	9	Home Energy Savings	5	Retail Discounts	3
Give A Ray	8	LIHEAP	8	SARP	16
Home Energy Savings	8	Multi Family Energy Savings	4	60649	120
LIHEAP	7	Payment Arrangements	7	Budget Billing	6
Multi Family Energy Savings	2	Peak Time Savings	6	Due Date Extensions	1
Payment Arrangements	8	Retail Discounts	5	Free Energy Savings Products	9
Peak Time Savings	8	SARP	11	Give A Ray	8
Retail Discounts	7	60624	62	Home Energy Savings	9
SARP	14	Budget Billing	2	LIHEAP	18
60428	8	Free Energy Savings Products	6	Multi Family Energy Savings	7
Free Energy Savings Products	1	Give A Ray	5	Payment Arrangements	16
Give A Ray	1	Home Energy Savings	5	Peak Time Savings	11
Home Energy Savings	1	LIHEAP	12	Retail Discounts	8
LIHEAP	1	Multi Family Energy Savings	3	SARP	27
Payment Arrangements	1	Payment Arrangements	5	60827	81
Peak Time Savings	1	Peak Time Savings	6	Budget Billing	3
Retail Discounts	1	Retail Discounts	4	Free Energy Savings Products	9
SARP	1	SARP	14	Give A Ray	8
60472	17	60628	129	Home Energy Savings	8
Free Energy Savings Products	2	Budget Billing	6	LIHEAP	9
Give A Ray	2	Due Date Extensions	1	Multi Family Energy Savings	1
Home Energy Savings	2	Free Energy Savings Products	14	Payment Arrangements	11
LIHEAP	2	Give A Ray	11	Peak Time Savings	11
Payment Arrangements	2	Home Energy Savings	15	Retail Discounts	8
Peak Time Savings	2	LIHEAP	13	SARP	13
Retail Discounts	2	Multi Family Energy Savings	4	60958	8
SARP	3	Payment Arrangements	12	Free Energy Savings Products	1
60619	114	Peak Time Savings	13	Give A Ray	1
Budget Billing	8	Retail Discounts	13	Home Energy Savings	1
Due Date Extensions	1	SARP	27	LIHEAP	1
Free Energy Savings Products	12	60636	79	Payment Arrangements	1
Give A Ray	10	Budget Billing	3	Peak Time Savings	1
Home Energy Savings	12	Due Date Extensions	2	Retail Discounts	1
LIHEAP	11	Free Energy Savings Products	9	SARP	1
Multi Family Energy Savings	4	Give A Ray	7		
Payment Arrangements	11	Home Energy Savings	10		
Peak Time Savings	11	LIHEAP	9		
Retail Discounts	10	Multi Family Energy Savings	1		
SARP	24	Payment Arrangements	8		

- *Metric 2:* In Q1, all (100%) recipients of the Home Energy Savings' Income Eligible Home Energy Assessment (IE HEA) and 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*), 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.

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Table 1

Product Distribution Income Eligible Kits Participation Counts Q1 2023							
Service Zip Code	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts	Service Zip Code, cont.	Customer Counts
60004	38	60137	1	60435	10	60548	2
60005	40	60139	5	60436	2	60555	1
60007	23	60145	1	60438	105	60559	1
60008	14	60146	1	60439	9	60560	3
60010	32	60148	6	60440	3	60561	5
60013	1	60151	1	60441	2	60563	1
60014	6	60152	2	60443	91	60564	2
60015	2	60153	90	60445	43	60586	1
60016	94	60154	31	60446	1	60601	8
60018	40	60155	29	60447	2	60603	1
60022	1	60156	2	60448	1	60605	35
60025	25	60160	36	60450	4	60606	2
60026	6	60162	17	60452	46	60607	68
60030	4	60163	11	60453	105	60608	250
60031	17	60164	33	60455	35	60609	261
60033	2	60165	5	60456	13	60610	77
60035	4	60169	35	60457	31	60611	22
60044	1	60171	16	60458	65	60612	212
60045	2	60172	7	60459	62	60613	51
60046	6	60173	13	60461	7	60614	29
60048	1	60176	22	60462	56	60615	193
60050	2	60177	4	60463	6	60616	202
60053	30	60181	4	60464	5	60617	271
60056	70	60184	1	60465	40	60618	71
60060	10	60187	3	60466	100	60619	366
60061	5	60188	4	60467	16	60620	374
60062	14	60189	3	60469	12	60621	202
60064	10	60191	2	60471	76	60622	50
60067	15	60192	10	60472	32	60623	385
60068	19	60193	23	60473	91	60624	261
60070	15	60194	28	60475	22	60625	77
60073	5	60195	4	60476	7	60626	113
60074	46	60201	66	60477	47	60628	298
60076	56	60202	49	60478	92	60629	238
60077	73	60203	3	60480	4	60630	42
60083	3	60204	1	60481	4	60631	15
60085	45	60301	3	60482	40	60632	218
60087	15	60302	42	60484	5	60633	38
60089	28	60304	18	60487	27	60634	94
60090	72	60305	2	60501	17	60636	145
60091	13	60402	142	60503	1	60637	323
60096	6	60403	1	60504	10	60638	86
60097	4	60406	116	60505	9	60639	160
60098	7	60408	1	60506	13	60640	74
60099	20	60409	202	60513	30	60641	75
60101	2	60411	255	60515	1	60642	23
60102	3	60415	46	60516	3	60643	122
60103	8	60417	2	60517	2	60644	301
60104	62	60418	22	60518	2	60645	91
60107	49	60419	140	60521	1	60646	17
60108	2	60420	1	60525	35	60647	91
60110	2	60422	17	60526	14	60649	395
60112	1	60423	3	60527	1	60651	277
60115	13	60425	28	60530	1	60652	82
60120	26	60426	123	60532	6	60653	271
60123	9	60428	59	60534	21	60654	7
60124	1	60429	83	60538	3	60655	16
60126	1	60430	54	60543	1	60656	31
60130	44	60431	1	60544	1	60657	31
60131	25	60432	3	60545	1	60658	1
60133	32	60433	3	60546	13	60659	70

Table 2

Income Eligible - Home Energy Assessments Participation Counts Q1 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	1	60077	3	60175	2	60440	2	60561	4	60651	4
60004	3	60084	1	60181	2	60441	1	60605	2	60652	6
60007	1	60085	5	60185	1	60442	1	60608	2	60653	7
60010	1	60087	1	60188	2	60443	1	60609	3	60654	1
60012	1	60091	1	60189	1	60445	1	60612	1	60655	2
60014	1	60098	1	60192	1	60446	2	60615	3	60657	1
60016	2	60099	2	60193	3	60452	1	60616	1	60659	1
60018	2	60102	2	60194	2	60453	2	60617	16	60707	2
60020	1	60103	1	60201	1	60461	2	60618	1	60712	2
60025	2	60104	1	60202	1	60462	3	60619	24	60803	1
60030	4	60107	2	60401	1	60463	2	60620	23	60804	1
60031	1	60115	1	60402	1	60466	4	60621	3	60827	3
60033	2	60118	1	60403	1	60471	1	60623	4	60954	1
60035	1	60120	1	60408	2	60477	1	60624	1	60964	1
60041	3	60123	1	60409	3	60478	1	60625	2	61008	1
60047	1	60126	1	60411	6	60481	1	60628	22	61013	1
60048	1	60130	1	60415	1	60487	1	60629	6	61032	1
60050	1	60133	2	60416	2	60490	1	60632	1	61065	1
60051	1	60137	1	60419	2	60501	1	60633	2	61073	1
60053	1	60140	1	60422	1	60504	1	60634	3	61081	1
60056	1	60142	1	60423	2	60505	1	60636	3	61101	1
60060	1	60143	1	60425	1	60506	1	60637	5	61102	2
60061	1	60148	2	60426	2	60513	1	60638	2	61103	3
60062	5	60152	1	60429	1	60515	3	60639	2	61104	2
60064	1	60153	1	60430	3	60516	3	60640	1	61108	3
60067	2	60154	1	60431	1	60523	3	60643	6	61111	1
60068	1	60155	2	60432	2	60525	1	60644	2	61252	1
60070	1	60160	1	60433	2	60543	1	60645	5	61270	1
60073	1	60169	1	60438	3	60555	1	60646	1		
60076	4	60173	1	60439	1	60560	1	60649	4		

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- **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 and relaunched in March 2023. Lastly, and as described in the "*Pilot Connecting Customers with Payment Trouble...*" section, energy efficiency coordinated with 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.

- **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 is a good example of a campaign 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.

Q1 Updates

- 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

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from Twitter to Instagram concurrently in English and Spanish. The following table (Table 3) includes the list of top 20 zip codes to receive disconnect notices and services and the year-to-date participation in the various income eligible EE programs.

Table 3

Top 20 disconnect zip codes	Community/ City name	# of Single Family Income Eligible Retrofit Participants (YTD)	Single Family Income Eligible Retrofit Energy Savings (MWh YTD)	Multi-Family Income Eligible & Public Housing Energy Savings (MWh YTD)	Other Income Eligible EE Program Energy Savings (MWh YTD)*	Total Income Eligible Energy Savings (MWh YTD)
60411	Chicago Heights	11	25	0	191	216
60419	Dolton	15	21	0	104	126
60426	Harvey	24	42	0	86	128
60429	Hazel Crest	17	31	0	58	88
60471	Richton Park	7	21	0	42	64
60472	Robbins	2	4	0	24	28
60617	Chicago	38	56	63	228	347
60619	Chicago	36	57	45	270	372
60620	Chicago	57	100	11	330	441
60621	Chicago	6	7	9	138	155
60623	Chicago	8	11	2	264	276
60624	Chicago	5	4	1	171	175
60628	Chicago	48	93	24	246	363
60636	Chicago	15	20	0	118	137
60637	Chicago	3	2	17	205	224
60644	Chicago	11	12	29	197	238
60649	Chicago	10	22	46	233	301
60651	Chicago	15	17	2	202	221
60827	Riverdale	8	9	2	102	113
61101	Rockford	0	0	3	14	17

* Appliance Rebate Program savings are not included in the Q1 numbers, but will be in the Q2 report

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.

Q1 Updates

- During Q1, ComEd Energy Efficiency (EE) and Financial Assistance (FA) launched a new program offering, Catch Up & Save, designed to provide additional assistance to customers experiencing payment trouble. This new 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. During this first quarter, 142 customers were enrolled in SARP and received an energy savings kit which was mailed directly to their home. 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. ComEd is also working with Guidehouse to identify whether or not other utilities offer similar EE – FA integrated programs that ComEd may consider for an additional pilot. Interviews with other utilities, including DTE and Duke Energy, are currently underway. Research is anticipated to be completed in Q2.

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.

Q1 Updates

- In Q1 2023, the study team completed the IE bill impacts analysis scope of work and produced a draft final report. The study team was

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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 in discussions with technology providers such as Oracle to consider ways program participants could be screened for bill impacts on an ongoing basis.

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.

Q1 Updates

- In Q1, the Low Income EE Accountability Committee (LIEEAC) held ONE (1) joint IQ/SAG EE Committee meeting on March 22nd. 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.

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

Q1 Updates

- **Participation – buildings by zip code and apartment units**
In 2023, the Multi-Family Energy Savings program served verified income eligible (IE) and public housing (PH) multi-family properties in 167 unique zip codes throughout ComEd’s service territory. In total,

253 IE and PH buildings participated with 7,291 tenant units receiving free products such as smart thermostats, LEDs, low flow showerheads and faucet aerators. Following table (*Table 4*) 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 Q1 of 2023.
- **# of Apartment Units:** Each project with a recorded project type of “Direct Install” represents a unit served.

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Table 4

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	1	75
60008	7	178	0	0
60010	0	0	0	0
60016	2	92	0	0
60025	0	0	0	0
60026	1	286	0	0
60031	0	0	0	0
60035	0	0	0	0
60037	0	0	0	0
60050	0	0	0	0
60053	0	0	0	0
60056	0	0	0	0
60062	0	0	0	0
60064	2	23	0	0
60067	0	0	0	0
60074	0	0	0	0
60076	1	3	0	0
60077	1	13	0	0
60085	2	26	0	0
60087	0	0	0	0
60088	1	20	0	0
60090	0	0	0	0
60091	0	0	0	0
60096	0	0	0	0
60099	0	0	0	0
60104	0	0	0	0
60106	1	4	0	0
60110	1	373	0	0
60115	0	0	0	0
60123	2	82	0	0
60126	0	0	0	0
60130	1	12	0	0
60131	0	0	0	0
60133	0	0	0	0
60148	0	0	0	0
60152	2	25	0	0
60153	0	0	0	0
60155	0	0	0	0
60160	1	20	0	0
60164	0	0	0	0
60169	0	0	0	0
60171	0	0	0	0

Table 4, continued

60173	0	0	0	0
60181	0	0	0	0
60187	0	0	0	0
60188	0	0	0	0
60193	0	0	0	0
60194	0	0	0	0
60201	0	0	0	0
60202	4	48	0	0
60301	2	101	0	0
60302	3	76	0	0
60304	0	0	0	0
60305	0	0	0	0
60402	7	159	0	0
60403	1	3	0	0
60406	0	0	0	0
60409	1	71	0	0
60411	0	0	0	0
60415	0	0	0	0
60419	0	0	0	0
60424	0	0	0	0
60426	0	0	0	0
60429	0	0	0	0
60432	0	0	0	0
60433	1	146	0	0
60435	2	8	0	0
60436	0	0	0	0
60438	2	26	0	0
60441	0	0	0	0
60444	0	0	0	0
60446	0	0	0	0
60450	0	0	0	0
60453	0	0	0	0
60458	0	0	0	0
60460	0	0	0	0
60466	1	20	1	106
60471	0	0	0	0
60475	1	677	0	0
60477	0	0	0	0
60480	0	0	0	0
60501	0	0	0	0
60505	1	97	0	0
60506	0	0	0	0
60517	0	0	0	0
60525	1	20	0	0
60527	0	0	0	0
60532	1	20	0	0
60542	0	0	0	0
60546	0	0	0	0
60559	1	558	0	0
60601	0	0	0	0
60604	0	0	0	0
60605	0	0	0	0
60606	0	0	0	0
60607	1	3	0	0
60608	5	46	0	0
60609	1	5	0	0
60610	1	34	0	0
60611	0	0	0	0
60612	0	0	0	0

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Table 4, continued

60613	1	13	0	0
60614	0	0	0	0
60615	6	131	0	0
60616	3	52	0	0
60617	0	0	0	0
60618	2	48	0	0
60619	12	202	0	0
60620	9	193	0	0
60621	1	21	0	0
60622	0	0	0	0
60623	11	104	0	0
60624	2	59	0	0
60625	5	94	0	0
60626	11	272	0	0
60628	5	121	0	0
60629	9	149	0	0
60630	2	44	0	0
60631	0	0	0	0
60632	0	0	0	0
60634	0	0	0	0
60636	0	0	0	0
60637	11	324	0	0
60638	0	0	0	0
60639	2	37	0	0
60640	7	210	0	0
60641	0	0	0	0
60642	0	0	0	0
60643	0	0	0	0
60644	4	99	0	0
60645	2	36	0	0
60647	1	6	0	0
60649	26	453	0	0
60651	2	78	0	0
60652	0	0	0	0
60653	3	58	1	81
60654	0	0	0	0
60657	0	0	0	0
60659	3	54	0	0
60660	5	216	0	0
60661	0	0	0	0
60690	0	0	0	0
60707	1	20	0	0
60714	0	0	0	0
60804	0	0	0	0
60827	2	64	0	0
60901	0	0	0	0
60950	2	26	0	0
61008	2	15	0	0
61016	0	0	0	0
61028	0	0	0	0
61032	5	69	0	0
61041	0	0	0	0
61081	1	10	0	0
61087	0	0	0	0
61101	2	40	0	0
61102	0	0	0	0
61103	4	52	1	151
61104	1	4	0	0
61107	3	36	0	0
61108	0	0	0	0
61109	2	9	0	0
61111	3	36	0	0
61114	13	136	0	0
61115	1	12	0	0
61319	0	0	0	0
61764	0	0	0	0

- **Spending – Incentives, non-incentives and 1st year savings by MWh and Therms**
 In 2023, the Multi-Family Energy Savings program allocated \$1,479,304.89 in ComEd incentives for efficiency upgrades within income eligible and public housing buildings and achieved 1,393 net MWhs and 12,331 net therms (to be converted to MWhs). Below (Table 5) is a breakout of savings and spend by program component (income eligible, public housing).
 - The incentive and savings data is specific to ComEd and not the full program (the gas incentives and savings have been removed.)

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Table 5

	Incentive Spend	Non-Incentive Spend*	Net MWh Savings Achieved	Net Therms Achieved
Income Eligible	\$1,462,234.89	\$1,117,611.37	1,373	12,331
Public Housing	\$17,070.00	\$53,277.76	20	0

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)

Q1 Updates

- ComEd utilized 13 diverse prime contractors (Tier 1) during Q1, along with 71 diverse sub-contractors and service providers (Tier 2) during the same period. The following tables (*Table 6 and Table 7*) show a breakdown of vendor diversity and spend, by category.

Table 6

Tier 1		
Diverse Category	Spend (\$)	# of Vendors
MBE	\$4,609,540.14	3
WBE	\$4,238,712.99	10
Total	\$8,848,253.13	13

Table 7

Tier 2		
Diverse Category	Spend (\$)	# of Vendors
MBE	\$3,725,462.92	32
VOSB	\$1,929,780.33	5
WBE	\$3,988,965.54	34
Total	\$9,644,208.79	71

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
 - **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

Stipulations

- **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

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)

Q1 Updates

- The following tables (*Table 8* and *Table 9*) 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
 - Asbestos
 - Mold
 - Standing Water
 - Mechanical Issues
 - Electrical Issues
 - Emergency Boiler

Table 8

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

*Note: Deferrals do not include IHWAP project deferrals.

Table 9

Health and Safety Related Spend YTD*	
Home Energy Savings	\$789,502
Multi-Family Energy Savings	\$480,926

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

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.

Q1 Updates

- In Q1 2023, having completed MDI research by the end of 2022 as well as the RFP to identify Walker-Miller as the ComEd MDI implementation contractor for Phase 1, ComEd made progress in standing up the implementation team. Efforts are ongoing in drafting an MDI go-to-market strategy and other administrative elements.

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. 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

Appendix: Program Descriptions

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 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

Appendix: Program Descriptions

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

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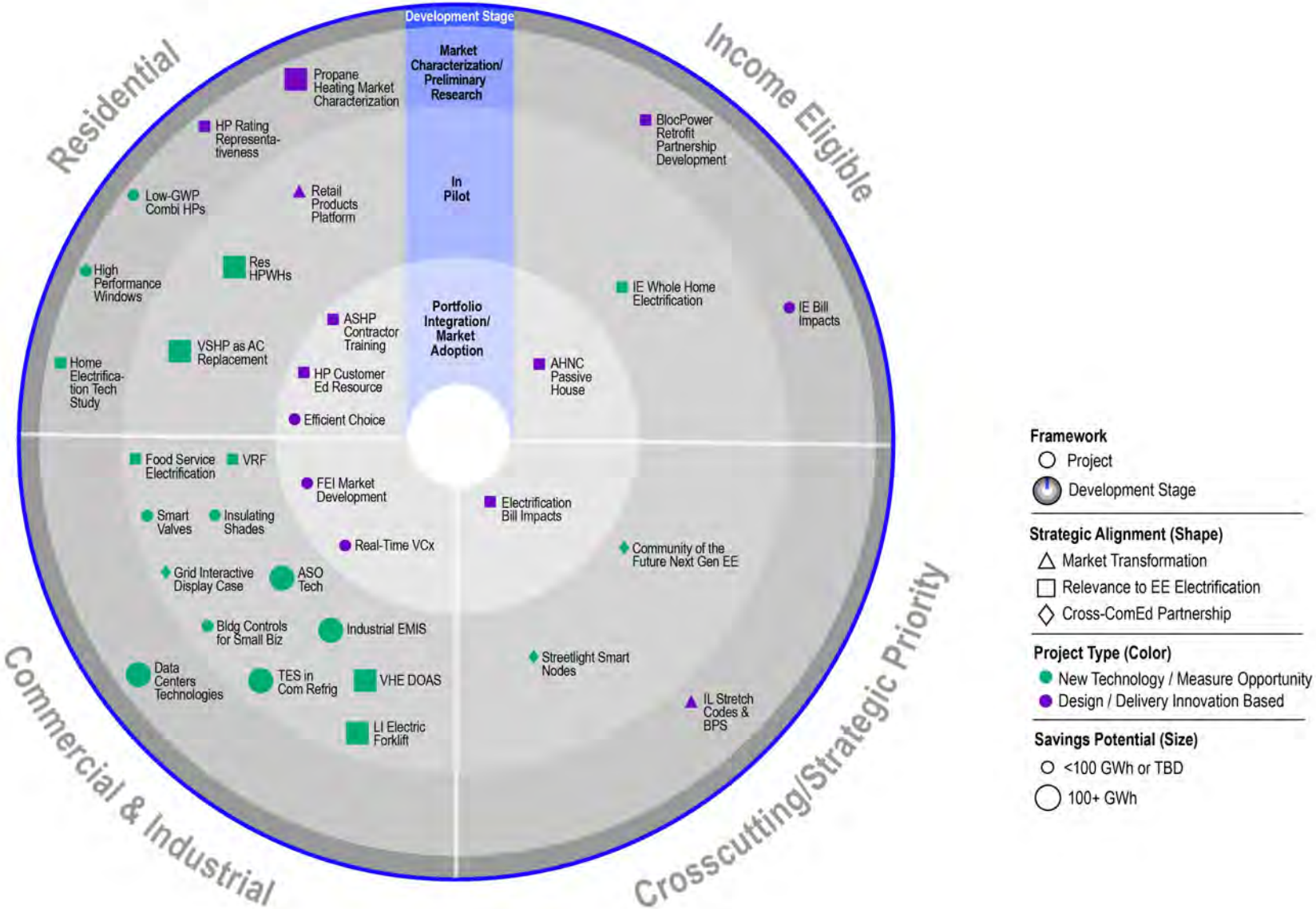
P.O. #	2046441, Release 1
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Cost Category	Total Budget	January	February	March	April	May	June	Year-to-Date Q1 and Q2	Remaining	Comments
Contract Release #1 (Facilitation) Budget										
Facilitation Labor, includes Initial Fixed Fee	\$458,417.13	\$6,419.24	\$14,724.05	\$23,411.45				\$44,554.74	\$413,862.39	
Unallocated	\$ 52,716.55									
2023 Release 1 - Total	\$511,133.68									
Contract Release #2 Grants & Stipends) Budget										
Leadership Team Stipends or Grants	\$ 68,250.00									
Committee Participation Stipends	\$ 57,000.00									
Education and Outreach Grants	\$ 417,947.32									
Release 2 Total	\$ 543,197.32									
Overall Total	\$ 1,054,331.00									

Cost Category	Total Budget	July	August	September	October	November	December	Year-to-Date	Remaining	Comments
Contract Release #1 (Facilitation) Budget										
Facilitation Labor, includes Initial Fixed Fee	\$458,417.13									
Unallocated	\$ 52,716.55									
Release 1 Total	\$511,133.68									
Contract Release #2 Grants & Stipends) Budget										
Leadership Team Stipends or Grants	\$ 68,250.00									
Committee Participation Stipends	\$ 57,000.00									
Education and Outreach Grants	\$ 417,947.32									
Release 2 Total	\$ 543,197.32									
Overall Total	\$ 1,054,331.00									

R&D Summary

ComEd Energy Efficiency Program R&D Portfolio Summary 2023 Q1



This visualization provides an overview of the R&D Team's active research concepts during Q1 2023, organized by stage of research and relevant customer segment. Further information about each concept may be found in the following table.

R&D Portfolio Summary 2023 Q1

Project webpages are currently unavailable while the ComEd Customer Innovation website is being redesigned. The updated website and project overviews will go live in May 2023 at Innovate.ComEd.com.

Concept	Work Description	Partners	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	Income Eligible	2024 Q1	Three PHIUS-tier affordable multifamily projects are in the pipeline, but due to construction schedules their estimated completion dates have moved from 2023 Q4 to 2024 Q1.
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)	Residential	2023 Q2	At the start of 2022, the project team updated the SOW based on previously completed work and current needs. Recruitment for the Product Ownership program is complete; there are seven contractors recruited and two units are installed. Two trainings were held in Q1 and there is another planned in May. The project team is also developing new training materials.
Efficient Choice	Integration of new choice engine website into the residential portfolio of customer offerings.	Enervee	Residential	Ongoing	The Residential Channels team continues to support the Efficient Choice website and is working with Enervee to add new product categories and user features.
Electrification Bill Impacts Calculations	Analysis of and calculator creation for customer bill impacts related to electrification measures.	Center for Energy and Environment (CEE)	Cross Cutting	2023 Q4	The project team finalized the 2023 SOW and has been meeting with relevant program implementation contractors. They will be reviewing program calculators, making updates to rates and assumptions as needed, and developing a calculator specifically for multifamily installations.
Fan Energy Index (FEI) Market Development	Integration of savings algorithm to Illinois TRM and new savings opportunity for C&I offerings.	Slipstream	Commercial	2023 Q2	The project team is rescoping program integration tasks to include gathering market baseline data, information on the customer journey, and information on the distributor journey. The team will assess whether rescoped activities make sense with regards to timing and feasibility of integrating this technology into the Midstream program.
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	Residential	2023 Q2	The project team has developed draft content, including heat pump information for customers, contractor materials, and a customer savings calculator. To ensure this information becomes available to customers as soon as possible, the project team has pivoted to a phased launch. Phase 1 of the web resource (homepage, what are heat pumps, options for your home, and calculator) will launch in May. The full content launch (Phase 2, additional customer content, contractor resources) is expected to go live August 2023.
Real-Time Virtual Commissioning (VCx)	Optimization of energy usage through analysis of one-minute, real-time interval data	Power TakeOff	Commercial, Public Sector	2023 Q4	The project team completed installation of real-time monitoring equipment at customer sites and is continuing to engage participating customers to identify opportunities for energy savings. The project team wrote and delivered reports summarizing the results and recommendations for the real time monitoring and for testing of BERT devices, which enable plug loads to be addressed through building optimization strategies.
In Pilot					
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	Commercial	2024 Q2	A contract was finalized with Hank, a subsidiary of JLL, to provide the software solution for the pilot. Project stakeholders are meeting regularly to determine detailed building requirements and to develop strategy for performance monitoring and measurement/verification of energy savings.
Commercial Food Service Electrification (eCFS)	Promoting electrification opportunities within a high-potential commercial customer segment.	Frontier	Commercial	TBD	Scope of work was finalized and a kick off meeting is planned for May 2023.
Commercial Interior Insulating Shades	Testing energy savings and customer experience in real-world conditions.	Illinois Institute of Technology	Commercial	TBD	Field installation has completed. The customer is pursuing an expansion of the shades installations to additional floors of their building through the ComEd Custom Program.
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	Commercial	2023 Q4	A high efficiency electric HVAC technology installation at a church in the Bronzeville neighborhood is on track to be commissioned in May. The project team continues to create engagement in the Bronzeville and Rockford communities.
Grid Interactive Display Case	Testing energy savings and customer experience in real-world conditions.	National Renewable Energy Laboratory (NREL)	Commercial	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.

Income Eligible Whole Home Electrification	Testing energy savings, installation barriers and costs, and customer experience in real-world conditions.	Elevate, Slipstream	Income Eligible	2023 Q2	Between 2022 and Q1 of 2023, the project team has completed electrification retrofits at 34 single family residences, and has 25 single family and 40+ multifamily residences moving through the design and/or construction phase. The project team is scheduling assessments for the final 10 single family residences and has also completed NOx monitoring and solar assessments for a sample of participants.
Industrial Energy Management Information System (EMIS)	Testing energy savings and customer experience in real-world conditions.	Leidos, EPS Energie	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	Creating real-world case studies for use in future promotional efforts.	DNV	Industrial	2023 Q2	The pilot team has secured the first case-study customer, with installs expected in Q2. The recruitment of one additional site is ongoing.
Pressure Independent Control Valves Smart Retrofits	Testing energy savings and customer experience in real-world conditions.	Slipstream	Commercial	2023 Q3	Smart Valve controls have been installed at a single additional customer site. Energy monitoring is on-going.
Residential Heat Pump Water Heaters (240V)	Testing energy savings and customer experience in real-world conditions.	CLEARresult	Residential	2023 Q3	To date, 20 heat pump water heaters have been installed. 20 additional installations are expected in Q2. The project team has created participant surveys that will be deployed starting in early Q2.
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.	NEEA, Energy Solutions	Residential	2023 Q4	The implementation/administration of ComEd's RPP effort is transitioning from NEEA to Energy Solutions. A successful 2022 evaluation was completed.
Smart Controls for Small and Medium Commercial Buildings	Testing a two-tiered energy management system (EMS) offering for small business customers.	Resource Innovations	Commercial	2023 Q4	The project team onboarded the five selected service providers. The service providers selected the EMS product they plan to promote and started to identify customers to participate in the pilot.
Smart Nodes for Streetlights	Addition of technology to allow improved control of LED streetlights	ComEd Internal	Public	2023 Q3	Installation of smart nodes for streetlights has been completed for two communities. Analysis of energy savings generated through dimming and lumen maintenance will be performed.
Thermal Energy Storage and Advanced Controls for Commercial Refrigeration	Testing novel advanced controls for large refrigeration systems in real-world conditions.	Slipstream	Commercial	2023 Q4	Four sites have been recruited for participation. Installation and M&V is underway.
Variable Refrigerant Flow HVAC	Testing energy savings and customer experience in real-world conditions.	Slipstream	Commercial	2023 Q4	Monitoring for installed VRF systems concluded at the end of March. The team is now working on drafting a TRM workpaper, two case studies, and a memo with feedback from 1-2 members of the installation team per site, outreach strategy recommendations, and results from analysis of the monitoring data.
Variable Speed Heat Pump (VSHP) as AC Replacement	Testing energy savings and customer experience in real-world conditions.	Center for Energy and Environment (CEE)	Residential	2023 Q3	The project team installed all monitoring equipment and is beginning to see preliminary results. There will be a participant survey coming soon. Recently, the team started developing some guidance for thermostats installed to control dual fuel heat pumps.
Very High Efficiency Dedicated Outdoor Air System	Testing energy savings and customer experience in real-world conditions.	Institute for Market Transformation (IMT), Slipstream, Ventacity	Cross Cutting	2024 Q2	System monitoring is ongoing in the first customer install site. Three additional site installs are expected to begin in either Q2 or Q3.

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	Residential	2025 Q4	This DOE-funded study led by LBNL recently kicked off. ComEd will participate in interviews and initial project discussions in Q2.
BlocPower Retrofit Partnership Development	Development of mapping and promotional tools to provide better outreach for customer electrification programs.	BlocPower	Income Eligible	2023 Q2	The project team created an Integrated Building Report system that could serve as a customer-facing engagement and intake tool, as well as BlocMaps, which can be used to identify good candidates for building electrification. The team is working to identify next steps for this work by the end of Q2.
Heat Pump Rating Representativeness Initiative	Research partnership to improve standardized performance testing for heat pumps.	NEEP	Residential, Commercial	2023 Q3	Contracting for Phase 2 is underway. The project team will begin lab testing in Q2 and has provided helpful information for IL TRM development discussions related to converting HSPF to HSPF2.
High Performance Window Market Characterization	Market research to understand the potential for adoption of residential high performance windows	Resource Innovations, Nicor Gas	Residential	2023 Q2	The project team delivered the draft final report for ComEd and project stakeholders to review.
Home Builder and HVAC Contractor Home Electrification Technology Study	Interviews with HVAC contractors and home builders to better understand perceptions and barriers around electrification opportunities.	Rabin Research	Residential	2023 Q1	This project was completed and a presentation of findings was held.
Illinois Building Code Advancement	Development of Market Transformation approach to drive energy savings through advancement of energy codes and building performance standards	Slipstream, Midwest Energy Efficiency Alliance (MEEA), Nicor Gas	Cross Cutting	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	Income Eligible	2023 Q2	The team continues to work through comments on the final deliverables and consider next steps toward a potential pilot.
Liquid Cooling in Data Centers	Characterization of data centers market and assessment of barriers to adoption.	ERI	Commercial	2023 Q2	The project team is engaging with large data center customers to survey operations staff and gather opinions on liquid cooling. The team also aims to recruit a case study site.
Propane Heating Market Characterization	Market characterization of ComEd's residential propane heating customers.	Slipstream	Residential, Income Eligible	2023 Q2	The project team completed all research tasks and developed a draft final report.