

# ComEd<sup>®</sup> Energy Efficiency Program

## Plan Year 9 First Quarter Report



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Data presented in this document is based on preliminary results and is subject to revision and evaluation adjustments. ComEd Energy Efficiency is funded by ComEd customers in compliance with Illinois Public Act 95-0481.

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Customers have saved  
**\$2.1 billion**  
on their electric bills



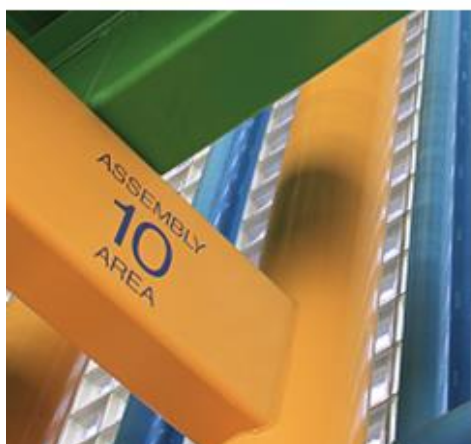
**92.5 million**  
efficient bulbs sold



Enough MWh to power  
**2.1 million**  
homes for one year

**27.1 billion**  
pounds of CO<sub>2</sub> reduced

**19.5 million**  
net MWh saved



More than  
**\$515 million**  
in incentives provided



Based on lifetime MWh savings through PY9 Q1





## Quarterly Program Highlights

### EEPS Business Programs

- EEPS business programs achieved 7% of their combined PY9 forecast of 451,433 MWh.
- Over 200 SIFYB projects were completed in Q1.
- The Incentives program did not accept applications prior to program launch, as opposed to previous years, and reduced incentives for certain products to help extend the program in PY9. This led to a slower start-up of paid projects than forecasted, but the program is expected to achieve year-end goals. In fact, overall more applications have been received and MWh savings reserved than in any previous program year.
- The BILD program began requiring contractors to provide end-user information to prevent bulk purchases which may be resold outside of the ComEd service territory, but this resulted in poor sales volume in Q1. This requirement will be removed in Q2 with the program continuing its right to inspect installations and 50% incentive co-pay requirement. It is expected that this adjustment as well as the introduction of new measures will drive participation and achieving the PY9 goal.

### EEPS Residential Programs

- EEPS residential programs achieved 23% of their combined PY9 forecast of 65,361 MWh.
- Customers received over 20,500 rebates, recycled over 13,500 appliances, and received over 5,500 assessments in Q1.
- The Heating & Cooling & Weatherization program increased the number of qualifying products for smart thermostat rebates.

### IPA Programs

- IPA programs achieved 15% of their combined PY9 forecast of 847,730 MWh.
- The Small Business Energy Savings Program continues to achieve comprehensive savings and a diversified measure mix.
- The Lighting Discounts Program sold approximately 1.8 million discounted ENERGY STAR® certified bulbs.

## Ex-Ante Results

### EEPS Ex-Ante Results

EEPS Program	Net MWh Actual	Net MWh Goal	Net MWh Forecast	Percent of Goal	Percent of Forecast	Program Costs YTD (\$1,000)	Rate Filing Screen (\$1,000)	Percent of Annual Spend
Incentives Total (includes large C&I pilot)	<b>14,055</b>	<b>195,831</b>	<b>184,772</b>	<b>7%</b>	<b>8%</b>	<b>\$ 4,117</b>	<b>\$ 32,900</b>	<b>13%</b>
Standard	12,151		139,520		9%			
Custom	1,904		29,089		7%			
Data Center	0		16,164		0%			
Optimization Total	<b>1,430</b>	<b>123,170</b>	<b>62,276</b>	<b>1%</b>	<b>2%</b>	<b>\$ 2,516</b>	<b>\$ 16,500</b>	<b>15%</b>
Retro-Commissioning	466		24,083		2%	\$ 1,450	\$ 7,500	19%
AirCare Plus (>100 kW)	698		5,588		12%	\$ 161	\$ -	N/A
Industrial Systems	266		30,255		1%	\$ 609	\$ 9,000	7%
Operational Savings	0		2,351		N/A	\$ 296	\$ -	N/A
Strategic Energy Management Pilot	0		2,500		0%	\$ 49	\$ -	N/A
BILD/Midstream Incentives	9,921	97,831	157,687	10%	6%	\$ 614	\$ 8,056	8%
New Construction	4,865	16,535	39,000	29%	12%	\$ 1,702	\$ 10,000	17%
Multi-Family Common Area	130	4,000	5,198	3%	2%	\$ 13	\$ 1,000	1%
C&I General						\$ 421	\$ -	
<b>C&amp;I Subtotal</b>	<b>30,400</b>	<b>437,367</b>	<b>451,433</b>	<b>7%</b>	<b>7%</b>	<b>\$ 9,431</b>	<b>\$ 68,456</b>	<b>14%</b>
Fridge & Freezer Recycling	6,720	29,450	19,322	23%	35%	\$ 2,257	\$ 8,701	26%
Appliance Rebates	2,652	9,103	18,885	29%	14%	\$ 2,074	\$ 6,686	31%
Home Energy Assessment	2,900	7,590	10,669	38%	27%	\$ 1,266	\$ 5,745	22%
Heating & Cooling	2,103	7,407	8,000	28%	26%	\$ 1,303	\$ 9,638	14%
Weatherization	125	0	500	N/A	25%	\$ 164	\$ -	N/A
Multi-Family	674	4,838	4,027	14%	17%	\$ 450	\$ 1,925	23%
Elementary Energy Education	0	567	3,708	0%	0%	\$ -	\$ 233	0%
New Construction	102	15	250	681%	41%	\$ 63	\$ 265	24%
Direct to Consumer Kit		4,930	0				\$ -	
Residential General						\$ 1,075	\$ -	
<b>Residential Subtotal</b>	<b>15,276</b>	<b>63,900</b>	<b>65,361</b>	<b>24%</b>	<b>23%</b>	<b>\$ 8,652</b>	<b>\$ 33,193</b>	<b>26%</b>
R&D/Emerging Tech	<b>101</b>	<b>0</b>	<b>0</b>			\$ 324	\$ 3,587	9%
Lighting Carryover	<b>0</b>	<b>16,102</b>	<b>45,150</b>	<b>0%</b>	<b>0%</b>			
<b>EEPS Program Total</b>	<b>45,778</b>	<b>517,369</b>	<b>561,944</b>	<b>9%</b>	<b>8%</b>	<b>\$ 18,407</b>	<b>\$ 105,235</b>	<b>17%</b>
<b>IPA Program Total</b>	<b>127,196</b>	<b>883,527</b>	<b>847,730</b>	<b>14%</b>	<b>15%</b>	<b>\$ 10,697</b>	<b>\$ 134,863</b>	<b>8%</b>
<b>EEPS and IPA Program Total</b>	<b>172,973</b>	<b>1,400,896</b>	<b>1,409,674</b>	<b>12%</b>	<b>12%</b>	<b>\$ 29,105</b>	<b>\$ 240,098</b>	<b>12%</b>

## Ex-Ante Results

### IPA Ex-Ante Results

IPA Program	Net MWh Actual	Net MWh Goal	Net MWh Forecast	Percent of Goal	Percent of Forecast	Program Costs YTD (\$1,000)	Rate Filing Screen (\$1,000)	Percent of Annual Spend
Lighting Discounts	33,738	217,565	218,260	16%	15%	\$ 5,281	\$ 37,123	14%
Home Energy Report	81,167	351,498	290,000	23%	28%	\$ 2,134	\$ 13,856	15%
Small Business Energy Savings	7,117	167,000	175,965	4%	4%	\$ 2,316	\$ 45,891	5%
LED Streetlighting	0	10,949	10,945	0%	0%	\$ 165	\$ 8,208	2%
Lighting Carryover	0	0	33,000					
<b>IPA ComEd Subtotal</b>	<b>122,022</b>	<b>747,012</b>	<b>728,170</b>	<b>16%</b>	<b>17%</b>	<b>\$ 9,896</b>	<b>\$ 105,078</b>	<b>9%</b>
Accelerate Group - CUB Energy Saver	339	17,910	17,910	2%	2%	\$ -	\$ 775	0%
Elevate Energy - Chicago MF Retrofit	346	1,828	1,683	19%	21%	\$ 112	\$ 577	19%
Shelton Solutions - Energy Stewards	0	850	0	0%	N/A	\$ -	\$ 139	0%
National Threatre for Children - Kits	4	1,220	1,229	0.3%	0.3%	\$ 3	\$ 625	0.5%
CLEAResult - CFL Distribution	2,562	14,721	12,713	17%	20%	\$ -	\$ 1,330	0%
ERC - Low-Income Kits	0	4,103	3,996	0%	0%	\$ -	\$ 1,439	0%
ERC - Low-Income Multi-Family	0	6,520	6,518	0%	0%	\$ -	\$ 2,168	0%
CLEAResult - School Energy Savings	0	4,310	3,850	0%	0%	\$ -	\$ 1,072	0%
Matrix - Private Schools	532	5,545	7,437	10%	7%	\$ 43	\$ 989	4%
Matrix - DBVFC	0	5,517	6,864	0%	0%	\$ -	\$ 1,241	0%
CLEAResult - LLLC	0	17,216	13,457	0%	0%	\$ -	\$ 5,101	0%
Elevate Energy - Assisted & Sr. Housing	0	1,188	1,188	0%	0%	\$ -	\$ 626	0%
Franklin - Rural Small Business EE Kits	0	1,234	1,234	0%	0%	\$ -	\$ 583	0%
GDS Associates - Agricultural EE	0	1,220	1,299	0%	0%	\$ -	\$ 367	0%
GDS Associates - Lit Signage	0	14,624	14,453	0%	0%	\$ -	\$ 3,700	0%
MEEA - STEP Efficient Products	0	3,343	2,145	0%	0%	\$ -	\$ 778	0%
SEDAC - Building Optimization	0	11,056	11,801	0%	0%	\$ -	\$ 2,500	0%
Power TakeOff - MBCx	0	2,709	1,860	0%	0%	\$ -	\$ 1,554	0%
CLEAResult - AirCare Plus (<100 kW)	1,383	10,962	8,063	13%	17%	\$ 641	\$ 3,146	20%
Weidt Group - New Construction SBO	8	4,213	1,860	0.2%	0.4%	\$ 2	\$ 1,075	0.2%
Sodexo - DBCFV	0	5,096	0	0%	N/A	\$ -	\$ -	N/A
One Change	0	1,130	0	0%	N/A	\$ -	\$ -	N/A
<b>IPA Third Party Subtotal</b>	<b>5,174</b>	<b>136,515</b>	<b>119,560</b>	<b>4%</b>	<b>4%</b>	<b>\$ 801</b>	<b>\$ 29,785</b>	<b>3%</b>
<b>IPA Program Total</b>	<b>127,196</b>	<b>883,527</b>	<b>847,730</b>	<b>14%</b>	<b>15%</b>	<b>\$ 10,697</b>	<b>\$ 134,863</b>	<b>8%</b>
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## EEPS Programs – Business

### Standard

*Overview: The Standard element of the C&I Incentives Program provides monetary incentives to customers on a “Standard” per-unit or per-fixture basis. Offered measures include LEDs, T-8 and T-5 lighting and controls, building automation systems, air- and water-cooled chillers and variable speed drives, as well as equipment with niche or targeted market applications, such as laboratory, farm and commercial food service equipment, and grocery refrigeration measures.*

- **12,151 MWh savings achieved (9% of forecast) based on 123 projects**
- Due to PY8 challenges with high demand for program incentives and waitlists, programmatic changes were incorporated for PY9 to extend the program year, e.g., lowered incentives for certain measures and holding off on accepting applications until June 1<sup>st</sup>, as opposed to March in PY7. This has led to a slower start-up of paid projects than forecasted.
- On a positive note, the program has seen a large inflow of pre-applications at the beginning of the year that will lead to a large number of final applications in Q2. The program overall has received more applications and reserved MWh than in any previous program year.
- Outreach professionals have been promoting the comprehensive savings program, and the marketplace response has been positive thus far.

### Custom

*Overview: The Custom element of the C&I Incentives Program identifies and implements site-specific and unique cost-effective energy efficiency opportunities that are not available via the Standard element. Customized incentives based on calculated savings for specific customer projects are offered. Measures include process efficiency improvements, system upgrades, and those measures not covered by the Standard element of the program.*

### Custom (continued)

- **1,904 MWh savings achieved (7% of forecast) based on 4 projects**
- The PY8 challenges and programmatic changes for PY9 described above for the Standard element have similarly affected the Custom element.

### Data Centers

*Overview: The Data Center element of the C&I Incentives Program follows the basic tenets of the Custom Program such that all energy-saving measures that can be measured and verified via industry accepted measurement and verification techniques are eligible for incentives. Incentives are based on actual energy saved from pre-project conditions to post-project conditions. The targeted segment for this program includes data centers as a business, data centers that support businesses and subsequent systems that support those data centers.*

- **0 MWh savings achieved (0% of forecast)**
- The baseline used for data center new construction and end of useful life projects is under review as the American Society of Heating, Refrigerating and Air-Conditioning Engineer is in its final approval stages of a new data center efficiency guideline. Once finalized, the program anticipates adopting the baseline to replace the currently used Pacific Gas & Electric document.
- The program remains very strong with substantial short and long-term pipelines.
- The program is working to better understand the project schedules of all existing projects in the pipeline. This includes the current critical IT loading of all new construction projects, an activity that has traditionally occurred later in the program year.
- Because the program maintained a high level of communication with customers during the close out of the previous program year, there was a very high response rate from customers on their current state of IT load, as well as

project status. This communication of existing projects has led to multiple new applications from repeat “super-user” customers, as well as a potential R&D emerging technology project.

- This type of rapport and trust with customers has helped maintain momentum with the short and long-term pipelines. Customers are comfortable with the program, and have a high degree of trust in the people who run it.
- The program has engaged multiple third parties and Trade Allies to expand the program’s reach. Distributors/vendors, energy auditors, MEP engineering firms, contractors, and professional societies all lend unique insight to the data center market at different points in a projects process. The program continues to have success engaging the various market players in an effort to remain educated about industry trends and maintaining awareness of potential projects.
- There currently are potential savings of over 32,000 MWh in the PY9 pipeline.

### Midstream Incentives / Business Instant Lighting Discounts (BILD) & Business Product Discounts (BPD)

*Overview: The BILD program provides instant discounts on qualifying LED screw-in products, LED exit signs, and reduced wattage T8 and T5 linear fluorescent lamps (LFLs). Discounts are provided through an open network of BILD distributors who have signed program agreements. The BPD program provides incentives for electronic industrial battery charges and high-efficiency transformers.*

- **9,921 MWh savings achieved (6% of forecast) based on 98,830 products sold**
  - 68,583 LEDs sold
  - 30,223 LFLs sold
  - 24 battery chargers sold
- The program is currently focused on keeping incentives available throughout PY9, despite



## EEPS Programs – Business

### Midstream Incentives / Business Instant Lighting Discounts (BILD) & Business Product Discounts (BPD) (continued)

- a 30% incentive budget reduction from PY8.
- The program is aiming to further prevent bulk purchases by contractors which may be resold outside of the ComEd service territory, or put into stock.
  - In an attempt to address this concern in Q1, all purchases by contractors were required to have end-user address and contact information; direct-to-customer purchases already required this information.
  - Contractors that purchase products from a distributor are typically unwilling or unable to share end-user contact information. Distributors have expressed a significant drop in sales to contractors because of this requirement.
  - ComEd added the right to inspect BILD customer installations in its PY9 Program Agreement; this tactic, in addition to requiring a customer co-pay, will deter stocking activity or other bulk purchases. With fraud prevention in check, and to encourage more sales to contractors, this customer information requirement was removed starting Q2.
- 1 monitoring-based commissioning (MBCx) project completed
- 3 RCx Building Tune-Up (buildings less than 150,000 square feet) projects completed
- 1 RCxpress (buildings between 150,000 and 400,000 square feet) project completed
- 0 RCx (buildings over 400,000 square feet) projects completed
- 0 Grocery RCx projects completed
- Emphasis is being placed on re-engaging past participants in RCx who are now once again eligible for the program.
- PY9 program changes include moving to a pay-per-performance model in the RCx Building Tune-Up program to allow customers and service providers more flexibility to seek deeper energy savings than the original design, and to limit costs when projects yield low savings.
- Incentives are now being offered to service providers for completing projects within an aggressive timeline and to customers for implementing additional measures once the savings target and minimum spending commitments have been met.
- The program is an Organizing Partner with the Department of Energy's Smart Building Analytics campaign, whose goal is to increase the use of monitoring and analytical tools in building performance. Several MBCx providers have joined the campaign, and MBCx program participants are eligible to apply for awards if they join.
- Outreach through a targeted outbound calling campaign and through segment outreach such as Commercial Real Estate continue to provide leads for new projects.

### Retro-Commissioning (RCx)

*Overview: The RCx Optimization Program provides detailed engineering analysis of building systems designed to identify energy-saving operational improvements with a bundled simple payback of 18 months or less. Incentives are provided to customers who commit to implementing agreed-upon energy-saving equipment scheduling, optimization of economizer operations, and adjustment of heating, ventilation, and air conditioning (HVAC) setpoints.*

- **466 MWh savings achieved (2% of forecast)**

### AirCare Plus (>100 kW)

*Overview: The AirCare Plus program is an enhanced HVAC maintenance service program designed to optimize the performance of all major energy-using components of packaged*

### AirCare Plus (>100 kW) (continued)

*HVAC Roof Top Units (RTUs) and split systems. The program integrates a package of energy saving hardware retrofits and mechanical adjustments into the standard commercial HVAC service and maintenance model to provide a cost-effective energy saving solution for 3 to 60 ton units. Savings from commercial participants with a peak demand of greater than 100 kW are attributed to the EEPS portfolio. Small commercial participants with a peak demand of 100 kW or less are attributed to IPA.*

- **698 MWh savings achieved (12% of forecast) based on 112 units**
- More than 100 HVAC RTUs of commercial participants with a peak demand of greater than 100 kW received tune-ups in Q1.
- Activity was challenged with the unpredictability of Chicago's climate. This summer has been much warmer than last year. With the warmer weather, the program has had to compete with the core business of HVAC contractors.
- The program primes customers with thermostats during the colder months and re-engage customers with an HVAC tune-up in the spring.
- HVAC tune-up incentive levels were increased at no cost to customers to boost participation rates.
- The program has completed several high profile tune-ups for large hospitals and manufacturing facilities, generating project referrals and customer recognition.
- Customer participation rates have grown as Trade Allies develop their business model.
- While customer participation rates were lower than anticipated, MWh savings per project were above target.

### Industrial Systems

*Overview: The Industrial Systems Optimization program performs studies of compressed air,*

*industrial refrigeration, and/or process cooling systems to locate energy efficiency opportunities. Cost of assessments is covered by the program if customer obligations are met, and financial incentives are offered for implementing measures recommended by the study.*

- **266 MWh savings achieved (1% of forecast) based on 2 projects**
- There are currently 16 customers involved in two or more study projects.
- The positive uptake of the program offering has created a healthy pipeline for PY9. There are 101 projects in the PY9 pipeline for potential savings of over 52,000 MWh.
- The program is beginning to build the PY10 pipeline. Forecasted costs for PY10 are being tracked in case proposed budget cuts are implemented. If so, there may be a waitlist imposed on accepting more PY10 projects once the expected budgets are near capacity.

### Strategic Energy Management (SEM)

*Overview: Strategic Energy Management provides tools, coaching and technical resources to support your 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 will help implement organizational structures, behavior changes, and systematic practices that can lead to reducing energy costs 5-25% for both electricity and natural gas.*

- **0 MWh savings achieved (0% of forecast)**
- A second cohort including 3 hospitals, 4 universities, and 2 industrial manufacturers kicked off in June.
- The cohort will have monthly meetings until December.

### C&I New Construction

*Overview: The New Construction Program provides technical assistance, support for the Leadership in Energy and Environmental Design (LEED) rating system, and incentives for efficient designs and measure implementation in order 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.*

- **4,865 MWh savings achieved (12% of forecast) based on 2,023,685 square feet in 11 buildings**
- The program launched a new program track called “Expedited Assistance” for projects later in design, offering streamlined energy analysis for faster turnaround and incentives at \$0.07 per kWh.
- The PY9 pipeline is currently strong with about 39,000 MWh expected to be captured in PY9.

### Multi-Family Common Area

*Overview: The Multi-Family Common Area Program provides free energy assessments and installation of energy-saving products within common area spaces in multi-family properties with a peak demand of 100 kW or less. Installed measures may include LEDS, HVAC optimization, and programmable thermostats.*

- **130 MWh savings achieved (2% of forecast)**
- Energy-saving products have been installed within 6 common area spaces.



## EEPS Programs – Residential

### Fridge and Freezer Recycling

*Overview: The Fridge and Freezer Recycling Program promotes the retirement and recycling of inefficient, working refrigerators and freezers, as well as room air conditioners, from households by offering \$50 and free pick up of the equipment.*

- **6,720 MWh savings achieved (35% of forecast) based on 13,901 pickups**
- ComEd has collected and responsibly recycled more than 300,000 refrigerators and freezers since the program began to offer this service to our customers in June 2008.
- All of these older and less efficient units continue to be permanently removed from further use on the electric grid, and are recycled in an environmentally responsible manner by Recleim, following the Environmental Protection Agency Responsible Appliance Disposal guidelines.
- Customer participation was steady and strong throughout Q1, with over 13,500 refrigerators and freezers collected. This performance provides a solid foundation for achieving the PY9 goal of 45,000 units, including room air conditioners.
- Overall customer satisfaction for the new implementation contractor, Recleim, averaged greater than 9.5 on a 10.0 point scale during Q1.
- A multi-channel marketing campaign that included bill inserts, billboards, digital ads, and radio spots was in market throughout Q1. This campaign, which will conclude at the end of September, continues to use the character Frank to encourage customers to “retire” their old, working refrigerator or freezer by having it recycled through ComEd.

### Appliance Rebates

*Overview: The Appliance Rebate Program provides rebates for qualifying ENERGY STAR® appliances sold through retail channels to ComEd residential customers. Eligible measures include select ENERGY STAR® certified clothes washers, electric clothes*



### Appliance Rebates (continued)

*dryers, refrigerators, freezers, air purifiers, pool pumps, water dispensers, room AC units, advanced power strips, ventilation fans, smart thermostats, and heat pump water heaters.*

- **2,652 MWh savings achieved (14% of forecast) based on 17,293 appliance rebates issued**
- The program launched a new measure in late August. A \$15 instant discount is now available on the purchase of a 7-plug advanced power strip exclusively at The Home Depot select locations.
- Another marketing awareness campaign that included radio, out of home (billboards, train and bus terminals), and digital ads was launched. The campaign will be highlighted during specific holidays such as Fourth of July, Labor Day, Columbus Day, and Black Friday.
- The new measures launched in June, such as the ventilation fan, water dispenser, and room air conditioners, are resulting in higher than forecasted participation.
- With the launch of the new program year, self-installed smart thermostats are now accounted for in the Appliance Rebate program.
- The program increased the number of qualifying products for smart thermostat rebates, resulting in eight total products that now qualify for a rebate.

### Joint Home Energy Assessment

*Overview: In partnership with Nicor Gas, North Shore Gas, and Peoples Gas, the Home Energy Assessment is a free walkthrough assessment with an energy advisor that determines the ways energy is used in the home. Customers receive personalized energy-efficiency recommendations, and the following energy-saving products are installed for free: ENERGY STAR® certified standard CFLs, specialty LEDs, advanced power strips, programmable*

*thermostats, WaterSense® certified showerheads, faucet aerators, and hot water pipe insulation. Ecobee3 smart thermostats and ENERGY STAR® certified standard LEDs are also available for purchase at a discount and include free installation.*

- **2,900 MWh savings achieved (27% of forecast) based on 2,679 assessments**
- Over 2,500 customers received assessments in Q1, with over 250 ecobee3 smart thermostats installed.
- Program savings per home are higher than forecasted due to the popularity of free specialty LEDs and advanced power strips.

### Heating & Cooling & Weatherization

*Overview: The Heating & Cooling & Weatherization Program promotes investment in long-term savings by providing rebates for the purchase and installation of high efficiency central air conditioners and air source heat pumps ( $\geq 14.5$  SEER and  $\geq 16$  SEER), ductless mini-split heat pumps ( $\geq 17$  SEER and  $\geq 9.5$  HSPF), ECM motors, heat pump water heaters, and smart thermostats. Weatherization measures, including air sealing, duct sealing, and attic and wall insulation, are also incented. The weatherization portion of the program is offered jointly with Nicor Gas, North Shore Gas and Peoples Gas.*

- **2,228 MWh savings achieved (26% of forecast) based on 3,506 products and projects**
- Over 3,100 customers received rebates for energy efficient heating and cooling equipment, including contractor-installed smart thermostats, in Q1.
- Over 380 customers received rebates for completing weatherization projects in Q1.
- Seven customers received rebates for ground source heat pump (geothermal) projects.
- To align with new ENERGY STAR® standards, the minimum efficiency (SEER) requirement required to receive a central air conditioner rebates increased from 14.5 SEER in PY8 to 15

## EEPS Programs – Residential

### Heating & Cooling & Weatherization (continued)

SEER in PY9.

- The rebates for air source heat pumps and ECM Motor retrofits increased in an effort to attract more participation for those measures.
- The program increased the number of qualifying products for smart thermostat rebates, resulting in eight total products that now qualify for a rebate.
- An HVAC Trade Ally focus group resulted in participation of over 10 contractors and distributors and the development of several toolkit pieces for Trade Ally use.
- The program redesigned and updated the Trade Ally list that is posted on the ComEd website, providing a more customer friendly experience for locating a ComEd Trade Ally.
- The program continued to build participation in the ComEd Residential Trade Ally Network, resulting in over 130 heating and cooling contractors enrolled to date.
- Total number of Approved Contractors remained static as the program continues to have territory wide coverage for weatherization rebates.

### Joint Multi-Family

*Overview: In partnership with Nicor Gas, North Shore Gas, and Peoples Gas, the Multi-Family Program provides multi-family properties with free energy assessments and installation of energy-saving products in tenant spaces. Installed measures include ENERGY STAR® standard CFLs and specialty LEDs, advanced power strips, faucet aerators, showerheads, programmable thermostats, and pipe insulation.*

- **674 MWh savings achieved (17% of forecast) based on 3,300 units**
- Energy-saving products were installed for free by trained technicians in more than 3,000 residential units in Q1.
- The main focus of this program continues to

be to improve energy efficiency within the residential tenant spaces of multi-family properties through the free installation of free energy-saving products.

- In addition to the variety of different wattage ENERGY STAR® certified CFLs that have been offered in prior years, ENERGY STAR® certified specialty LEDs and advanced power strips have been added for PY9.
- The program continued to perform through joint coordination efforts with the natural gas utilities in ComEd's service territory. This allowed for natural gas and water-saving products, such as faucets aerators and showerheads, to also be installed during the same site visit.

### Joint Residential New Construction

*Overview: In partnership with Nicor Gas, the Residential New Construction Program increases awareness and understanding among Home Energy Rating System (HERS) rating companies and home builders of the benefits of energy-efficient building practices with a focus on capturing energy efficiency opportunities available during the design and construction of new single-family homes. Incentives are provided to HERS-certified consultants that certify homes and builders who construct homes that are at least 20 percent more energy-efficient than what currently is required by the State of Illinois Energy Code.*

- **102 MWh savings achieved (41% of forecast) based on 169 homes**
- A total of 169 homes served jointly by ComEd and Nicor Gas have been completed and verified through Q1. These homes achieved an average savings of over 550 kWh.
- 27 of the qualified joint new homes in PY9 have met the highest program tier with modeled savings of at least 30% greater than the current Illinois energy code.
- The program held two additional 'Selling High Performance' Builder training sessions,

### Joint Residential New Construction (continued)

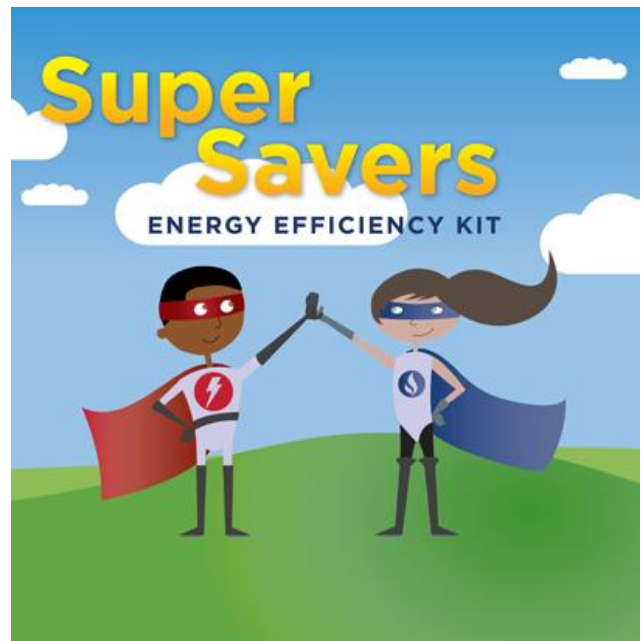
including one 2-Hour session at Pulte Homes and one 4-hour session resulting in the education of over 60 builders, raters and real estate professionals who are active in the ComEd service territory.

- The program continued to identify and recruit additional builders to help support increased participation and savings goals during PY9. A total of 54 builders and 9 raters are actively engaged in the program.

### Joint Elementary Energy Education (Super Savers)

*Overview: ComEd, Nicor Gas, North Shore Gas, and Peoples Gas have partnered to offer schools the opportunity to teach 5<sup>th</sup> grade students and their families how to use less energy at home. Students learn about valuable ways to save energy and money through in-class education. They also receive free take-home kits containing ENERGY STAR® CFLs and LEDs, faucet aerators, and other energy-saving products to install at home with their families.*

- **0 MWh savings achieved (0% of forecast)**
  - Program enrollment begins in fall, after schools are in-session.
- ComEd and partnering natural gas utilities have secured additional funding to expand the PY9 kit goal from approximately 11,500 to 25,750.
- New in PY9, two of the three ENERGY STAR® CFLs included in the kit have been replaced with ENERGY STAR® LEDs.
- The program continues to coordinate with the National Theatre for Children's (NTC) Third Party IPA program to avoid school overlap and maximize the number of classrooms that can participate in the two programs.





## IPA Programs – ComEd

### Small Business Energy Savings (SBES)

*Overview: The SBES program implements energy efficiency projects for customers under 100 kW peak demand. The program provides comprehensive energy savings solutions for customers including advanced lighting, refrigeration, HVAC, and compressed air.*

- **7,117 MWh savings achieved (4% of forecast)**
- Over 300 customers were provided with energy-saving products in Q1.
- The Q1 measure mix has been 50% non-lighting, and 50% lighting; previous program years have been over 90% lighting. The program is achieving continued comprehensive savings and diversified measure mix.
- The early rooftop unit replacement campaign has been very popular.
- Pre-applications were accepted on June 1st to avoid running out of incentives early. The current steady project flow indicates incentives will last the entire program year.
- Given the slower start in PY9, the program is launching a past customer campaign and increasing incentives for LEDs with controls to increase program participation.
- Trade Allies continue to provide positive feedback in monthly roundtable discussions

### Lighting Discounts

*Overview: The Lighting Discounts program provides instant in-store discounts to ComEd residential customers at participating retail stores on select ENERGY STAR® certified lighting: CFLs, LEDs, and LED trim kits.*

- **33,738 MWh savings achieved (15% of forecast) based on 1,845,196 units sold**
  - 580,930 CFL bulbs sold
  - 1,230,172 LED bulbs sold
  - 32,094 LED trim kits sold
- The Lighting Field Rep team conducted over 100 in-store lighting demonstrations and trained more



### Lighting Discounts (continued)

- than 3,500 store associates, including appliance retailers.
- The program continues to guide both manufacturers and retailers through the ENERGY STAR® 2.0 specification conversion as well as continues to evaluate the impact of this change to the program. Over 100 new LED models were introduced into the market and included in the program.
- Two major manufacturers, GE and Feit Electric, announced their plan to discontinue the manufacturing of CFLs. As a result, several retailers have started depleting store shelves of CFL products including Walmart and Target.

### 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 household, personalized energy efficiency advice, program promotions, and application of behavioral principles and social norm to drive adoption of energy efficient behaviors.*

- **81,167 MWh savings achieved (28% of forecast)**
- The program is reaching 1.5 million participants with a low opt-out rate and high customer satisfaction through customer inquiries.
- Emailed Home Energy Report recipients increased from 200,000 to 800,000. Additional recipients were added in three waves of 200,000 each over a three month period.
  - There was a large increase in email inquiries when email recipients expanded from 200,000 to 800,000. Each customer inquiry received a personal and prompt response from the program staff.

- The program is working internally with market research to conduct a qualitative (focus groups) and quantitative (online survey) study of the following products: paper Home Energy Reports, emailed Home Energy Reports, High-Usage Alerts, and Weekly Usage Reports. The research aims to gauge customer reactions and satisfaction.

### LED Street Lighting

*Overview: The program is to replace existing ComEd owned mercury vapor (MV) or high pressure sodium (HPS) fixtures with LED street lights. These street lights are installed and maintained by ComEd and the municipality pays a rental charge for the fixture and an energy charge. LED street lights provide energy efficient lighting which reduces operating costs and increases the life of street lighting.*

- **0 MWh savings achieved (0% of forecast)**
- The program has signed up more than 15 municipalities to install over 4,500 fixtures.
- Municipalities have been very excited about receiving the LED lights both because of the savings on their street light bill as well as the improvement in light quality. In several of the economically challenged communities that signed up, they also viewed the LED as a great way to show their constituents that infrastructure improvements were being made in their community.



## IPA Programs – Third Party

### The Accelerate Group – CUB Energy Saver

*Overview: The CUB Energy Saver Program is a free online service that motivates ComEd customers to save energy through a combination of practical, money-saving guidance, financial rewards, and partnerships with community groups and government agencies. Participants receive monthly emails regarding: 1) their energy usage based on billing data, 2) their reward points earned from savings, 3) recommendations for additional savings, and 4) reward redemption opportunities. It leverages behavioral and marketing best practices by encouraging opt-in web engagement and rewarding customers that save energy.*

- **339 MWh savings achieved (2% of forecast)**
- The program began PY9 with 9,870 previously linked accounts and the goal of adding 10,000 new accounts.

### Elevate Energy – Chicago Multi-Family Retrofit

*Overview: In partnership with the City of Chicago, the Chicago Multi-Family Retrofit Program provides electrically heated multi-family buildings with free energy assessments and comprehensive retrofits including direct installation of low cost measures, equipment tune-ups, and comprehensive lighting and building shell retrofits. Incentives are available for those who choose to implement more in-depth efficiency measures.*

- **346 MWh savings achieved (21% of forecast) based on 3,910 advanced power strips distributed**
- Re-engaging a participant from PY7 to complete additional measures allowed the program to exceed the savings goal for PY8 and shift those savings from PY9.
- Elevate and ComEd are in the process of reviewing program cost effectiveness which may result in a need to rebalance the program's measure mix and more heavily target comprehensive retrofit measures in lieu of distributed products.

## IPA Programs – Third Party

### Elevate Energy – Chicago Multi-Family Retrofit (continued)

- Marketing and outreach to keep the pipeline full of interested participants is an ongoing challenge. The program continues to set up outreach events and cold call potential interested parties.

### Shelton Solutions – Great Energy Stewards

*Overview: The Great Energy Stewards Program is a behavioral program which invites opt-in ComEd residential customers, via churches and the Community and Economic Development Association (CEDA), to participate in an energy use reduction competition against themselves. Participants are provided with a record of their energy use and energy-saving tips through email and postal mail.*

- **0 MWh savings achieved (0% of forecast)**
  - PY9 savings will not be reported until the PY9 evaluation has been completed to allow for accurate savings. The final PY7 evaluation report indicated that the program achieved minimal success in PY7, with statistically significant negative savings.
- There are currently 1,641 confirmed participants; all were carried over from previous program years.
- PY8 tips were provided to participants via email. Shelton worked to acquire email addresses from participants in PY8 to move away from direct mail.
- Community and Economic Development Association (CEDA), faith-based, and utility-sponsored events continue to provide great opportunities for increased participation. The program is planning events in September and October as a vehicle to add new program participants. The program plans to add 20 to 30 new participants from these two events.

### National Theatre for Children (NTC) – Gas and Electric Water Heater Kits Program

*Overview: The National Theatre for Children provides live in-school theatre performances focused on educating 6th through 8th grade students on conservation of natural resources, with the intent of having the students educate their parents and motivate them to opt-in to the program and order a free direct-mail kit.*

- **4 MWh savings achieved (0.3% of forecast) based on 20 kits**
- A total of 30 energy-saving kits, consisting of 23 natural gas kits and 7 electric kits, were shipped to households in the ComEd service territory.

### CLEAResult – School Energy Savings (SES) Program

*Overview: The School Energy Savings (SES) Program provides private education establishments with a peak annual electric demand of 100kW or below with an assessment of operational efficiency, free direct installation of energy and cost saving measures, and optimization of existing systems' operational procedures and controls.*

- **0 MWh savings achieved (0% of forecast)**
- The program launched several new measures in PY9 including commercial programmable thermostats and LED measures including 13.5W LED BR30, 7.5 W LED A Lamp, 8W LED BR30 Directional Bulb, 7W LED PAR20, 10W PAR30, 4.7W LED Candelabra, 7.5W LED Candelabra, and 8W LED Globe.
- CLEAResult will begin using a subcontractor to install free products in schools.
- There is currently a robust pipeline of customers with completed audits ready for installations.

### Matrix – Private Schools Program

*Overview: Matrix provides private education*

## IPA Programs – Third Party

### Matrix – Private Schools Program (continued)

establishments with implementation of capital intensive measures and emerging technologies create short- and long-term energy savings. The program will involve all energy end-uses that can be found in an educational environment, including but not limited to lighting and controls.

- **532 MWh savings achieved (7% of forecast) based on 17 projects**
- The program is focused on increasing the pipeline and promoting the program to ensure enough interest to achieve program savings goals.

### Matrix – Demand Based Ventilation Fan Controller (DBVFC) Program

Overview: Matrix optimizes the operating time of HVAC systems for small business customers including restaurants and fitness centers. The Demand-Based Ventilation Fan Controller (DBVFC or DCV) optimizes the operating time of an HVAC system to reduce the amount of outside air required to a space during partial occupancy and energy use.

- **0 MWh savings achieved (0% of goal)**
- Matrix is revising marketing materials for the new program year and developing a new prototype which is pending review in Q2.

### CLEAResult – AirCare Plus (<100 kW)

Overview: The AirCare Plus program is an enhanced HVAC maintenance service program designed to optimize the performance of all major energy-using components of packaged HVAC Roof Top Units (RTUs) and split systems. The program integrates a package of energy saving hardware retrofits and mechanical adjustments into the standard commercial HVAC service and maintenance model to provide a cost-effective energy saving solution for 3 to 60 ton units. Savings from commercial participants with a peak demand of greater than 100 kW are

attributed to the EEPS portfolio. Small commercial participants with a peak demand of 100 kW or less are attributed to IPA.

- **1,383 MWh savings achieved (17% of forecast) based on 220 units**
- More than 200 HVAC RTUs of commercial participants with a peak demand of less than 100 kW received tune-ups in Q1.
- Program activity is dependent on weather conditions with tune-ups requiring ambient air temperatures of 65 degrees.
- The program primes customers with thermostats during the colder months and re-engage customers with an HVAC tune-up in the spring.
- HVAC tune-up incentive levels were increased at no cost to customers to boost participation rates.
- Programmable Thermostat incentives were increased for Trade Allies.
- While customer participation rates were lower than anticipated, MWh savings per project were above target.
- Small customer participation rates have been growing as Trade Allies develop their business model.

### The Weidt Group – New Construction Small Business Offering (Net Energy Optimizer)

Overview: The Weidt Group provides energy saving calculations through a web-based modeling tool for commercial and multi-family buildings ineligible for the SIFYB New Construction Program. The Small Business Offering (SBO) expands on the New Construction market to provide technical analysis to commercial buildings between 5,000 and 20,000 square feet and multifamily buildings between 5,000 and 100,000 square feet through the use of an online energy modeling tool called the Net Energy Optimizer (NEO).

- **8 MWh savings achieved (0.4% of forecast) based on 15,384 square feet in 1 building**



## IPA Programs – Third Party

### The Weidt Group – New Construction Small Business Offering (Net Energy Optimizer) (continued)

- The program verified its first PY9 project, the second project in the program's existence, and received positive feedback from the participant. They were pleased with the incentive amount and thankful for help received through the program.
- Program code requirements were changed on June 1st from ASHRAE 90.1-2010 to ASHRAE 90.1-2013.
- There currently are 19 buildings with potential savings of over 1,200 MWh in the PY9 pipeline.

### 360 Energy Group – SEDAC Enhanced Building Optimization

*Overview: The public sector Enhanced Building Optimization Program provides a free comprehensive tune-up including adding high efficiency low pressure drop filters for all rooftop units/split systems that have not had preventative maintenance done for the last three years, as well as continuous monitoring of HVAC units.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

### CLEAResult – Community-based CFL Distribution Program

*Overview: The Community-based CFL Distribution Program provides ENERGY STAR®-certified CFLs to food banks affiliated with Feeding America. The food banks then use their network of local food pantries to distribute the bulbs to utility customers in need may elect to receive a free 4-bulb pack.*

- **2,562 MWh savings achieved (20% of forecast) based on 161,232 bulbs distributed**
- The program successfully executed participation agreements with 3 food banks, which have collectively signed up 616

participating food pantries.

### CLEAResult – Luminaire Level Lighting Control (LLLC) Program

*Overview: The Luminaire Level Lighting Control Program provides Comprehensive lighting assessments and installation assistance targeting advanced LED lighting technologies and controls, delivered through a network of lighting Trade Allies.*

- **0 MWh savings achieved (0% of forecast)**
- The program has successfully executed participation agreements with four major lighting manufacturers, each of whom have established a team of three to five Trade Allies currently undergoing program training.

### Elevate Energy – Assisted Living and Senior Housing Program

*Overview: Elevate Energy will provide a full-service energy efficiency program focused on identifying and implementing electric measures that support peak load reductions in senior housing and assisted living facilities.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

### Energy Resources Center – Low Income Kit Energy (LIKE) Program

*Overview: The Low Income Kit Energy program partners with Community Actions Agencies to provide income-qualified customers throughout the ComEd service territory with a kit containing energy-saving devices and educational information on additional energy-saving actions they can take to reduce their energy bills.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

## IPA Programs – Third Party

### Energy Resources Center – Low Income Multi-family Energy Program

*Overview: The Low Income Multi-Family Program provides comprehensive energy assessments and project management assistance for upgrades in privately-owned, federally-assisted public housing administered under HUD Section 8 (low-income), 811 (disabled), and 202 (elderly) and USDA Section 515 (rural single-family low-income). The program is delivered in partnership with the Building Research Council at the University of Illinois Urbana-Champaign. ERC engineers perform building energy audits and work with building owners to facilitate the selection of contractors performing building retrofits.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

### Franklin Energy Services – Rural Small Business Energy Efficiency Kits Program

*Overview: The Rural Small Business Energy Efficiency Kits Program aims to cost effectively capture electric energy savings in small business facilities located in ComEd's rural counties. The program achieves savings through a mail-order kit of self-install energy efficiency measures including low cost lighting, power strip, and water efficiency measures delivered directly to customer facilities. The program is delivered in partnership with Resource Action Program, a Franklin subsidiary.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

### GDS Associates – Agricultural Energy Efficiency Program (CoAg)

*Overview: The Agricultural Energy Efficiency Program provides comprehensive energy assessments and installation assistance targeting*

*measures for agricultural businesses. The program is delivered through local Trade Allies.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.

### GDS Associates – Lit Signage

*Overview: The Lit Signage Program provides lighting assessments and installation assistance targeting lit signage, including outdoor signs and billboards. The program is delivered through network of local Trade Allies.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline. In addition, the program has significant overlap with ComEd's SBES program as it utilizes many of the same lighting Trade Allies to offer similar incentives. The program is expected to compete with the SBES program for many of the external lighting projects.

### Midwest Energy Efficiency Alliance (MEEA) – Savings Through Efficient Products (STEP)

*Overview: Delivered in partnership with the Energy Resources Center at the University of Illinois Chicago and Green Home Experts, the STEP program provides walk through assessments to identify low cost measures which are shipped to facilities for self-installation. This program is an extension of MEEA's existing Department of Commerce and Economic Development STEP program. The IPA Third Party version of the program was approved as an additional source of funding in the event that the Department of Commerce budget is depleted by MEEA prior to end of program year.*

- **0 MWh savings achieved (0% of forecast)**
- Because this is a new PY9 program, the implementer has been challenged building the project pipeline.



## Marketing Education & Awareness

### PY9 Q1 General Outreach

- Participated in 100 energy efficiency events
- Interacted with approximately 14,711 customers
- Collected approximately 2,376 emails
- Drove 17,945 unique page visits to [ComEd.com/HomeSavings](http://ComEd.com/HomeSavings)

### PY9 Summer FFR Campaign

*Overview: The FFR Campaign promotes customer awareness of the program with a call to action to recycle their working fridge for free and get \$50.*

- Ran from June 6 – October 2<sup>nd</sup>, 2016
- Included Out of Home, Digital and Radio
- Generated 42,656,324 impressions campaign wide

### PY9 Summer Smart Thermostat Campaign

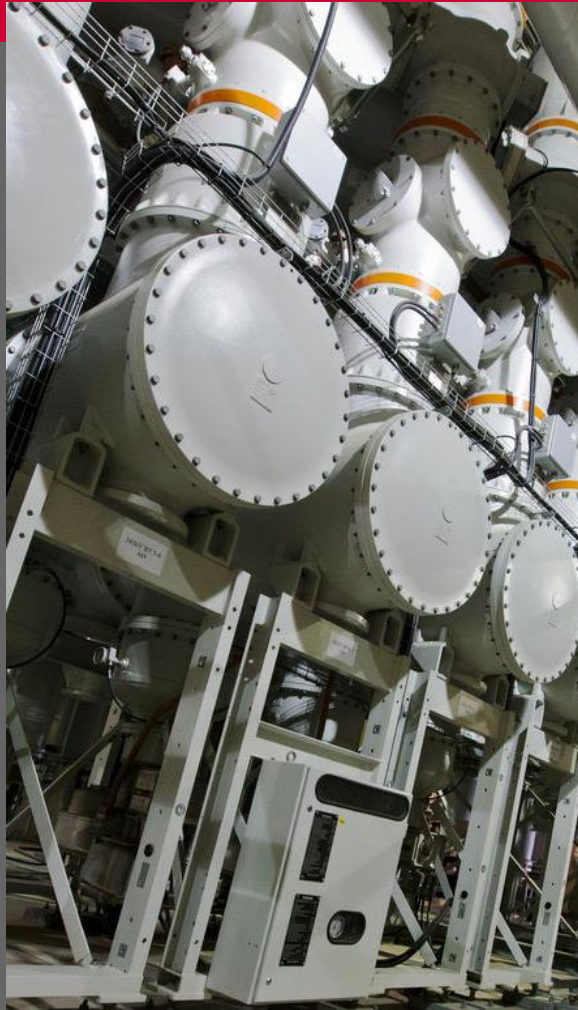
*Overview: The Smart Thermostat Campaign was created to spread awareness about the Smart Thermostat rebates up to \$100 and a call to action to learn more about rebates at [ComEd.com/Rebates](http://ComEd.com/Rebates).*

- Ran from June 1 – August, 31<sup>st</sup>
- Included Out of Home, Digital and Radio
- Generated 52,514,361 impressions campaign wide

### PY9 Fall E&A Campaign – Celebrate with Rebates

*Overview: The Celebrate with Rebates campaign spreads awareness that Energy Star appliances save energy and money with a call to action to learn more at [ComEd.com/HomeSavings](http://ComEd.com/HomeSavings).*

- First month of the campaign, starting August 1<sup>st</sup>
- Included Digital and Radio
- Generated 21,481,177 impressions campaign wide



## Emerging Technology Activities

*Mission: Introduce, assess and accelerate demonstration and commercialization into the ComEd service territory emerging cost-effective energy efficient technologies and services that have been verified to offer sustainable kWh and kW savings*

### Smart Meter Connected Devices Service (SMCD)

*Overview: Customers are able to purchase smart devices directly from manufacturers and have their smart device connected or joined to their smart meter to receive near real-time energy data. Primary customer benefits include increased cost awareness of electric energy consumption, potentially reduced electric energy use due to behavioral changes, and the flexibility to choose a desired smart meter connected device.*

- Service Launch: December 2014
- Target Customer: ComEd residential customers with smart meters
- 353 customers have been successfully commissioned into the SMCD service.

### Bidgely

*Overview: Residential Smart Meter data disaggregation tool to assist residential customers in understanding where their energy use is occurring and how they can take control of it.*

- Type of Test: In field testing to 5,000 homes using Bidgely Gateway or SilverLink network
- Estimated Completion Date: 2016

### Root3

*Overview: Root3 is a cloud based energy data model that works with existing energy management systems and evaluates variables such as thermal and electric loads, energy prices, equipment efficiencies, and energy storage capacity for understanding site performance and making recommendations that will optimize performance. ComEd along with the Root3 Technologies vendor will engage the ComEd Industrial Outreach Team to enlist four industrial*



## Emerging Technology Activities

### Root3 (continued)

*central plant customers for participation in this one year pilot and will then will then evaluate the technology's ability to deliver energy savings for the portfolio and determine the appropriate channel.*

- **101 MWh savings achieved based on 1 site**
- Estimated Completion Date: Q4 2016
- Root3 software was successfully installed in one location, with one more location in process of having it installed.
- The savings methodology is currently being discussed with Navigant and will need to be agreed upon.
- Difficulty in having the software installed and data flow from the site to Root3 is a challenge as Root3 works with the site's IT staff.

### Variable Refrigerant Flow (VRF)

*Overview: Evaluation of HVAC technology that uses refrigerant as both the heating and cooling medium*

- Type of Test: Demonstration of technology was the original intention, but focus has changed to a market evaluation and technical review.

## Portfolio Results

### EEPS Energy Saved (MWh)

Program Year	Evaluation Status	Net MWh Achieved	Net MWh Goal	% of Goal Achieved
PY1	Ex Post	163,717	148,842	110%
PY2	Ex Post	472,132	312,339	151%
PY3	Ex Post	626,715	458,919	137%
PY4	Ex Post	944,142	610,804	155%
PY5	Ex Post	949,392	827,575	115%
PY6	Ex Post	986,314	787,432	125%
PY7	Ex Post	809,878	648,029	125%
PY8	Ex Ante	618,058	541,983	114%
PY9	Ex Ante	45,778	517,369	9%

### IPA – ComEd Energy Saved (MWh)

Program Year	Evaluation Status	Net MWh Achieved	Net MWh Goal	% of Goal Achieved
PY6	Ex Post	127,938	98,188	130%
PY7	Ex Post	310,647	371,825	84%
PY8	Ex Ante	635,227	623,523	102%
PY9	Ex Ante	122,022	747,012	16%

### IPA – Third Party Energy Saved (MWh)

Program Year	Evaluation Status	Net MWh Achieved	Net MWh Goal	% of Goal Achieved
PY6	Ex Post	4,397	11,229	39%
PY7	Ex Post	2,132	16,041	13%
PY8	Ex Ante	12,377	48,056	26%
PY9	Ex Ante	5,174	136,515	4%

### DCEO Energy Saved (MWh)

DCEO	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
ComEd Goal	39,887	81,352	125,158	109,198	114,634	115,258	97,625	98,810	98,811
Net MWh	17,714	34,075	54,130	106,475	99,583	80,782	80,453	N/A	N/A

### ComEd Environmental and Economic Impact

Performance Metrics (Equivalents)	PY9	PY8	PY7	PY6	PY5	PY4	PY3	PY2	PY1
Net MWh*	172,973	1,265,662	1,122,657	1,118,649	949,392	944,142	626,715	472,132	163,717
Carbon reduction (tons)	108,773	795,906	705,978	703,457	597,021	593,719	394,107	296,898	102,953
Cars removed from the road	22,900	167,558	148,626	148,096	125,688	124,993	82,969	62,505	21,674
Acres of trees planted	89,159	652,382	578,670	576,604	489,362	486,655	323,038	243,359	84,387
Number of homes powered for 1 year**	18,842	137,872	122,294	121,857	103,420	102,848	68,270	51,431	17,834
Portfolio jobs***	304	267	260	234	196	179	154	84	66

\* Assumes average ComEd single-family residential home with no electric space heat consumes 765 kWh monthly or 9,180 kWh annually per the filing.

\*\* Portfolio Jobs reflect actual positions by ComEd and its contractors that are part of the Rider EDA and does not attempt to capture indirect jobs in the energy efficiency industry that may result from the ComEd portfolio.

## Budget v. Actual

### Expenditures

Expenditures	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
EEPS*	\$ 27,356,150	\$ 52,071,861	\$ 75,691,133	\$ 106,673,405	\$ 107,354,964	\$ 124,096,016	\$ 128,249,370	\$ 108,811,809	\$ 22,803,617
IPA	\$ -	\$ -	\$ -	\$ -	\$ 31,329	\$ 29,469,183	\$ 39,150,327	\$ 86,823,029	\$ 11,330,073
DCEO	\$ 6,949,809	\$ 11,471,616	\$ 28,659,011	\$ 35,049,987	\$ 33,565,649	\$ 31,563,417	\$ 33,728,435	\$ 22,464,619	\$ 207,163
<b>Total</b>	<b>\$ 34,305,960</b>	<b>\$ 63,543,477</b>	<b>\$ 104,350,144</b>	<b>\$ 141,723,392</b>	<b>\$ 140,951,943</b>	<b>\$ 185,128,616</b>	<b>\$ 201,128,132</b>	<b>\$ 218,099,457</b>	<b>\$ 34,340,854</b>

EEPS*	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
Plan Budget	\$ 29,900,000	\$ 61,778,000	\$ 95,911,000	\$ 120,943,446	\$ 121,570,242	\$ 122,075,407	\$ 117,750,001	\$ 119,175,004	\$ 119,699,999
Spending Screen	\$ 29,900,000	\$ 60,056,000	\$ 91,811,022	\$ 120,312,967	\$ 119,271,119	\$ 116,765,205	\$ 117,900,001	\$ 119,151,480	\$ 119,739,377
Actual	\$ 27,356,150	\$ 52,071,861	\$ 75,691,133	\$ 106,673,405	\$ 107,354,964	\$ 124,096,016	\$ 128,249,370	\$ 108,811,809	\$ 22,803,617

IPA ComEd	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
Plan Budget						\$ 29,100,998	\$ 41,388,847	\$ 95,003,275	\$ 105,078,389
Spending Screen						\$ 29,100,998	\$ 41,388,847	\$ 95,003,275	\$ 105,078,389
Actual						\$ 28,071,420	\$ 38,070,511	\$ 82,440,854	\$ 10,472,151

IPA Third Party	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
Plan Budget					\$ -	\$ 2,311,495	\$ 3,433,444	\$ 10,625,929	\$ 31,692,790
Spending Screen					\$ -	\$ 2,311,495	\$ 3,433,444	\$ 9,549,229	\$ 29,784,570
Actual					\$ 31,329	\$ 1,397,763	\$ 1,079,816	\$ 4,382,175	\$ 857,922

DCEO	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
Plan Budget	\$ 9,500,000	\$ 19,783,000	\$ 30,724,000	\$ 40,039,149	\$ 40,523,414	\$ 40,691,802	\$ 39,250,000	\$ 39,675,000	\$ 39,850,000
Spending Screen	\$ 9,500,000	\$ 19,200,000	\$ 29,270,150	\$ 39,522,619	\$ 39,703,706	\$ 38,871,735	\$ 39,250,000	\$ 39,675,000	\$ 39,850,000
Actual	\$ 6,949,809	\$ 11,471,616	\$ 28,659,011	\$ 35,049,987	\$ 33,565,649	\$ 31,563,417	\$ 33,728,435	\$ 22,464,619	\$ 207,163

### \*EEPS Expenditures

EEPS Expenditures	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8	PY9
C&I Programs	\$ 12,093,550	\$ 23,957,908	\$ 35,764,723	\$ 54,033,210	\$ 55,573,971	\$ 74,531,783	\$ 78,936,840	\$ 67,153,692	\$ 9,431,409
Residential Programs	\$ 8,808,641	\$ 19,881,908	\$ 27,853,019	\$ 36,334,199	\$ 34,792,236	\$ 34,302,783	\$ 33,139,184	\$ 26,083,922	\$ 8,651,522
Third Party Programs	\$ -	\$ -	\$ -	\$ 1,039,262	\$ -	\$ 372,642	\$ -	\$ -	\$ -
Demand Response	\$ 476,028	\$ 819,145	\$ 1,083,329	\$ 1,310,922	\$ 1,253,218	\$ 1,197,008	\$ 1,120,771	\$ 1,071,037	\$ 27,741
Education/Marketing	\$ 1,685,307	\$ 1,649,418	\$ 2,957,998	\$ 4,498,945	\$ 4,409,895	\$ 4,133,504	\$ 4,447,934	\$ 4,385,309	\$ 1,779,219
R&D/Emerging Tech	\$ 628,267	\$ 1,026,174	\$ 1,387,102	\$ 974,156	\$ 1,142,049	\$ 1,849,544	\$ 1,613,561	\$ 1,428,572	\$ 324,396
Portfolio Admin	\$ 2,464,359	\$ 2,359,629	\$ 2,959,915	\$ 2,002,949	\$ 3,478,203	\$ 1,576,545	\$ 976,472	\$ 1,239,040	\$ 221,702
Labor	\$ -	\$ -	\$ -	\$ 2,749,232	\$ 3,214,657	\$ 1,927,888	\$ 4,682,625	\$ 3,299,894	\$ 856,152
M&V	\$ 1,200,000	\$ 2,377,679	\$ 3,621,029	\$ 3,557,036	\$ 3,262,259	\$ 4,071,757	\$ 3,221,247	\$ 4,051,362	\$ 1,489,408
On-Bill Financing	\$ -	\$ -	\$ 64,018	\$ 173,494	\$ 228,477	\$ 132,562	\$ 110,736	\$ 98,979	\$ 22,070
<b>Total</b>	<b>\$ 27,356,150</b>	<b>\$ 52,071,861</b>	<b>\$ 75,691,133</b>	<b>\$ 106,673,405</b>	<b>\$ 107,354,964</b>	<b>\$ 124,096,016</b>	<b>\$ 128,249,370</b>	<b>\$ 108,811,809</b>	<b>\$ 22,803,617</b>

## Total Resource Cost (TRC)

### New Measure TRC

Measure	TRC
C&I	
Heat of Compression Desiccant Air Dryers	0.83
Heated Desiccant Dryer w-VSD Compressor	3.23
Heated Desiccant Dryer w-Load-No-load Compressor	1.22
Heated Desiccant Dryer w-Variable Displacement Compressor	1.87
Blower Purge Desiccant Dryer w-VSD Compressor	3.36
Blower Purge Desiccant Dryer w-Load-No-load Compressor	1.72
Blower Purge Desiccant Dryer w-Variable Displacement Dryer	2.24
Variable Displacement Screw Air Compressors	1.63
Compressed Air Pressure Flow Controllers	3.04
Conversion of DC Drives in Plastic Extruders to AC Drives	5.19
Fiber Laser Cutting Machines	7.52
All Electric Injection Molding Machine	4.59
Hybrid Injection Molding Machine	9.66
Automatic High-Speed Doors for Freezer-Cooler	6.82
Automatic High-Speed Doors for Freezer-Dock	13.85
Automatic High-Speed Doors for Cooler-Dock	1.47
Storage Water Heater	0.67
ENERGY STAR® Dishwasher - Under Counter	3.75
ENERGY STAR® Dishwasher - Single Tank	Infinity
ENERGY STAR® Dishwasher - Multi Tank	13.68
Small Business-Smart Thermostat - Continuous Fan Mode During Occupied Period-Commercial	1.07
Small Business-Smart Thermostat - Intermittent Fan Mode During Occupied Period-Commercial	0.08
Residential	
ENERGY STAR® Bathroom Exhaust Fan	1.61
ECM Furnace Motor*	7.35
ENERGY STAR® Pool Pumps - Variable**	4.71
ENERGY STAR® Room Window AC***	0.44
Advanced Power Strip - Tier 2	2.05
ENERGY STAR® Water Coolers	3.16

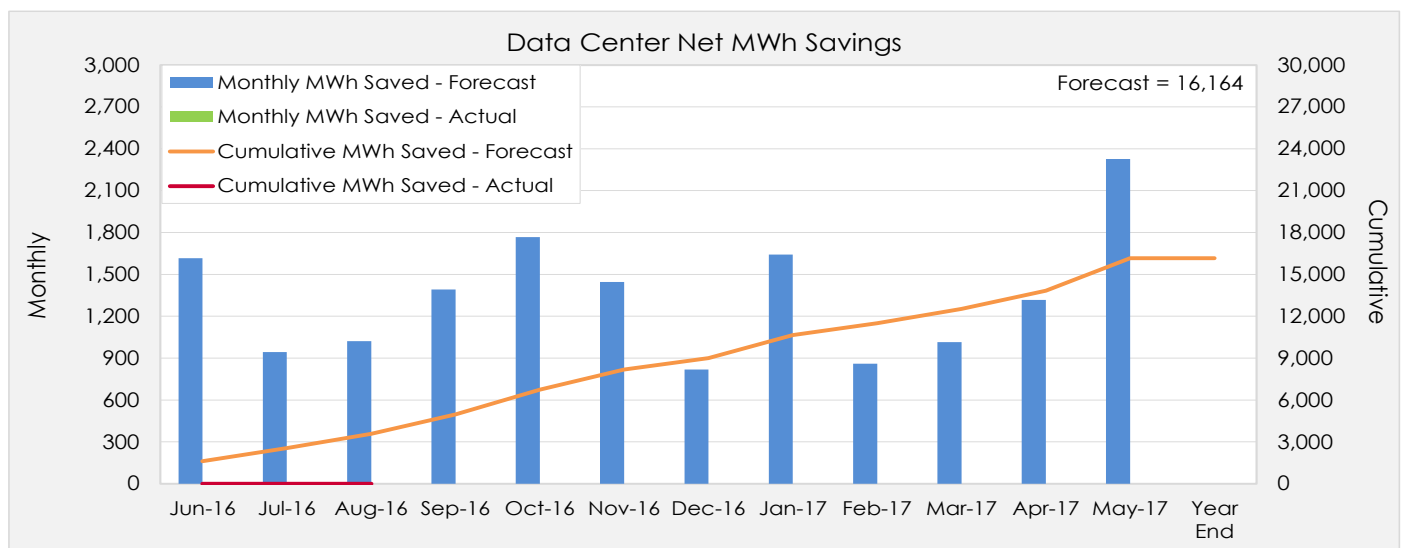
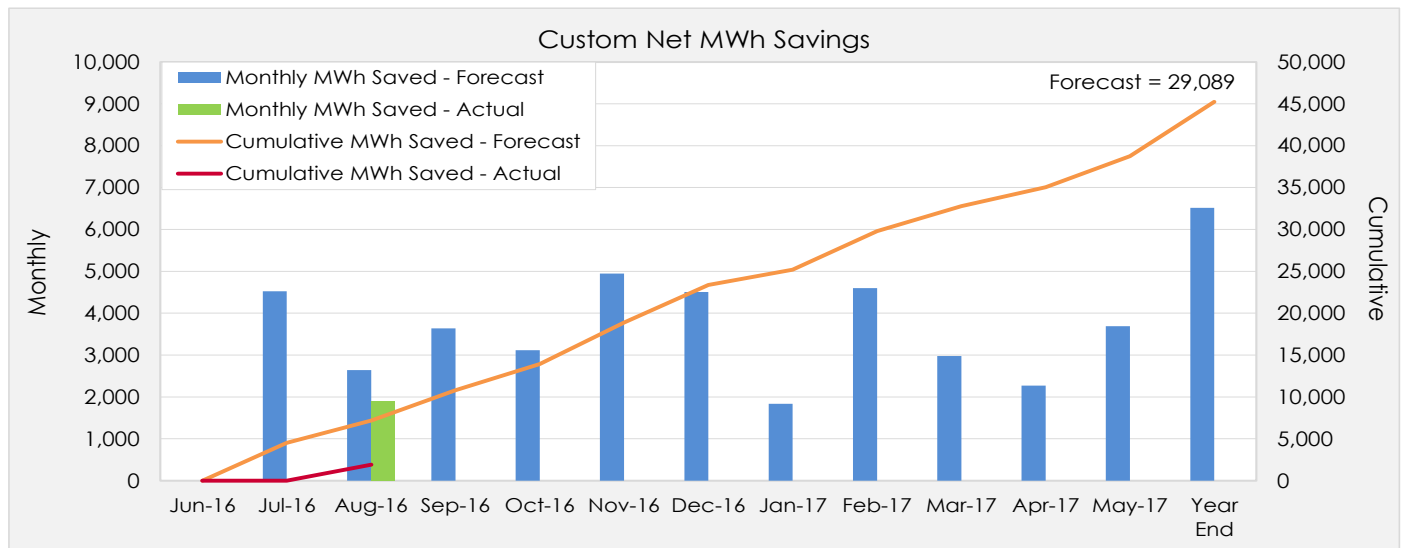
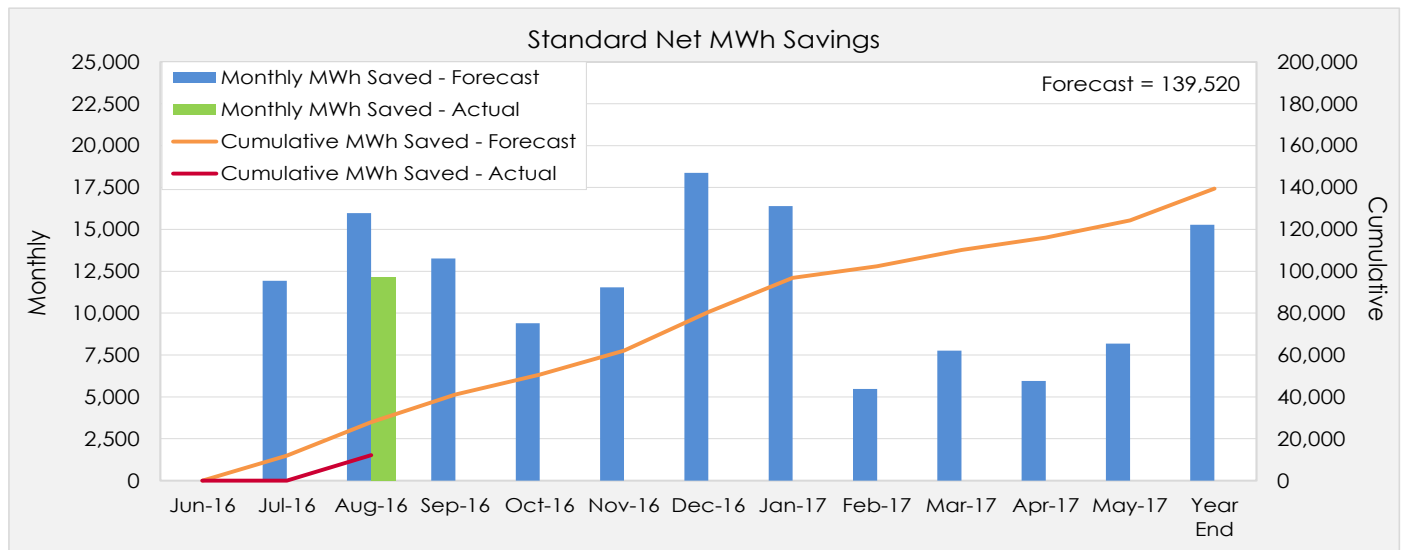
\* This measure was added in PY8.

\*\* This is a PY9 addition that was implemented at the end of PY8 for seasonal reasons.

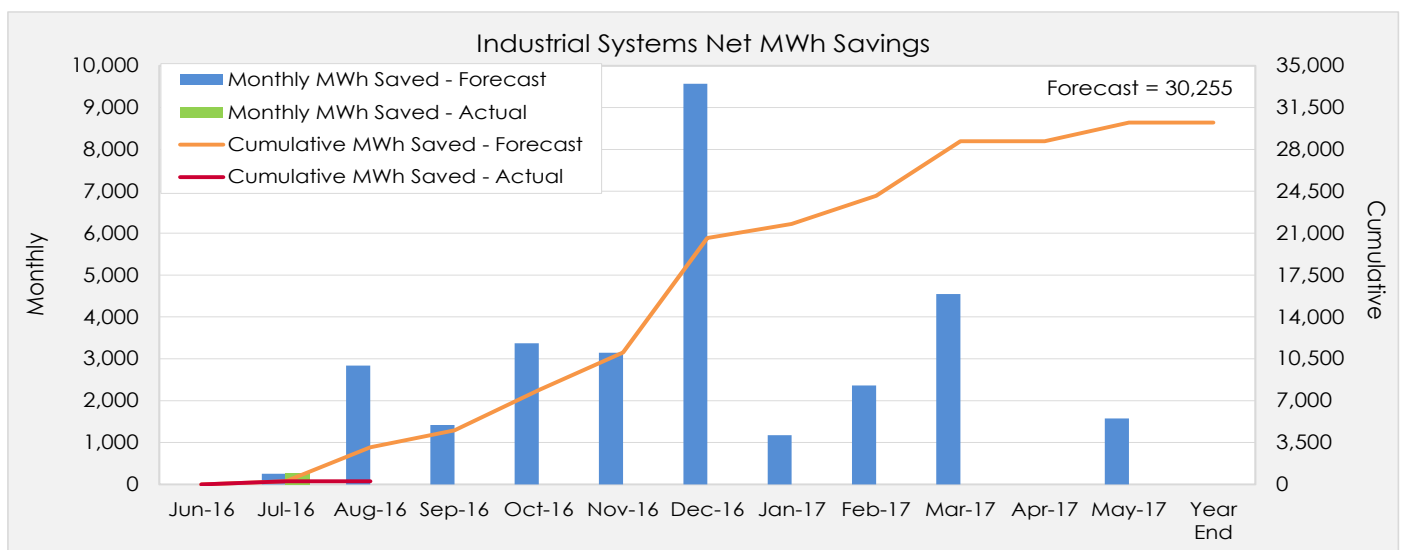
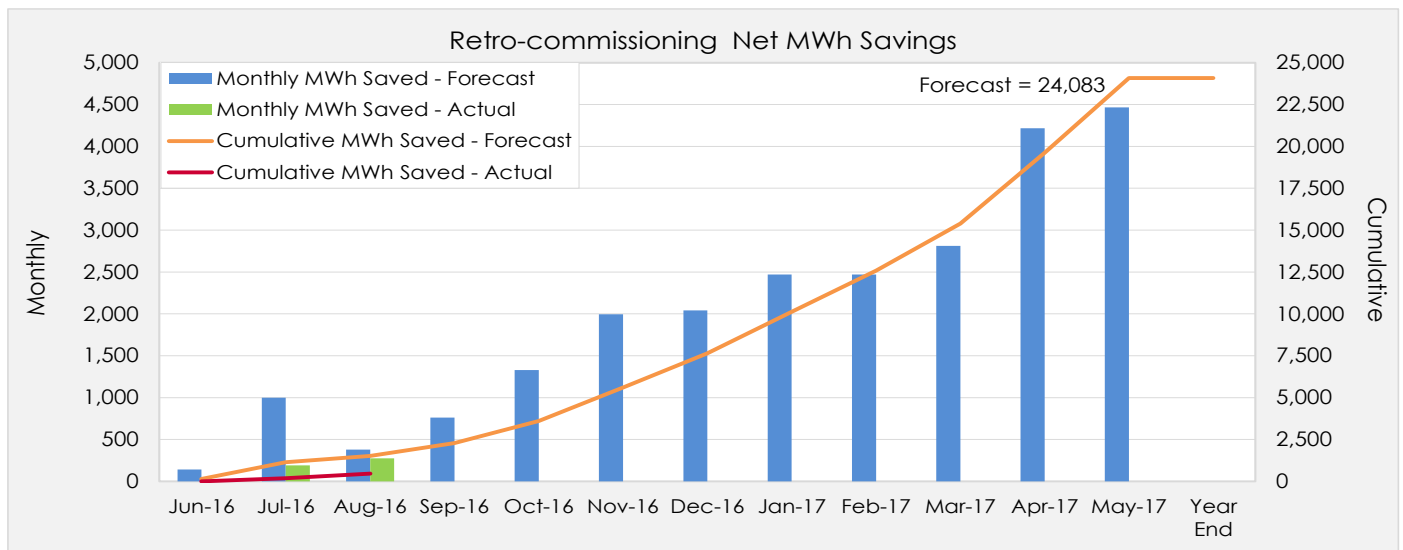
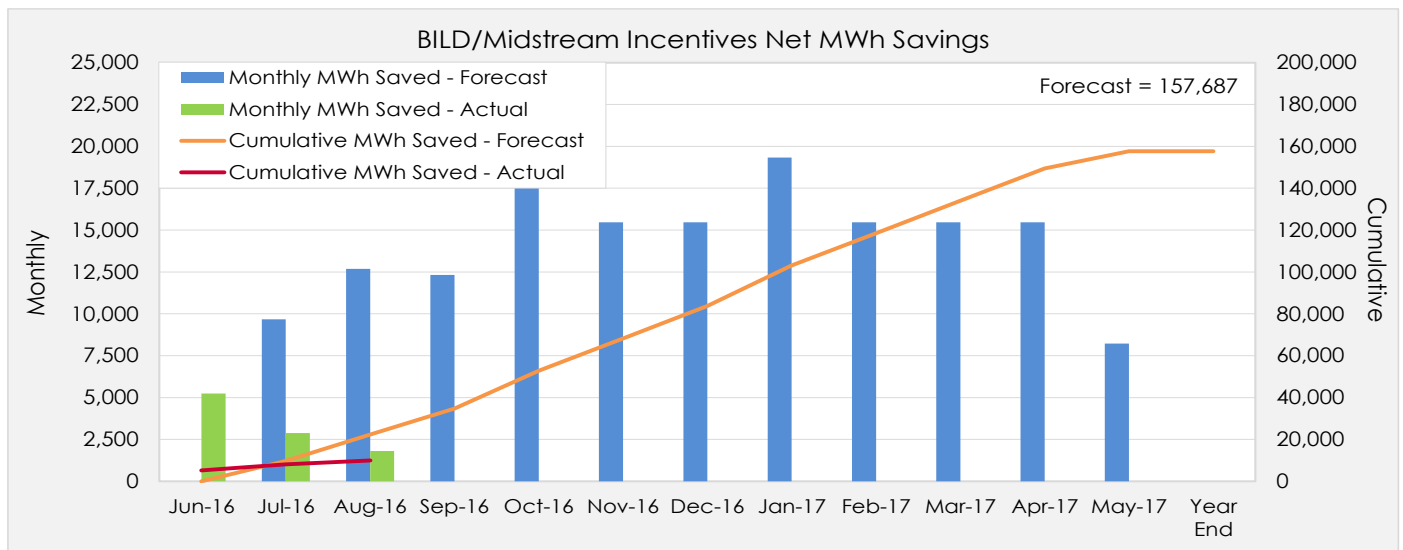
\*\*\* Even though this measure has a TRC of less than 1, It was added to portfolio at the request of SAG so parties otherwise unable to participate in a program can participate (i.e., low income participants).



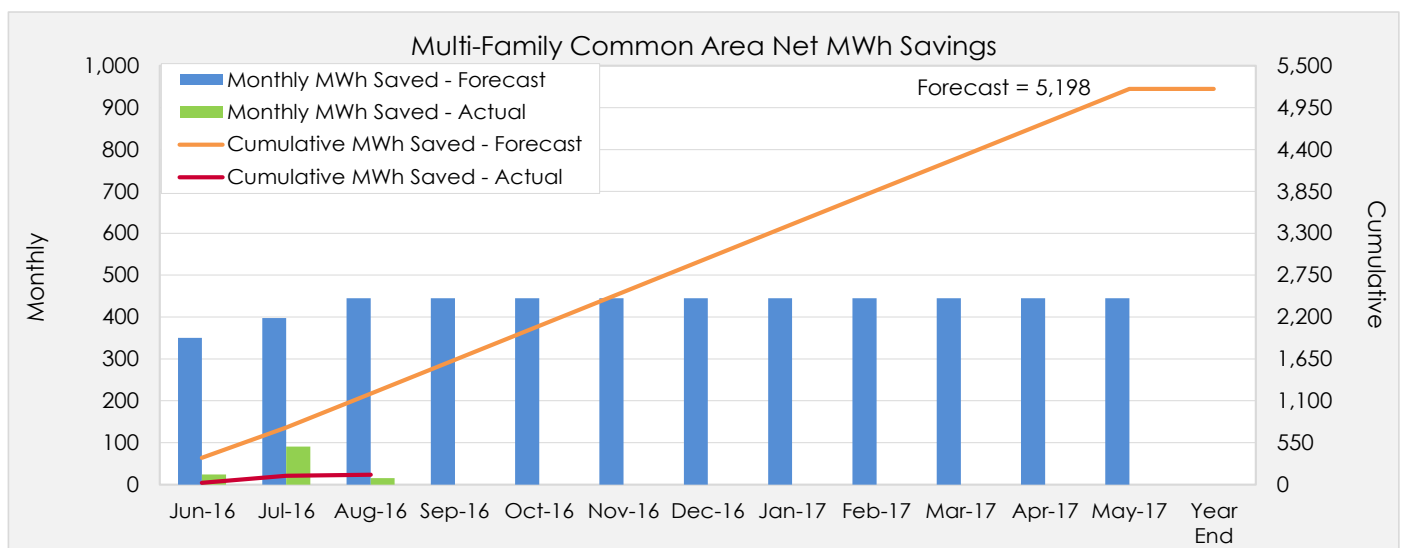
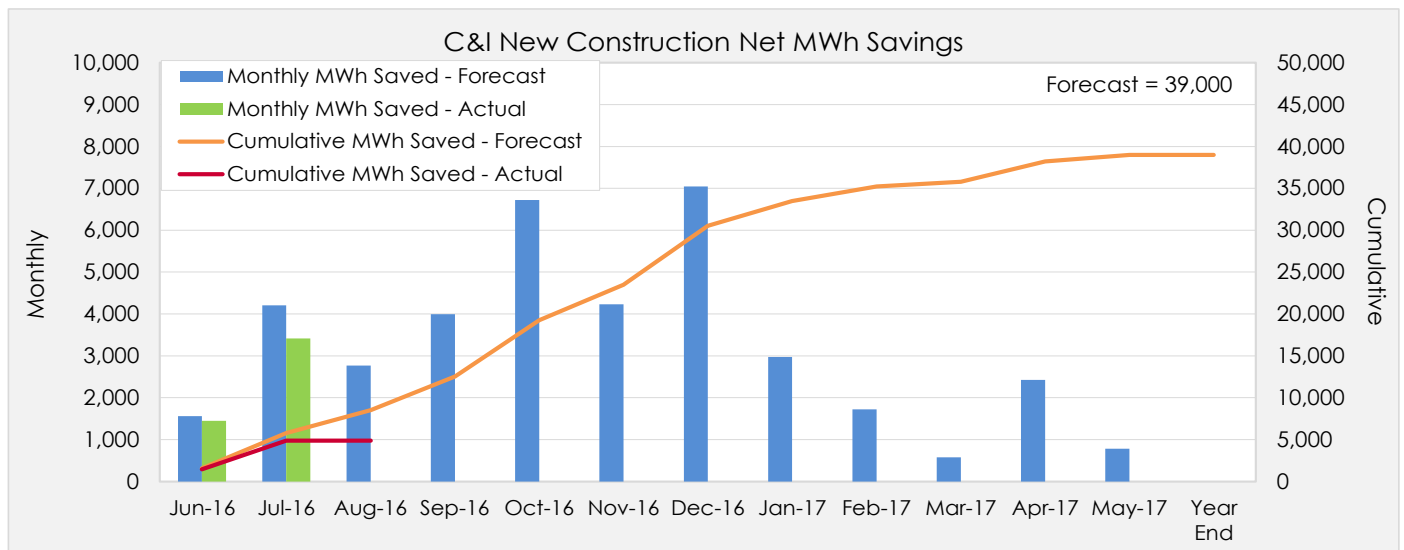
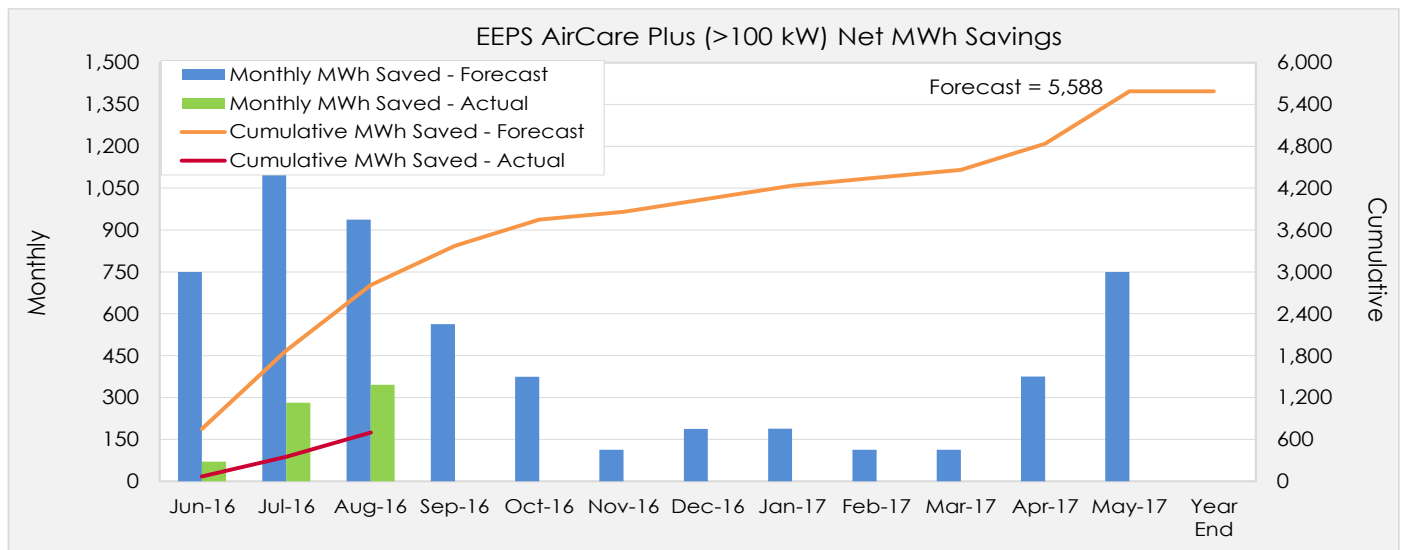
## EEPS Programs – Business – Monthly



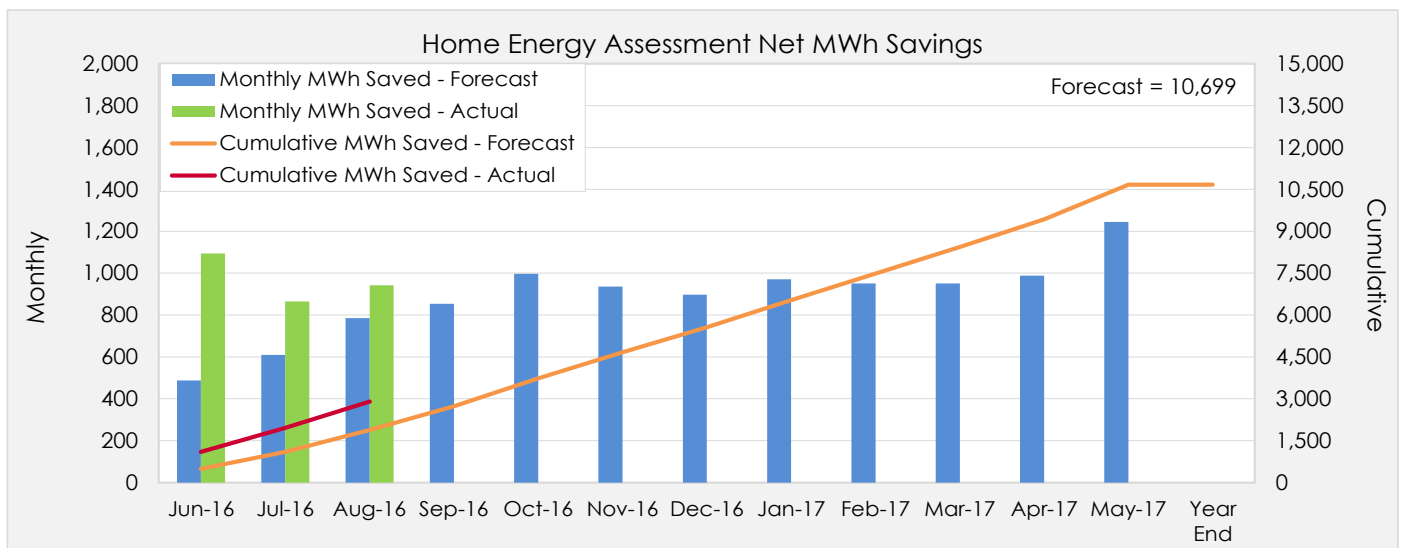
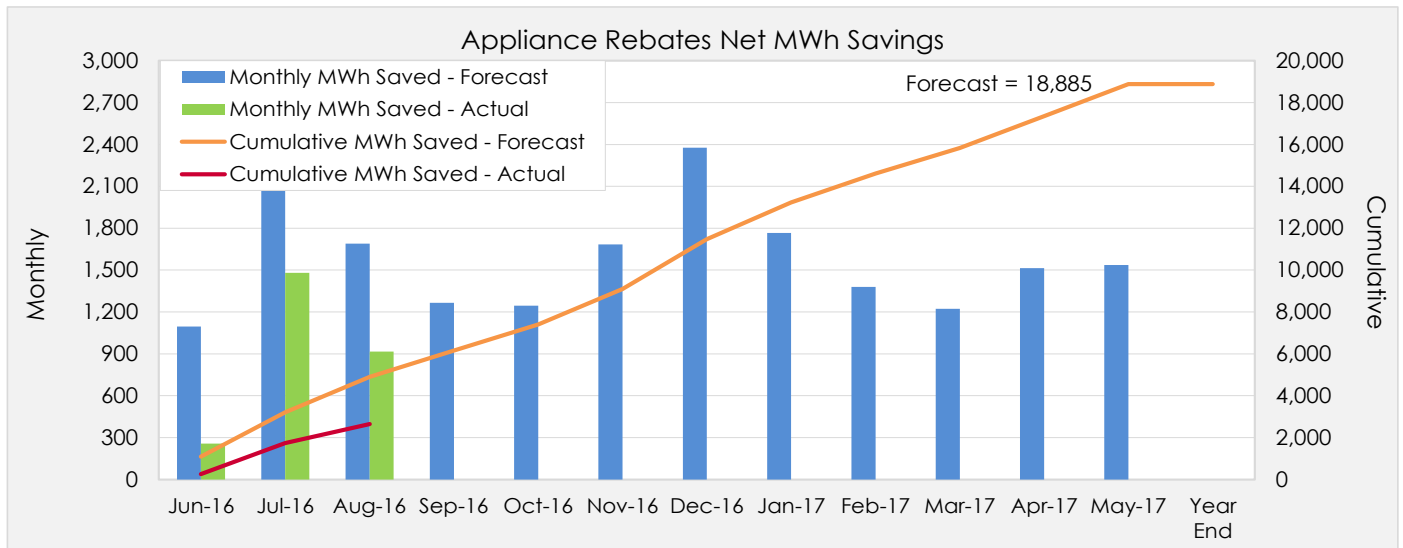
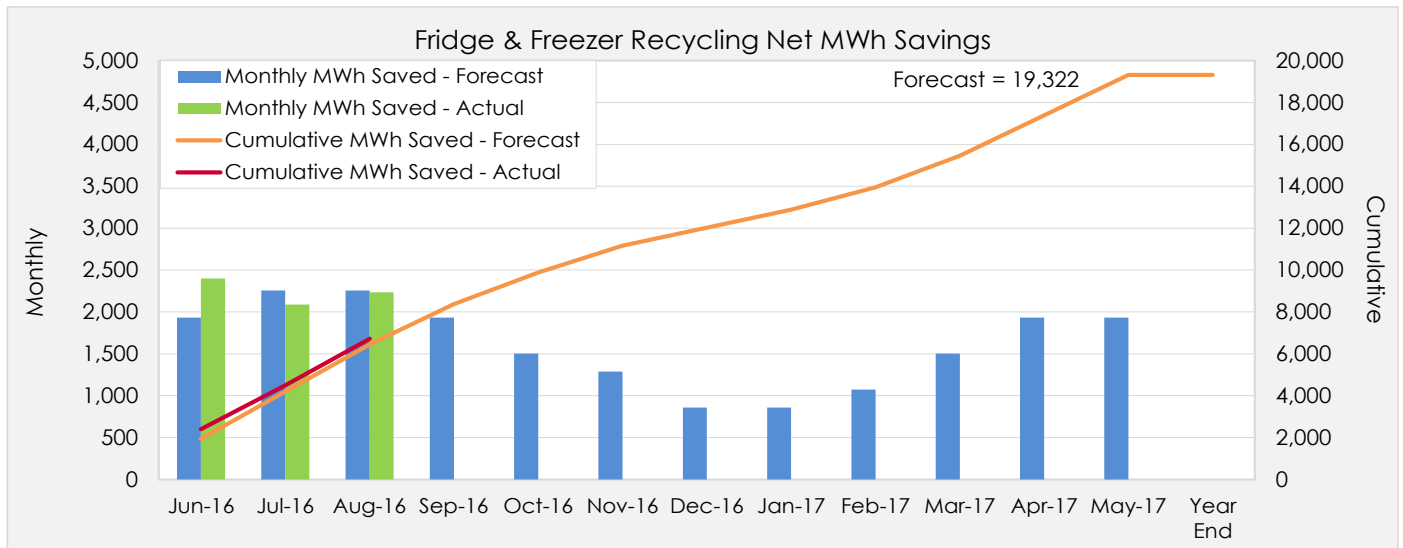
## EEPS Programs – Business – Monthly



## EEPS Programs – Business – Monthly

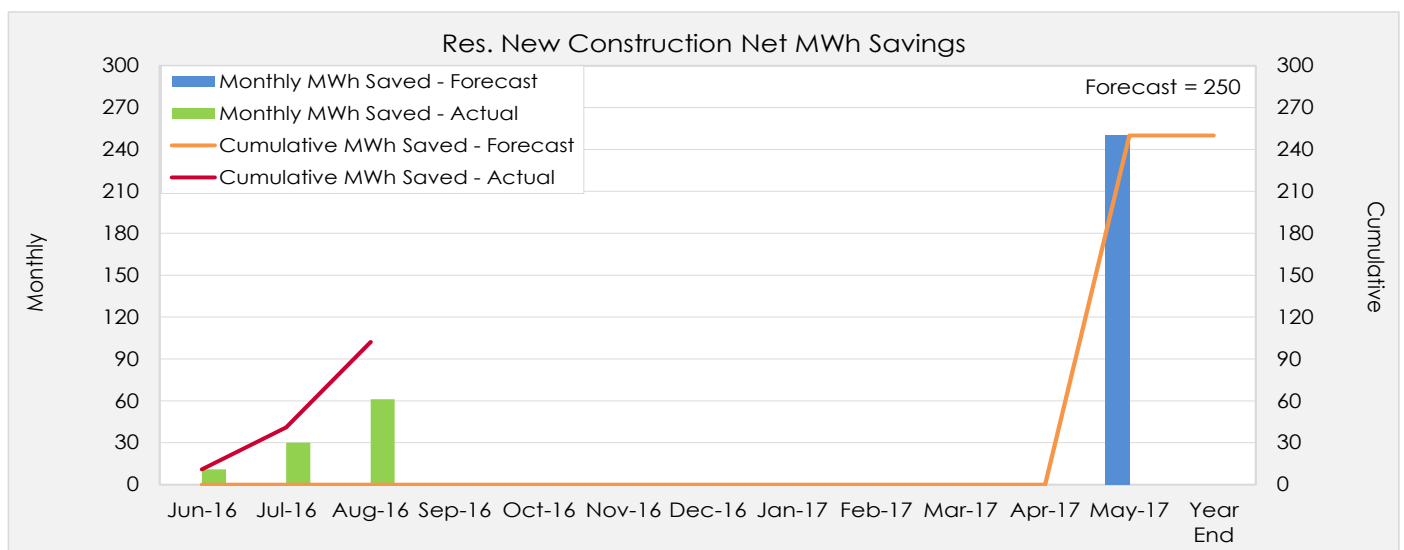
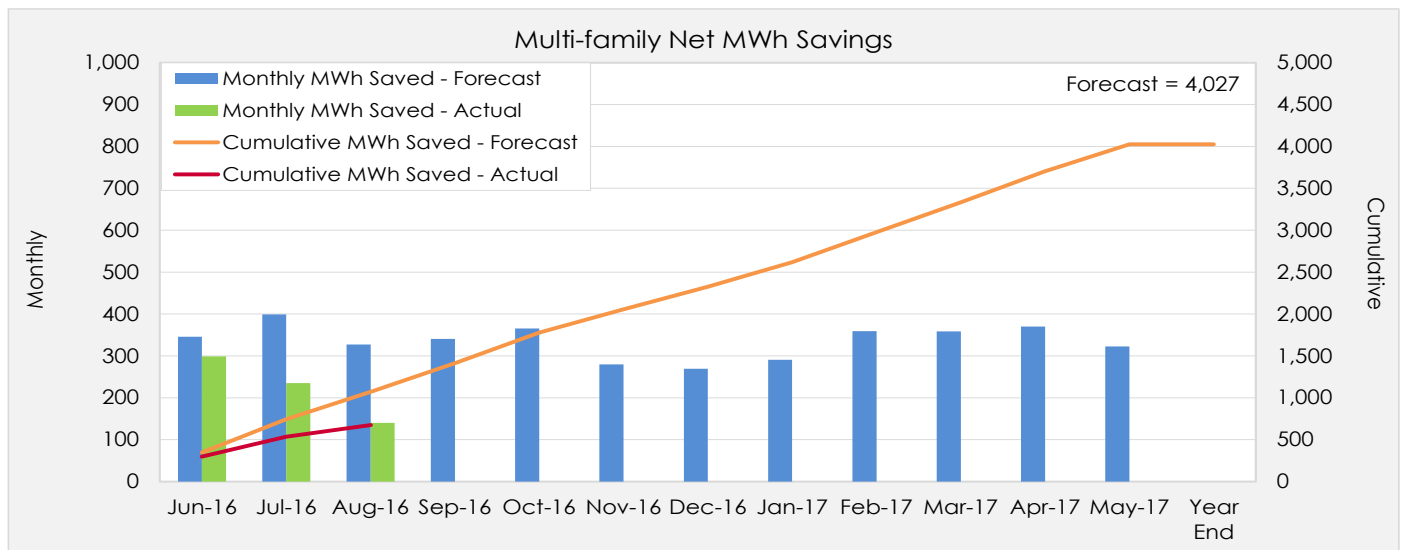
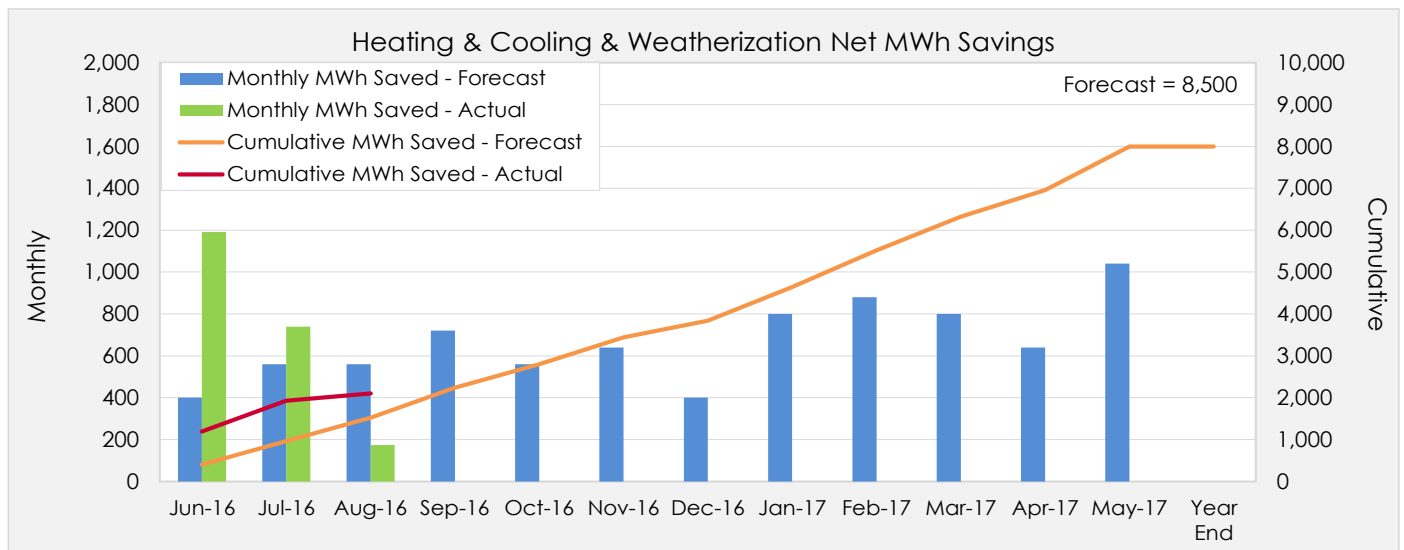


## EEPS Programs – Residential – Monthly

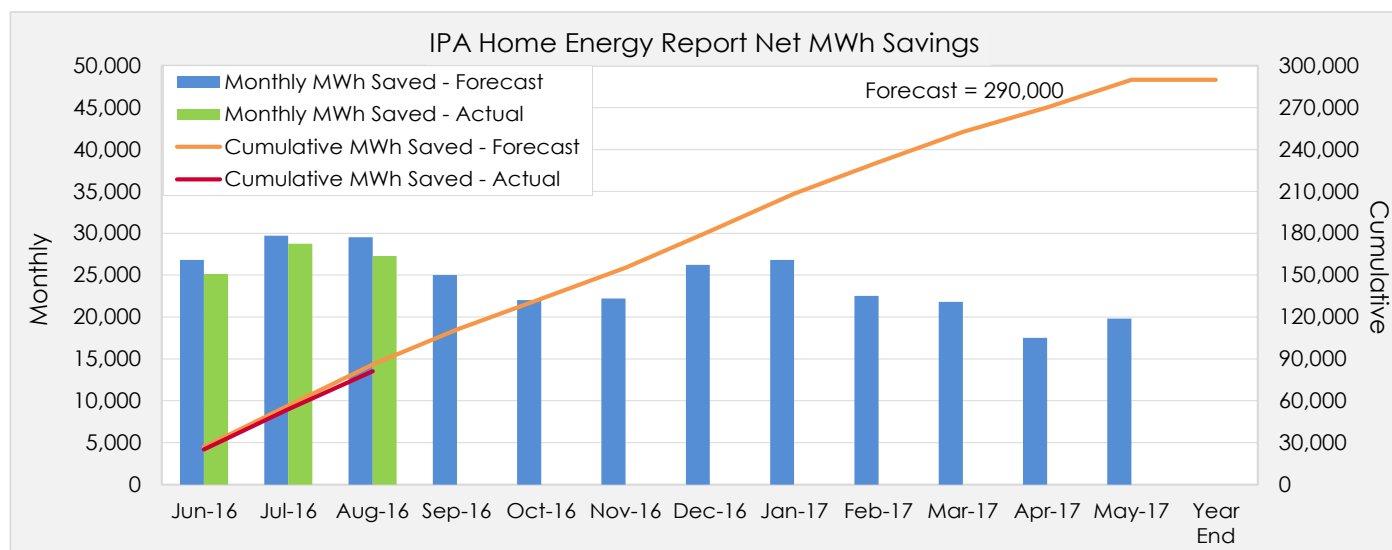
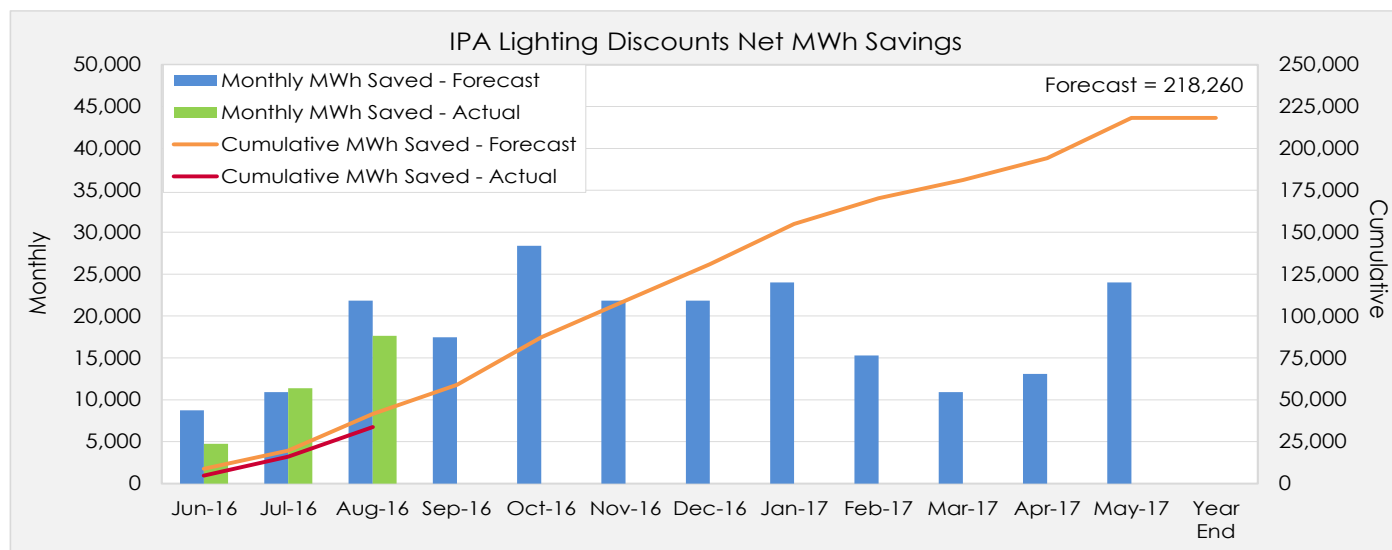
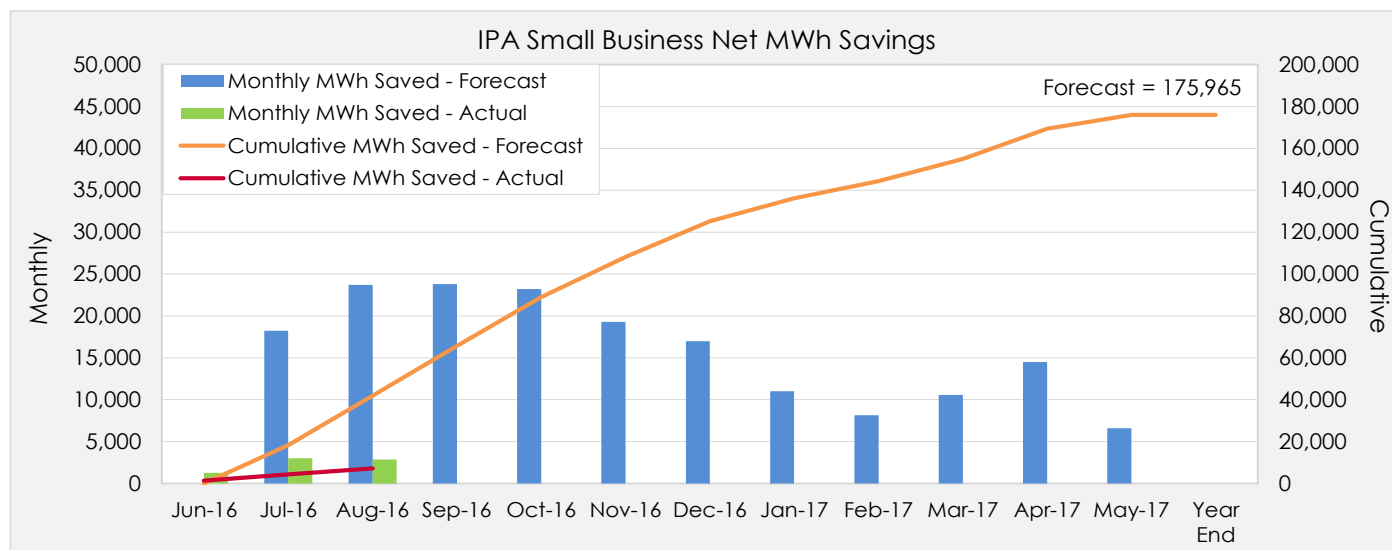




## EEPS Programs – Residential – Monthly



## IPA Programs – ComEd – Monthly



## IPA Programs – ComEd – Monthly

