



**Demand Reduction
REV Demonstration Project
in
Clifton Park
Q3 2020 Report**

October 30, 2020

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1.0 Executive Summary

On January 17, 2017 Niagara Mohawk Power Corporation d/b/a National Grid (“National Grid” or the “Company”) filed an implementation plan for the Demand Reduction REV Demonstration Project in Clifton Park (the “Project”), which is designed to provide residential customers in the Town of Clifton Park (“Clifton Park” or the “Town”) with price signals, tools and information, enabled by infrastructure investments and distributed energy resources (“DER”), to reduce electric demand during peak times and inform the Reforming the Energy Vision (“REV”) Proceeding.¹ The total number of customers affected (*i.e.*, those receiving a meter and those opting out) is approximately 14,400.

The Project aligns with the New York Public Service Commission’s (“Commission”) REV Track Two Order, wherein the Commission states that “[o]ne of the most important objectives of REV is improving overall system efficiency including the efficiency of capital investment to create value for customers. Toward that objective, electric peak reduction is among the most immediate priorities for REV implementation.”² National Grid believes it is possible to create more responsive relationships with customers by leveraging infrastructure, customer outreach and engagement, deep energy insights, actionable information, price signals, DER products, and other services, to incentivize customers to reduce peak electric load and overall energy use. The Project includes the following elements:

- Infrastructure
 - Advanced Metering Infrastructure (“AMI”)
 - Volt/VAR Optimization (“VVO”), including Conservation Voltage Reduction (“CVR”)
- Customer Outreach & Engagement
- Deep Energy Insights & Actionable Information
- Price Signals
 - Peak Time Rewards (“PTR”)
 - Voluntary Time-of-Use (“VTOU”) Rate
- DER Services³

Key activities and milestones accomplished this quarter (Q3 2020) include:

Key Activity/Milestone	Outcome
Innovative Pricing	• Continued work to identify and design potential innovative pricing rate and test scenarios.
PTR	• Completed PTR Summer 2020.
Information Technology (“IT”), Advanced Analytics	• Advanced Analytics and Energy Forecasting team, as well as IT continued Project support.

¹ Case 14-M-0101, *Proceeding on Motion in Regard to Reforming the Energy Vision* (“REV Proceeding”), National Grid Demand Reduction REV Demonstration Project in Clifton Park Implementation Plan (filed January 17, 2017) (“Implementation Plan”).

² REV Proceeding, Order Adopting a Ratemaking and Utility Revenue Model Policy Framework (“REV Track Two Order”) (issued May 19, 2016) at page 72.

³ Part of the initial Project proposal included utility-supported Community Choice Aggregation (“CCA”); however, the Town decided not to pursue utility-supported CCA.

and Energy Forecasting efforts	
VVO efforts	<ul style="list-style-type: none"> • Began VVO data collection for Measurement and Verification (“M&V”).
Customer Outreach & Marketing	<ul style="list-style-type: none"> • Updated Project communications to reflect Company’s COVID-19 response and support. • Issued PTR Summer 2020 customer communications.
DER	<ul style="list-style-type: none"> • Awaiting outcome of innovative pricing demonstration proposal to understand impact on DER promotions.
COVID-19	<ul style="list-style-type: none"> • Implemented Business Continuity Plan. • Monitoring impacts on vendors, as well as customer load shapes; considering potential effects on innovative pricing proposal. • Adjusting protocols to ensure consistent and effective customer communications throughout the pandemic

Project Elements

A visual depiction of the Project’s key services and offerings is provided below. Except for VVO, customers can opt in or opt out of each Project element. A description of each Project element is included with the individual sections of this quarterly report.

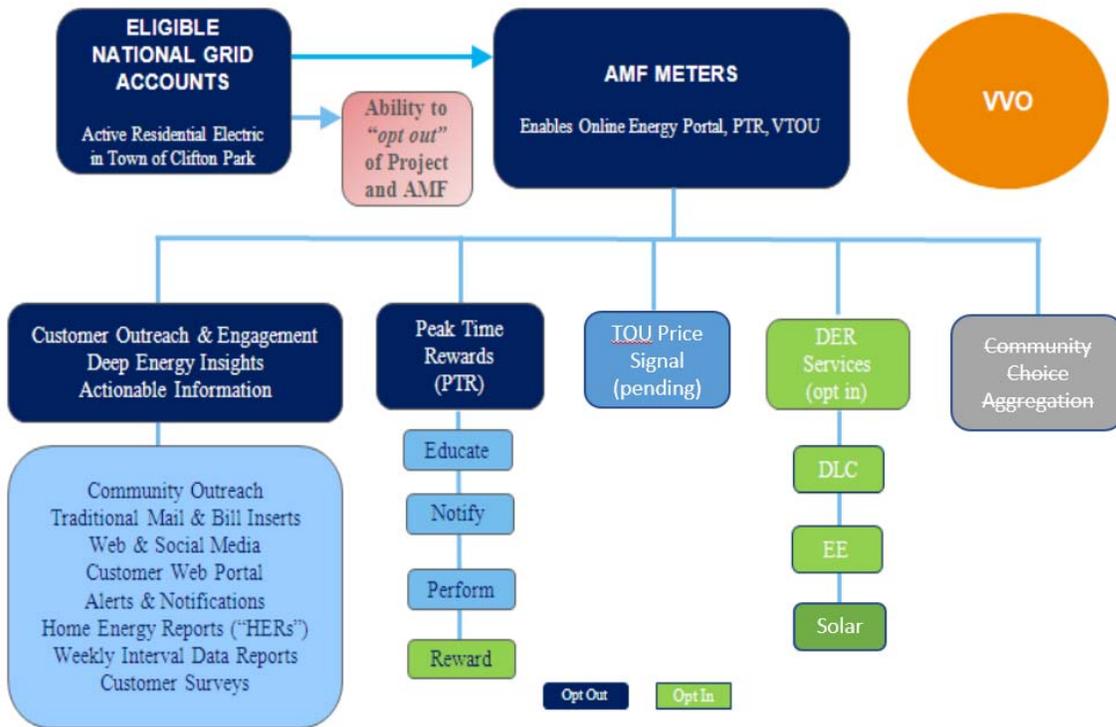


Figure 1: Project Elements

2.0 Highlights Since Previous Quarter

The following highlights key activities accomplished to date on the Project, as well as key activities planned for the next quarter.⁴

YEAR	CY QTR 1			CY QTR 2			CY QTR 3			CY QTR 4		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2016							Filed Proposal			IS Infrastructure Development		Staff Assess Ltr
2017	Filed Imp Plan		Initiate Outreach --->		Meter Installation	E2E Testing		PTR 1		AMI Meter and Customer Portal Operations		
									VVO Installation and Commissioning			
2018					AMI Meter and Customer Portal Operations	E2E Testing		PTR 2			PTR 1&2 Analysis	
									VVO Installation and Commissioning			
2019					AMI Meter and Customer Portal Operations	E2E Testing		PTR 3				
									Load Archetype Study	IP Filing		
									VVO Installation and Commissioning			
2020		IP Focus Grps			AMI Meter and Customer Portal Operations	E2E Testing		PTR 4				
									VVO Data Collection and M&V Preparation and Initiation			

Figure 2: Work Plan Summary

2.1 Major Task Activities

2.1.1 Advanced Metering Infrastructure

AMI deployment in Clifton Park replaced existing National Grid electric and gas meter reading and billing processes for customers that have not opted out of the Project. AMI meters are read and select portions of data are transferred over a cellular network to National Grid for utility billing. Portions of data are also transferred to the Project’s partners over secure networks to enable various elements of the Project, including the customer web portal. Interval data is used for PTR, customer billing, and to support authorized Project evaluation activities.

AMI deployment commenced at the end of the first quarter of 2017. Letters introducing Clifton Park customers to “Smart Energy Solutions,” the customer-facing name of the Project, and postcards alerting customers of the AMI installation timeframe were distributed prior to installations. This allowed for a period during which customers could opt out of the AMI metering technology, as well as certain other aspects of the Project.

Customers choosing not to have AMI installed were directed to a specialized team at the National Grid Contact Center, who informed Customer Meter Services (“CMS”) not to install AMI technology for those customers. Instead, the opt-out customers retained their existing meter (*i.e.*, automated

⁴ The effects of the COVID-19 pandemic may impact the Project schedule. As those impacts become better understood, the Company will adjust the schedule accordingly.

meter reading (“AMR”) meter or standard non-AMI meter). Additionally, during the Project term, customers may also have their AMI meter removed and replaced with an AMR meter at no additional cost.

The initial AMI opt-out rate was 8.8 percent, which equals approximately 1,256 premises. AMI meter opt-outs include customers who: 1) opted out through the National Grid Customer Contact Center; 2) informed CMS field workers in-person that they did not want the meter; or 3) were unable to provide access to the meter after three attempts by the Company without success.

National Grid continues to monitor AMI opt-outs throughout the term of the Project, as part of normal customer fluctuations in the Town (e.g., new growth and customers moving). The National Grid Customer Contact Center is also accepting customer requests to install or remove the AMI technology and process orders.

2.1.1.1 Information Technology Activities

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> Continued Project support via National Grid’s IT Support team. Successfully migrated from dedicated Multiprotocol Label Switching (“MPLS”) network to internet-based file transfer process, which aligns with vendor’s cloud-based data center. The data center transition is anticipated late summer /early fall 2020.

2.1.1.2 Meter Installation Activities

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> Continued to support business practices related to move-in/out of customers.

2.1.2 Volt/VAR Optimization Device Installations

National Grid will enhance the efficiency of the electric system through the installation of software and devices that better regulate the voltage of the distribution system. These system enhancements will benefit all customers connected to those substations being upgraded. Working with the Project’s VVO partner, Utilidata, National Grid started installing devices on the electric distribution system that monitor voltage along with advanced controllers for voltage regulators and reactive capacitors.

National Grid will evaluate the extent to which optimized regulation of the voltage and power factor of the electric distribution system benefits customers, ultimately reflected by improved feeder power factor, flatter voltage profiles, reduced feeder losses, reduced peak demand, and reduced energy consumption by customers. National Grid’s targeted efficiency gain through the VVO portion of the Project is approximately three percent.

VVO installation scope includes:

- Three substation transformer load tap changers;
- Eleven feeders, including:
 - Twelve line voltage monitors;
 - Thirty-one advanced switching capacitors; and
 - Five pole-top regulators;
- A central controller and data concentrator installed at the National Grid Control Center;
- Supervisory control via National Grid’s Supervisory Control and Data Acquisition (“SCADA”) and Energy Management System (“EMS”); and
- Cellular connectivity between all field, substation devices, and the data concentrator.

The VVO equipment is installed and commissioned. The Company also worked with Utilidata to resolve system instability created by consecutive tap failures by increasing polling intervals. The Company began M&V work in June, after it completed site-acceptance testing.

Timeframe	Completed Milestones
3rd Quarter 2020	• Data collected for M&V is currently being analyzed by 3 rd party.

2.1.3 Customer Outreach

National Grid has engaged residents of the Clifton Park community to learn about the Project and solicit input. The strategies include:

- Community outreach;
- Mail and bill inserts; and
- Web and social media.

Community Outreach

The National Grid marketing team performed studies of Clifton Park residential customers to assess areas of concern and to present recommendations. The studies were conducted by Market Probe moderators, a third-party market research group, via:

- Outreach sessions with Clifton Park residents in June 2018;
- Phone and online annual surveys; and
- Testimonial campaign with radio and billboard outreach launched in 2018.

Mail and Bill Inserts

Prior to the installation of AMI, National Grid delivered a set of communications via standard mailings to introduce Clifton Park customers to the Project and notify them of the imminent AMI technology. Customers were asked to contact National Grid if they did not want to receive a new AMI meter. Each letter spoke to the benefits of the Project and touched upon key Project elements available immediately and in the near future. The Company sent the communications as direct mail and bill inserts.

Thereafter, National Grid also sent a series of meter installation notifications letting customers know when the new meters would be installed. Included in the communications was an invitation to attend one of the Company's customer outreach and education meetings to learn more about the Project, ask questions, and interact with the National Grid team.

Following AMI meter installation, customers received educational materials focused on the various Project elements, such as enrolling in PTR. Bill inserts will continue to be incorporated four (4) times per year as Project elements are developed and implemented. The Company will also provide ongoing Project updates throughout the year using local media. Additionally, the Company created video tutorials that are posted on the National Grid website.

Web and Social Media

National Grid continues to expand the existing Clifton Park micro-site (<https://www.nationalgridus.com/Upstate-NY-Home/Energy-Saving-Programs/Clifton-Park>), a component of the Company's website (<http://www.nationalgrid.com>), to include information on the Project for Clifton Park residents.

The Project website includes the following information:

- Frequently Asked Questions video overview of the Project;
- Frequently Asked Questions pdf;
- Information about PTR;
- DER product and service options available (e.g., New York Solar Marketplace); and
- Updates throughout the year to announce the rollout of new products and services.

National Grid also proactively reviews publicly available social media information to join conversations regarding the Project and to help answer questions

The Company also tracks customer interaction with the Opower web portal as part of the Project. Emails, bill inserts, direct mailings, and social media contributed to raising awareness of the information available to customers, as evidenced by increasing levels of customer interaction throughout the PTR seasons. Customer outreach activities continue outside of the PTR season to encourage ongoing customer engagement.

Areas of the portal experiencing common customer interaction include:

- My Energy Use;
- Ways to Save;
- Compare My Bills;
- Dashboard; and
- Home Energy Audit.

The Company also created the following key performance indicators to track and measure the success of Customer Outreach:

- Customer Acceptance of AMI Technology;
- Awareness;
- Customer Control of Energy Usage;
- Customer Satisfaction with National Grid; and

- Portal Engagement (e.g., login creation, enrollment in PTR, and profile completion).

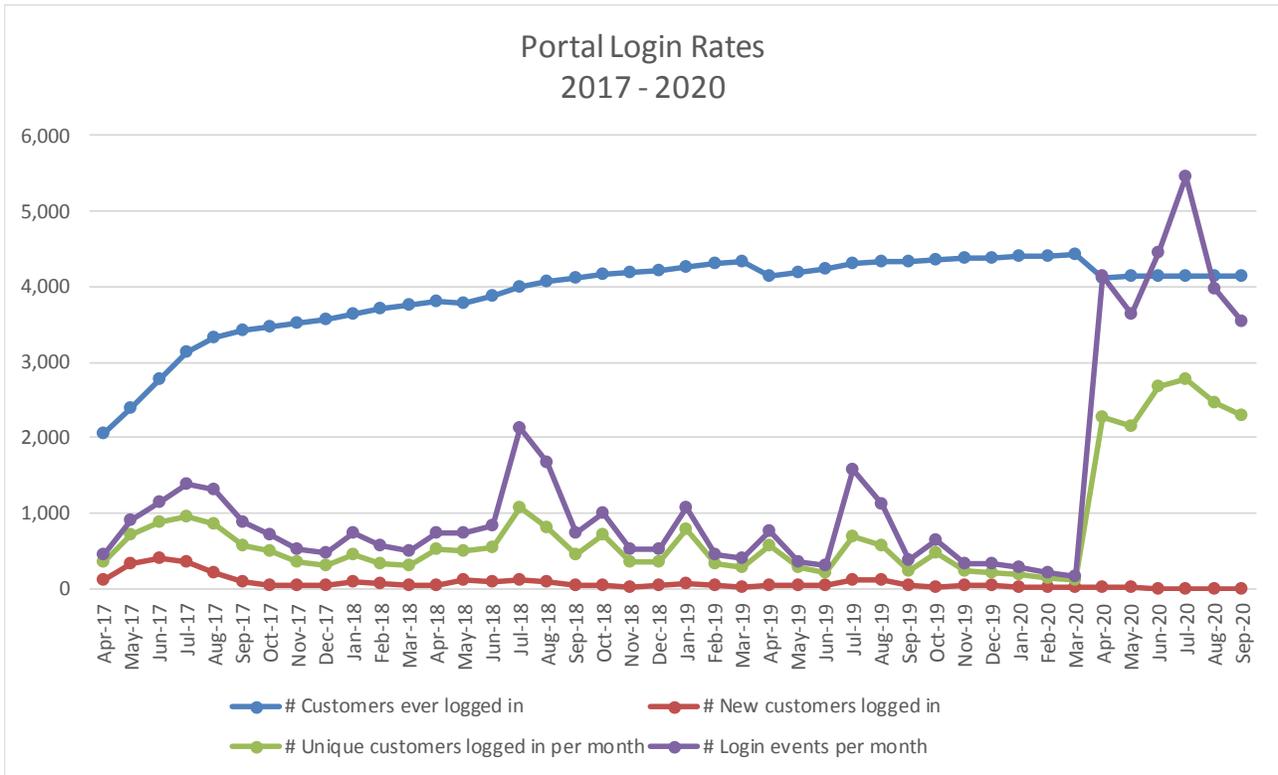


Figure 3: Portal Activity

Note: The Company recently learned that data collection methods to report Unique Logins Per Month (green) and Login Events Per Month (purple) were not identifying all web traffic for Clifton Park customers. The data have been updated for April 2020 to present. Future reports will include updated data for prior project years.

Timeframe	Completed Milestones
3rd Quarter 2020	• PTR pre-season letter deployed announcing start of PTR season 4.
	• Project communications updated with COVID-19 related language acknowledging customers may be home more using more energy.
	• Continued research on best practices for innovative pricing customer communications.

COVID-19 Related Communications

Project communications have been updated to acknowledge residential customers are likely spending more time at home and that is impacting their energy use.

2.1.4 Peak Time Rewards

National Grid seeks to incentivize Clifton Park customers to reduce electric use during specified peak times. Participating customers are rewarded for curtailing electric load through behavioral actions such as turning off lights, adjusting thermostats or using customer-controlled technology.

Key elements of PTR include:

- Event performance analytics performed on all customers with AMI;
- Pre-event and post-event email notifications;
- Rewards earned by those enrolled in “Points-and-Rewards”;
- Rewards awarded based on participation in up to twenty PTR events per year; and
- No penalties for failure to reduce load during PTR events.

National Grid reviews load forecasts for the New York Independent System Operator (“NYISO”) system and Zone F, which includes Clifton Park, as well as local Clifton Park weather forecasts, to determine whether to call a PTR event, also referred to as a “Conservation Day.”

PTR events are entered into two systems: one triggers event notifications to Clifton Park customers; and the other sets in motion the energy use predictive model, which will compare predicted values to actual AMI metered usage. The second system is used to determine curtailment participation. Over 8,000 pre-event emails notifying customers that a Conservation Day is scheduled are sent to Clifton Park customers for each event.

Once the Company determines the curtailment performance for the Conservation Day, each customer’s electric service account is assigned a value of “true” or “false” for each event, based on whether the customer curtailed during the event. Accounts enrolled in the Points-and-Rewards program which are assigned a value of “true,” are then awarded points. National Grid tracks customer enrollments in Points-and-Rewards as a measure of customer engagement – enrollment has increased each month as the Project has progressed.



Figure 4: Customers Enrolled in Points and Rewards

The Company implemented a fourth season of PTR/Points-and-Rewards during the summer of 2020 within the original Project budget. A summary of PTR year-over-year performance can be found as Appendix B. In addition, initial procurement discussions have taken place to assure continued operation of AMI and portal functionalities.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> • PTR summer 2020 was completed with 8 Conservation Days called. • PTR year-over-year performance can be found in Appendix B.

2.1.5 Advanced Analytics and Energy Forecasting

National Grid’s Advanced Analytics and Energy Forecasting team developed the residential energy use predictive model to determine the expected energy use during PTR events. The predictive model uses prior customer level energy consumption data and event weather conditions to predict customers’ energy consumption during events. The predicted values are compared to the actual AMI data to determine whether customers curtailed energy use and to ascertain which customers earned points. The results of the analyses are also used to determine if the aggregated community load meets certain threshold requirements for bidding into the NYISO wholesale electricity market. In addition, the Advanced Analytics and Energy Forecasting team has supported the development of innovative pricing rate designs.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> Continued to support normal business operations. Continued to develop innovative rates deployment strategy.

2.1.6 Time-of-Use Price Signals

As a result of the AMI collaborative, National Grid is continuing to look for opportunities to test innovative pricing rate designs using AMI infrastructure. The Company filed two proposals for rates to test in Clifton Park (see Case No. 19-E-0111). Work to refine the time-varying rate structures and the research methodology is ongoing.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> Continued strategic alignment of Clifton Park, AMI Business Case, and innovative pricing designs.

2.1.7 Distributed Energy Resource Opportunities

National Grid seeks to animate the market by facilitating DER provider opportunities as part of the Project. DER products and services will be opt-in offerings to customers, publicized via the customer engagement channels outlined above (e.g., the National Grid Marketplace and related Solar Marketplace). DER services may include energy efficiency, demand response, or renewable distributed generation opportunities. The Company is continuing to monitor the COVID-19 situation and adjust its proactive outreach and communications strategies with customers as necessary.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> Continued evaluation of DER promotions.

2.1.8 Community Choice Aggregation

In 2017 National Grid engaged Clifton Park officials and community members on potential adoption of a utility-supported CCA; however, the Town decided not to pursue the CCA option.

2.1.9 Project Management

A group of individuals in the Company work to manage the Project, keeping it on track regarding scope, schedule, and budget, while also lending visibility into processes, accomplishments, and financial tracking. The project managers regularly engage in and promote, the following:

- Weekly Core Team Status Reporting;
- Monthly General Staff Meetings;
- Quarterly Commission Reporting;
- Issue Tracking;
- Lessons Learned Recording and Review;
- Change Log Processes; and
- Financial Reporting activities.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> • Conducted weekly status reviews with core team leads, monitoring progress, providing corrective measure(s), and escalating issues, as needed.
	<ul style="list-style-type: none"> • Provided Project updates for management review.

2.1.10 Innovative Pricing

On February 14, 2019 and October 22, 2019, National Grid submitted proposals to implement an innovative pricing demonstration to leverage the status of the current Project (see Case No. 19-E-0111). The proposal, which includes draft tariff leaves, rate design options, and a related budget, remains pending before the Commission.

The Company has worked closely with Staff to develop a proposal for testing demand-based delivery rates based on the Standby rate design. However, at this time the Company intends not to pursue the project actively on the basis that the Commission is separately considering a Standby rate package, which will be available to residential customers. The Company anticipates action on such a rate package could occur in Spring 2021 or thereafter.

Timeframe	Completed Milestones
3rd Quarter 2020	<ul style="list-style-type: none"> • Continued work to identify and design potential innovative pricing rate and test scenarios.

2.2 Challenges, Changes, and Lessons Learned

Qtr	Issue or Change	Resulting Change to Project Scope/Timeline?	Strategies to Resolve	Lessons Learned
Q3.20	A previous event file was transmitted for distributed rewards.	Some customers did not receive their appropriate reward until after correction was made.	Accurate data was transmitted to resolve. Analysis of impact was made. All customers made whole.	Event protocols need to assure previous event files are cleared from server in preparation of next event.
Q3.20	Gas ERTs deployed in Clifton Park will cease being manufactured in 2021.	Near term strategy for projected replacement ERTs by model comparing current inventories to projected need.	Projected 5-year need based on industry failure rates; and compared to current inventories.	ERT models have various rates of inventory. Also, ERTs supporting AMR infrastructure can be encrypted to support cellular AMI infrastructure.

3.0 Next Quarter Forecast

During the fourth quarter of 2020, the Project team will develop a strategic plan for program operations for 2021 (e.g., another season of PTR and potential other promotions). The Project team will continue to develop plans related to scope, schedule, budget, and resources for testing rate designs. The Company will also continue to monitor potential COVID-19 related impacts and adjust, as necessary, any customer communications.

3.1 Check Points/Milestone Progress

3.1.1 Summary

Checkpoint/Milestone	Anticipated Start-End Date	Revised Start-End Date	Status
1B Phase 1: Network Configuration and Meter Deployment	1/2/17 – 6/16/17	1/2/17 - 7/17/17	Complete
1B PTR Operations	7/1/17 - 9/30/19	7/1/17 – 9/30/21	
2 Phase 2: VVO; REV Operations and Evaluation	6/19/17 – 3/31/20	6/19/17 – 3/31/21	
3 Phase 3: Project Wrap-up	10/1/19 – 9/30/20	10/1/2020 – 3/31/2021	
4 Phase 4: Innovative Pricing	9/1/20- 7/1/2024	4/1/2021 -	
Key  On-Track  Delayed start, at risk of on-time completion, or over-budget  Terminated/abandoned checkpoint			

3.1.2 Work Stream – 4th Quarter 2020

Work Stream	Future Milestones	Status
IT	<ul style="list-style-type: none"> Support Project via National Grid's IT Support team. Meter Data Management System (MDS) upgrade 	
AMI	<ul style="list-style-type: none"> Support normal business practices related to move-in/out of customers. 	

Work Stream	Future Milestones	Status
VVO	<ul style="list-style-type: none"> • Continue study to evaluate overall system performance, leveraging AMI data for additional efficiencies. • VVO site acceptance testing, followed by initiation of M&V period. 	
Customer Outreach	<ul style="list-style-type: none"> • Continue customer communications and education engagement. 	
PTR	<ul style="list-style-type: none"> • Develop plans for future PTR offerings. 	
Advanced Analytics and Energy Forecasting	<ul style="list-style-type: none"> • Provide continued support to Project team. • Prepared to calculate PTR curtailment results. 	
TOU Price Signal	<ul style="list-style-type: none"> • Not pursued under initial Project; however, Project team anticipates transition to innovative pricing. 	
DER	<ul style="list-style-type: none"> • Not continued due to anticipated transition to innovative pricing. 	
Project Management Group	<ul style="list-style-type: none"> • Conduct weekly Project update meetings. 	
	<ul style="list-style-type: none"> • Monitor and report Project key performance indicators. 	
	<ul style="list-style-type: none"> • Continue tracking, monitoring and controlling the Project schedule, tracking on a weekly basis. 	
	<ul style="list-style-type: none"> • Continue tracking, monitoring and controlling the Project financials, tracking on month-by-month basis. 	
	<ul style="list-style-type: none"> • Continue to identify, monitor and manage risks and issues as they arise. 	
Project Evaluation	<ul style="list-style-type: none"> • Work with AMI team on future rate structure strategies. 	
	<ul style="list-style-type: none"> • Develop Project evaluation plan. • Evaluate additional AMI data analytics to capitalize on availability of meter data. 	

4.0 Work Plan and Budget Review

4.1 Updated Work Plan

YEAR	CY QTR 1			CY QTR 2			CY QTR 3			CY QTR 4		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2020										AMI Meter and Customer Portal Operations		
										VVO Data Collection and M&V Prep		
2021										AMI Meter and Customer Portal Operations		
				E2E Testing			PTR 5					
				Innovative Pricing strategy and planning								
										VVO M&V		

Figure 5: Current Year Work Plan

Figure 5 represents the work plan for the Project. AMI meters and the customer portal will remain operational, PTR operations will continue, and VVO data collection will commence to support measurement and verification efforts.

4.2 Updated Budget

	3rd Qtr 2020 Actual Spend	Project Total Spend to Date	Project Initial Budget	Revised Budget	Remaining Balance
CAPEX	-	8,694,206	12,516,057	8,766,057	71,851
OPEX	306,817	9,744,146	14,437,176	13,936,353	4,192,207
TOTAL		18,438,352	26,953,233	22,702,410	4,264,058

Note: Total spend includes 2019 payment of \$432,736 for software services through March 31, 2021 to support the customer portal and PTR.

5.0 Progress Metrics

Checkpoint ⁵	Progress / Target Completion
Infrastructure	
AMI Acceptance vs. Opt Out	Continuing to monitor opt-out rates as Project progresses, and through the life of the Project. Current opt-out rate is 8.8 percent.
VVO System Benefits	Established infrastructure required to enact VVO and monitor progress. Equipment installation and commissioning completed. Initiated VVO evaluation period.
Customer Outreach and Engagement / Deep Energy Insights and Actionable Information	
Customer Outreach and Engagement	Continuing engagement through life of the Project. Annual surveys tracked against initial baseline survey.
Customer Energy Portal Engagement	Continue customer engagement metrics related to portal use, PTR participation, etc.
Price Signals	
PTR	Began PTR in July 2017; continue evaluation through life of the Project regarding participation rates and curtailed load.
TOU Price Signal	Strategic transition to innovative pricing demonstration.
DER	
DER Opportunities	Promotion of Connected Solutions demand response and related technologies, National Grid's Solar Marketplace, and energy efficient pool pumps and pool pump timers.

⁵ See Implementation Plan at pages 24-26, for specific metrics.

6.0 Appendix A – One Page Summary



Clifton Park REV Demo

09/30/2020 (Q3 2020)

Overall Status (Active)

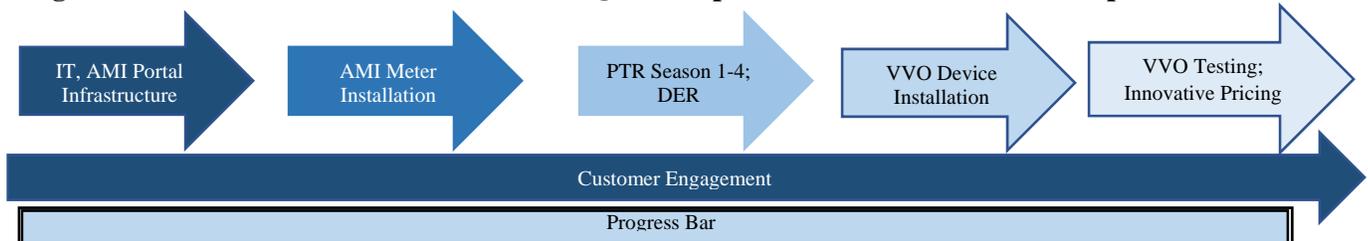
Project Start Date: 01/17/2017

Project End Date: 03/31/2021 for initial phase

Budget: \$22,702,410

Current Quarter Spend: \$306,817

Cumulative Spend: \$18,438,352



Project Summary: Address REV principles to reduce peak demand, increase DER adoption and give customers greater insight into their energy usage so they can make more informed energy decisions. Primary deliverables include: installation of approx. 13,300 AMI electric meters and 11,500 gas ERTs, energy management education and engagement; implementation of a Peak Time Rewards (PTR) program; improve system-wide efficiency. Partners include Itron, Opower/Oracle, Utilidata; vendors include Wipro, Verizon, Navigant. A petition proposing transitioning the Project into an innovative pricing REV demonstration project was filed October 22, 2019.

Cumulative Lessons Learned		
The Customer	Market Partner	Utility Operations
<ul style="list-style-type: none"> Customer participation has been moderate despite specific marketing campaigns and customer outreach meetings. Meter acceptance rate > 90% Portal usage is at ~24% Points-and-rewards enrollment ~16% 	<ul style="list-style-type: none"> DER promotion dependent on available information to disseminate (e.g., Solar Marketplace launch). Partner system restrictions limit availability to deliver PTR. 	<ul style="list-style-type: none"> Meter deployment was challenged by temporary workforce hiring. VVO construction was challenged by reallocation of resources due to storm duty obligations.

Application of lessons learned: National Grid is aligning its AMI opportunities in Clifton Park with its broader AMI Business Case through its proposal to transition Clifton Park into an innovative pricing REV demonstration. An innovative pricing demonstration will include omni-channel marketing, multiple touch-point customer engagement, along with an enhanced customer portal to deliver the benefits of AMI technology to better manage energy usage and succeed on innovative pricing designs.

Issues Identified: Rewards-type structure is not sustainable and does not align with other regulatory initiatives. Innovative pricing structures and research design not finalized.

Solutions Identified: VVO M&V data currently being analyzed. PTR rewards points has been extended for another summer to bridge build of innovative pricing structures and delivery.

Recent Milestones/Targets Met: PTR summer 2020 has completed.

Upcoming Milestones/Targets: Develop innovative pricing strategy.

COVID-19: Enacted Business Continuity Plan March 12; monitoring vendor/load impacts; adjusting communications.

7.0 Appendix B – PTR 2020 Summary

ORACLE



Peak Time Rewards Results

National Grid – Clifton Park



Mary Claire Moran

October 2020





COVID-19 and Customer Usage Patterns

Learnings from the July 31, 2020 Opower COVID-19 Live Update



Trends across US service territories

It's a warm summer in many service territories

Temperatures are high, contributing to higher usage and peak usage

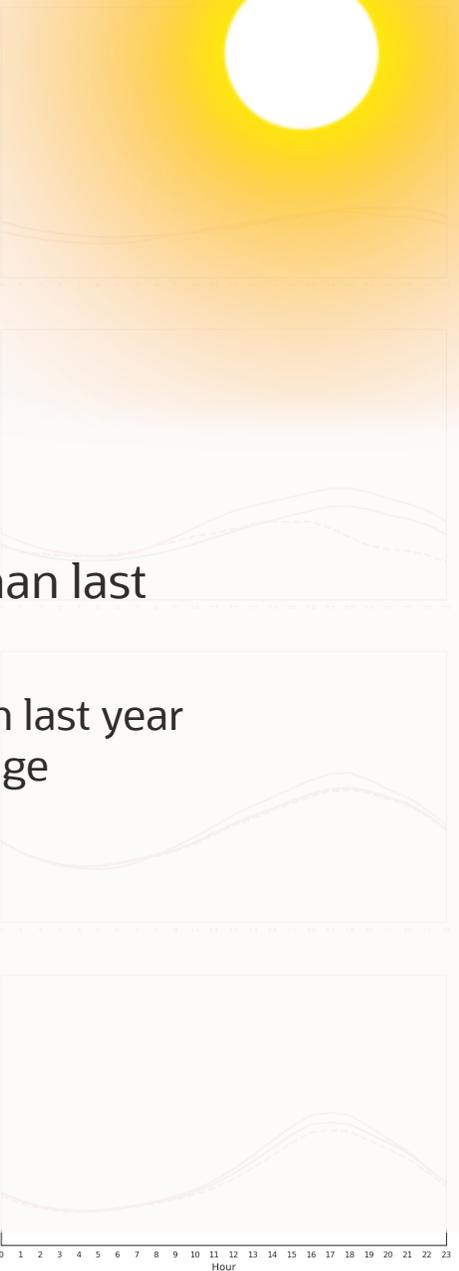
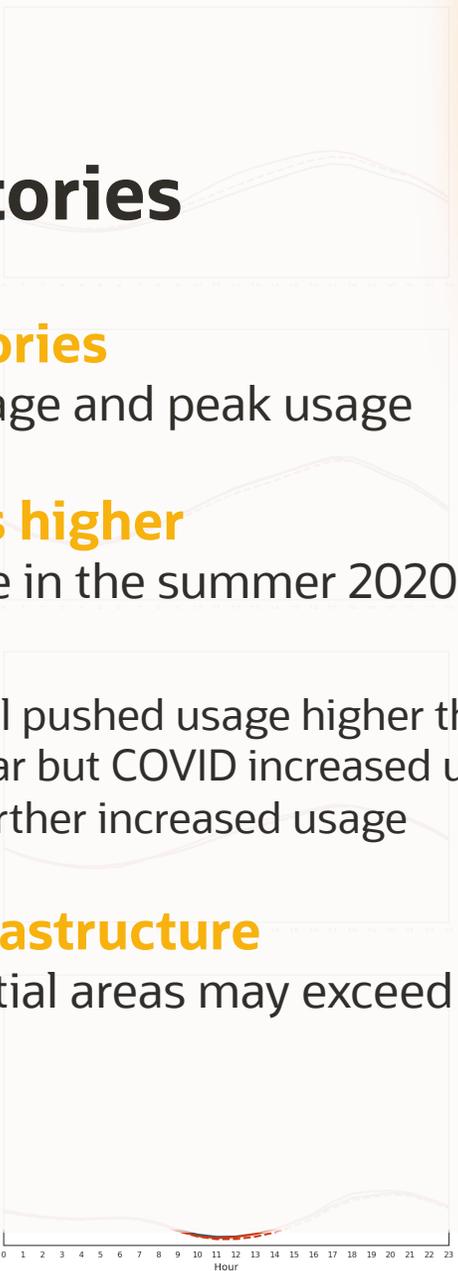
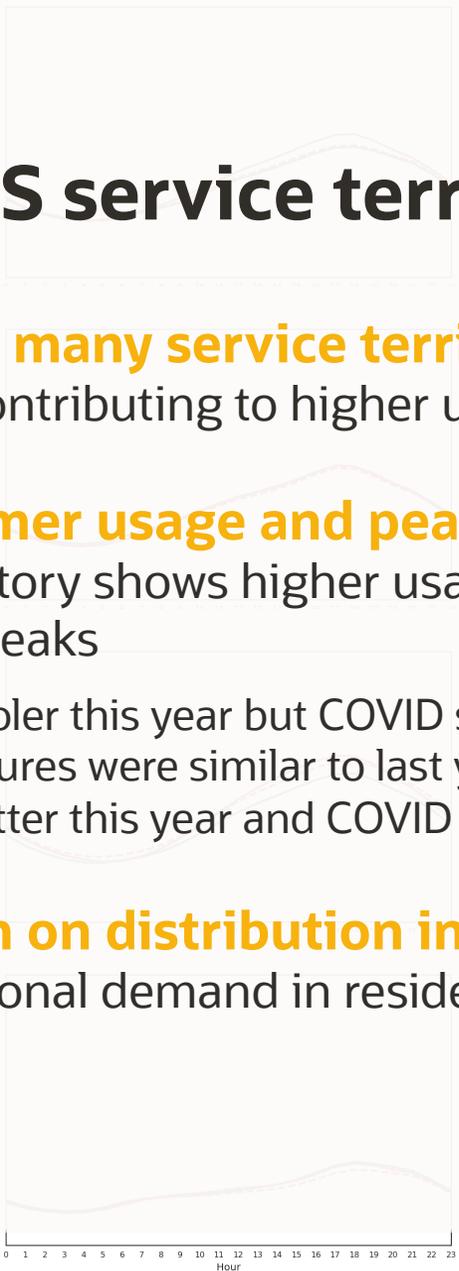
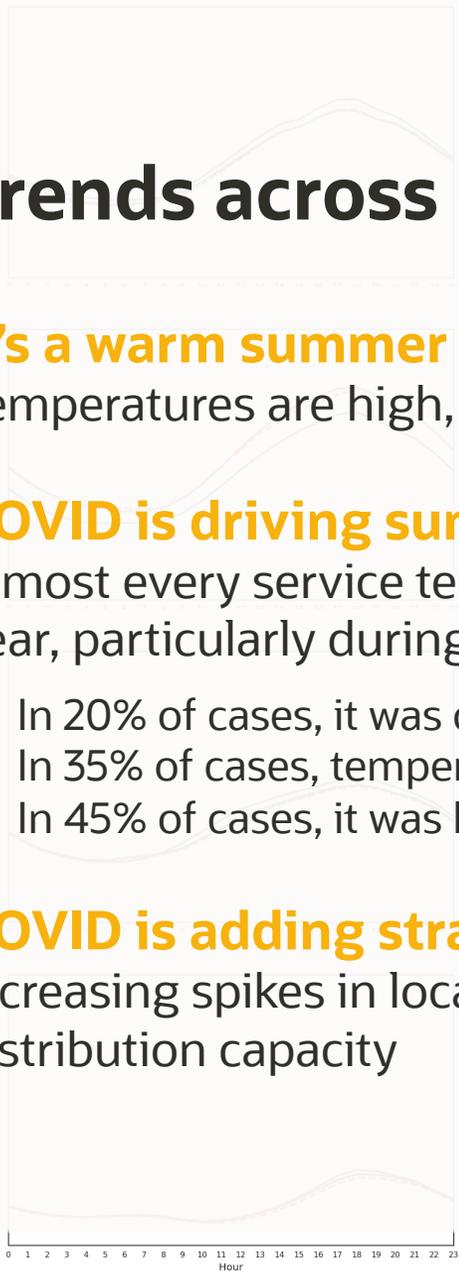
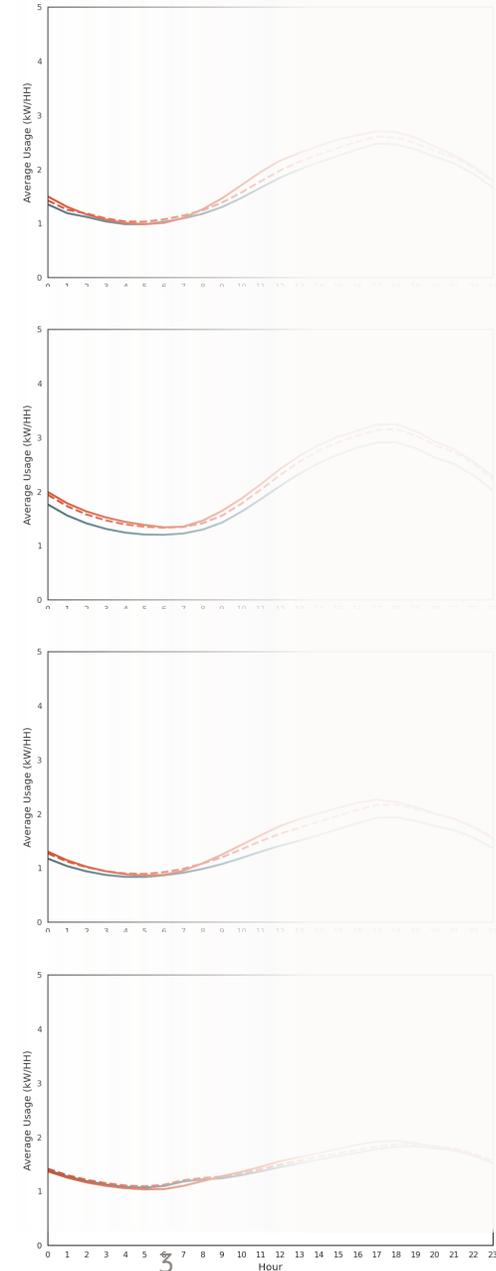
COVID is driving summer usage and peaks higher

Almost every service territory shows higher usage in the summer 2020 than last year, particularly during peaks

- In 20% of cases, it was cooler this year but COVID still pushed usage higher than last year
- In 35% of cases, temperatures were similar to last year but COVID increased usage
- In 45% of cases, it was hotter this year and COVID further increased usage

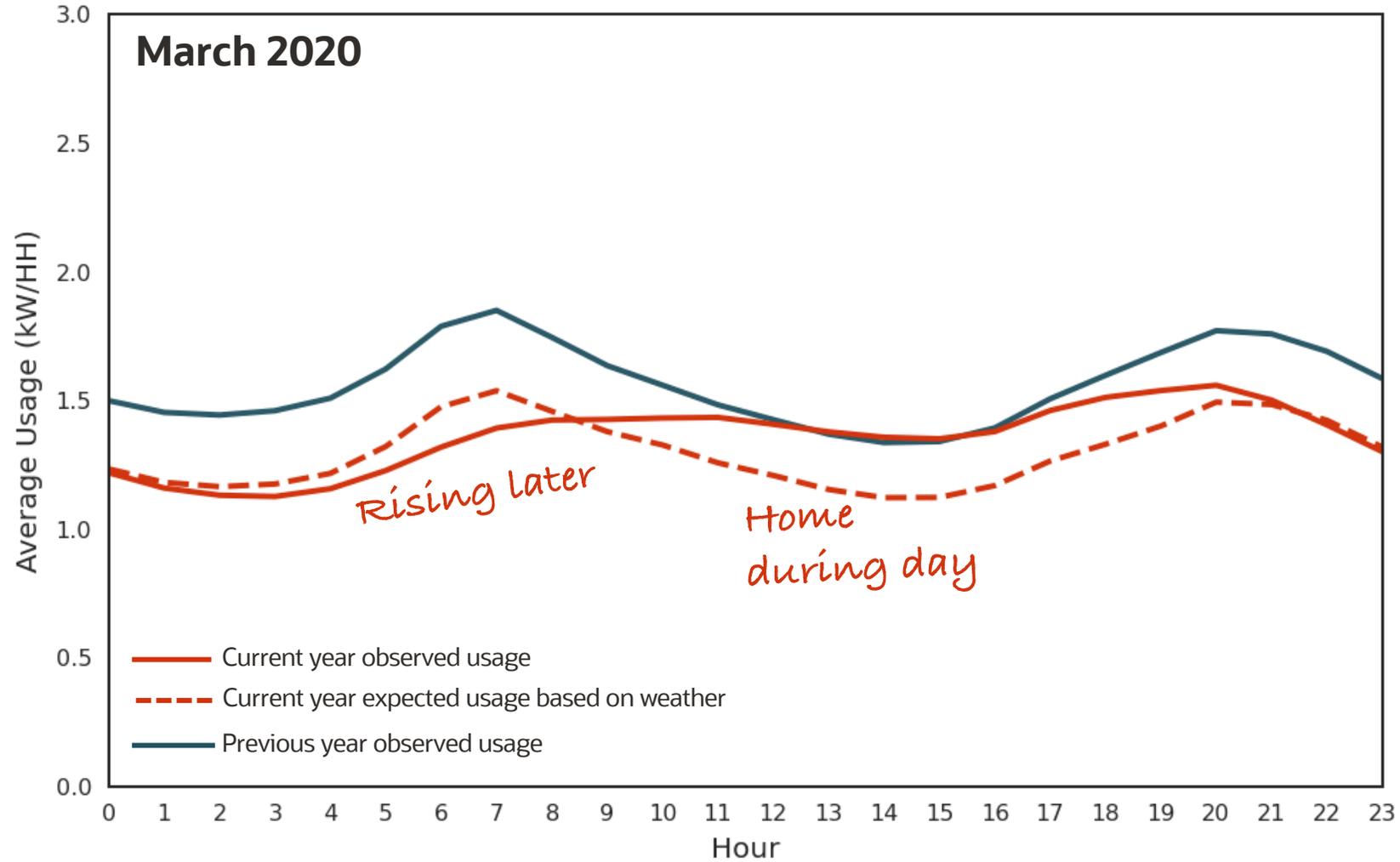
COVID is adding strain on distribution infrastructure

Increasing spikes in locational demand in residential areas may exceed distribution capacity



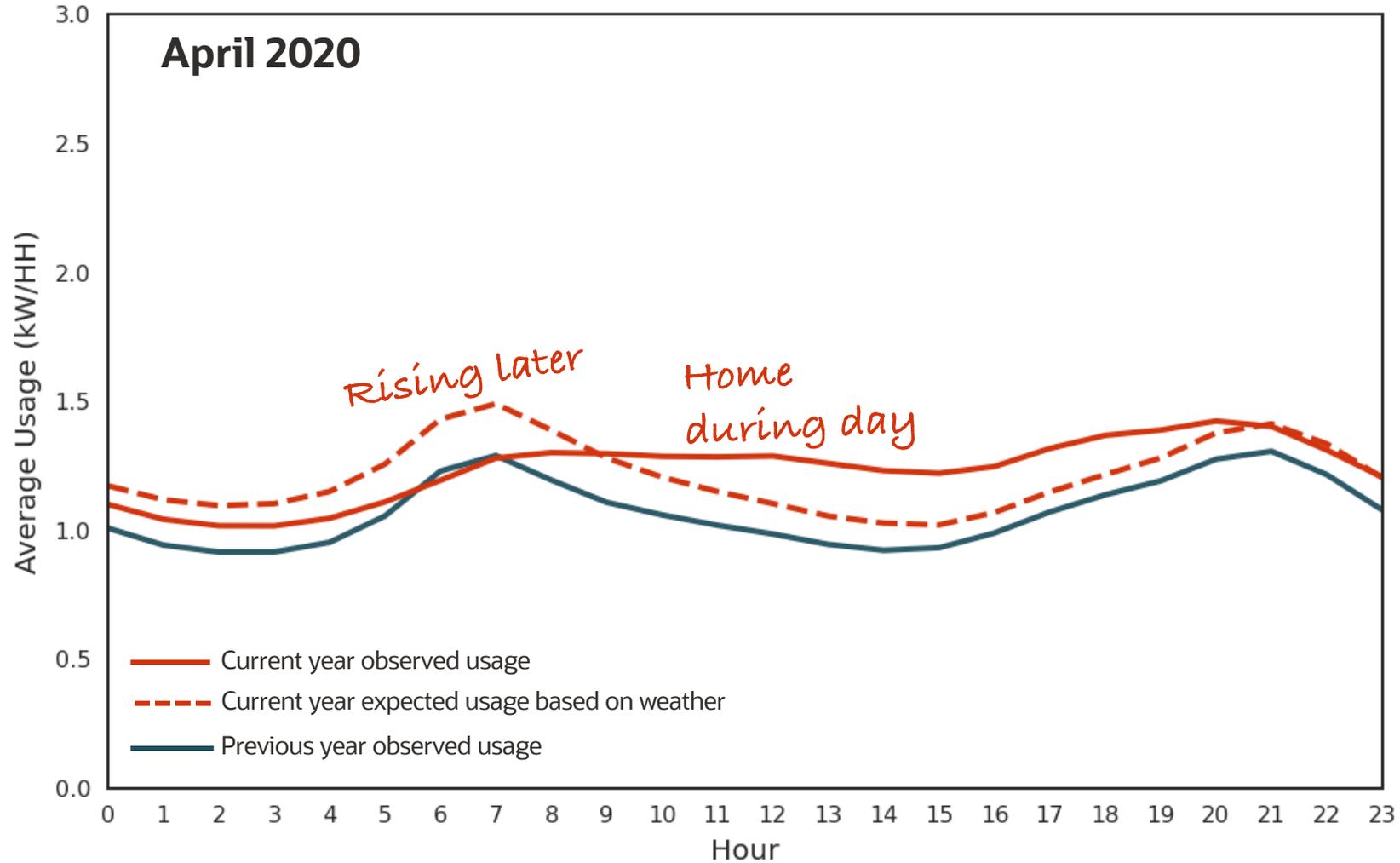
Midwest electric utility A

Average residential usage by hour of day



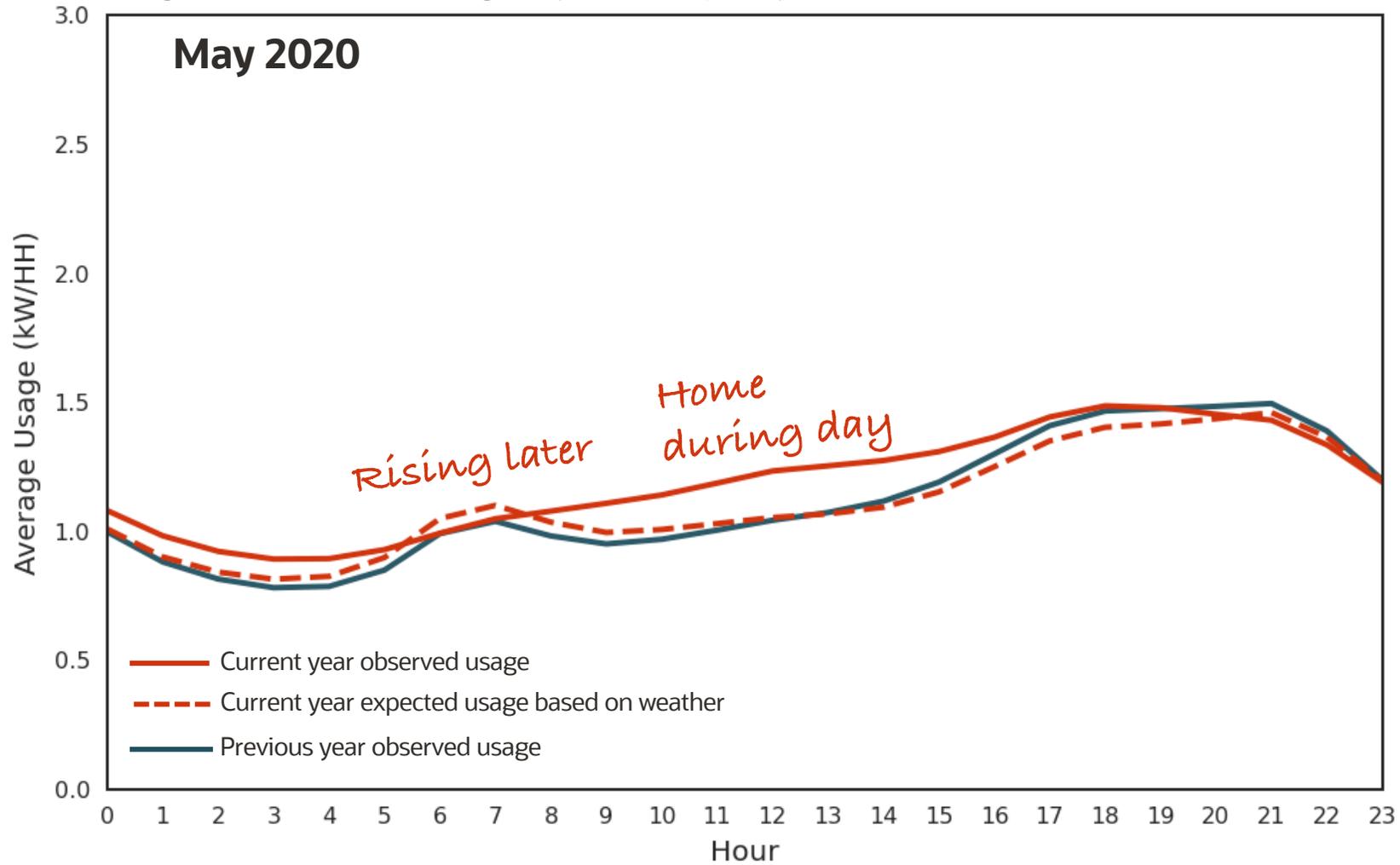
Midwest electric utility A

Average residential usage by hour of day



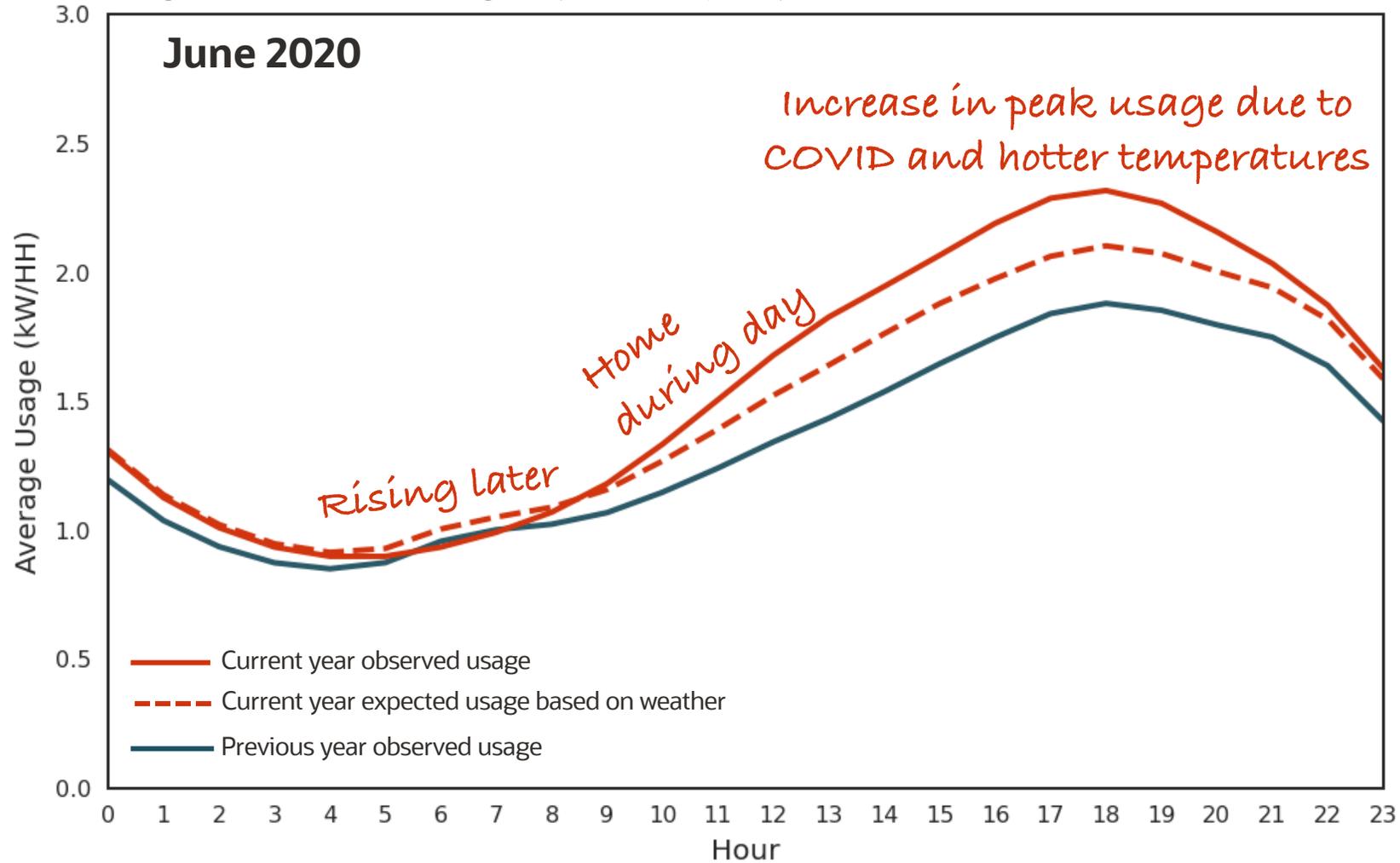
Midwest electric utility A

Average residential usage by hour of day



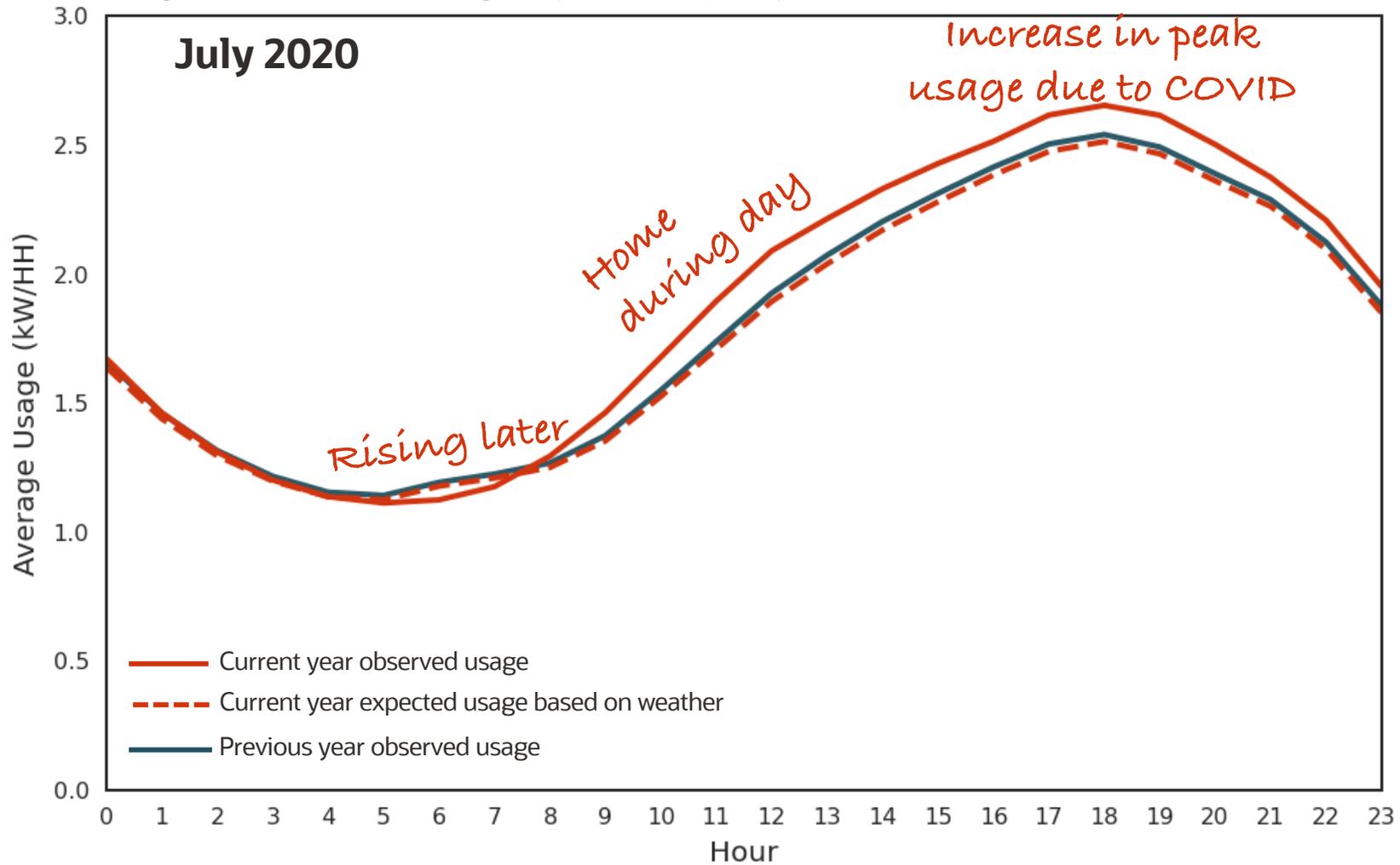
Midwest electric utility A

Average residential usage by hour of day

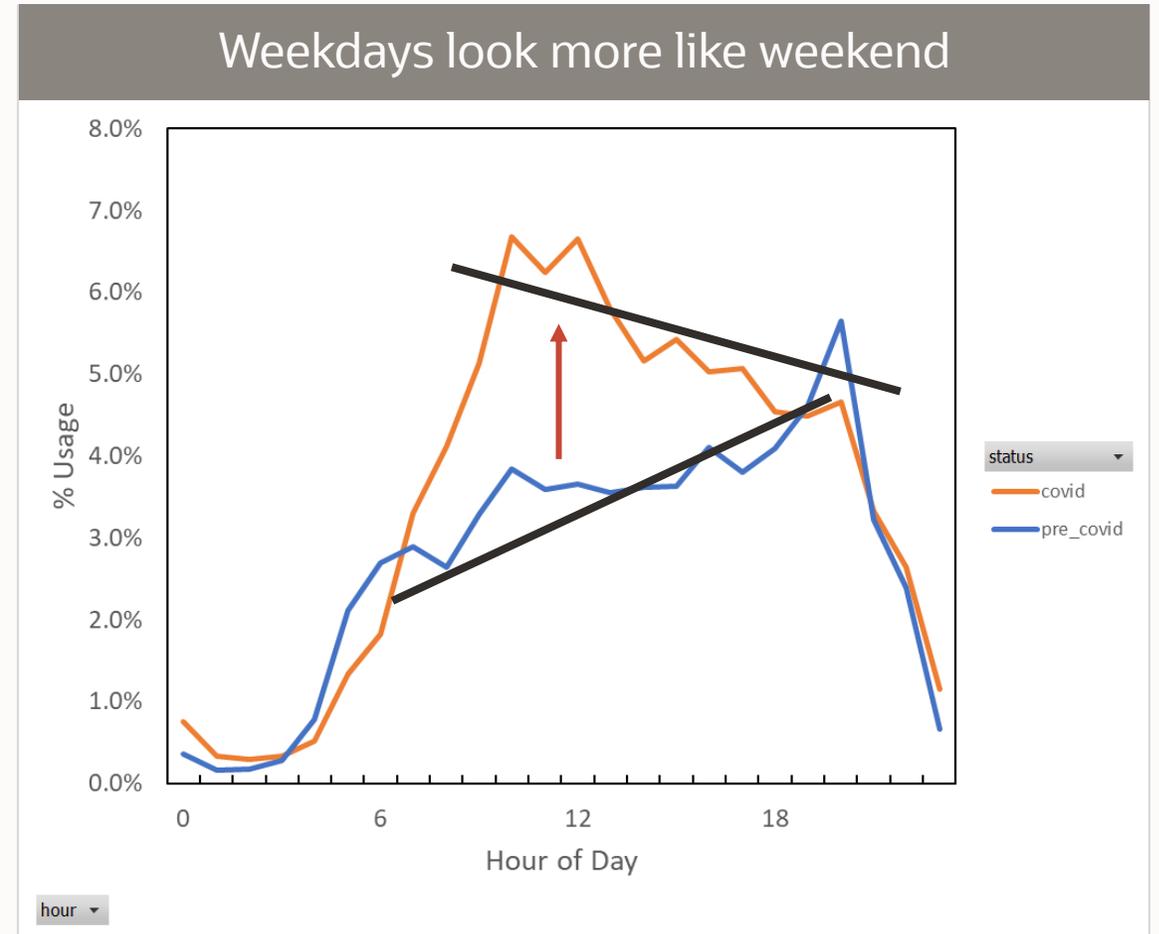
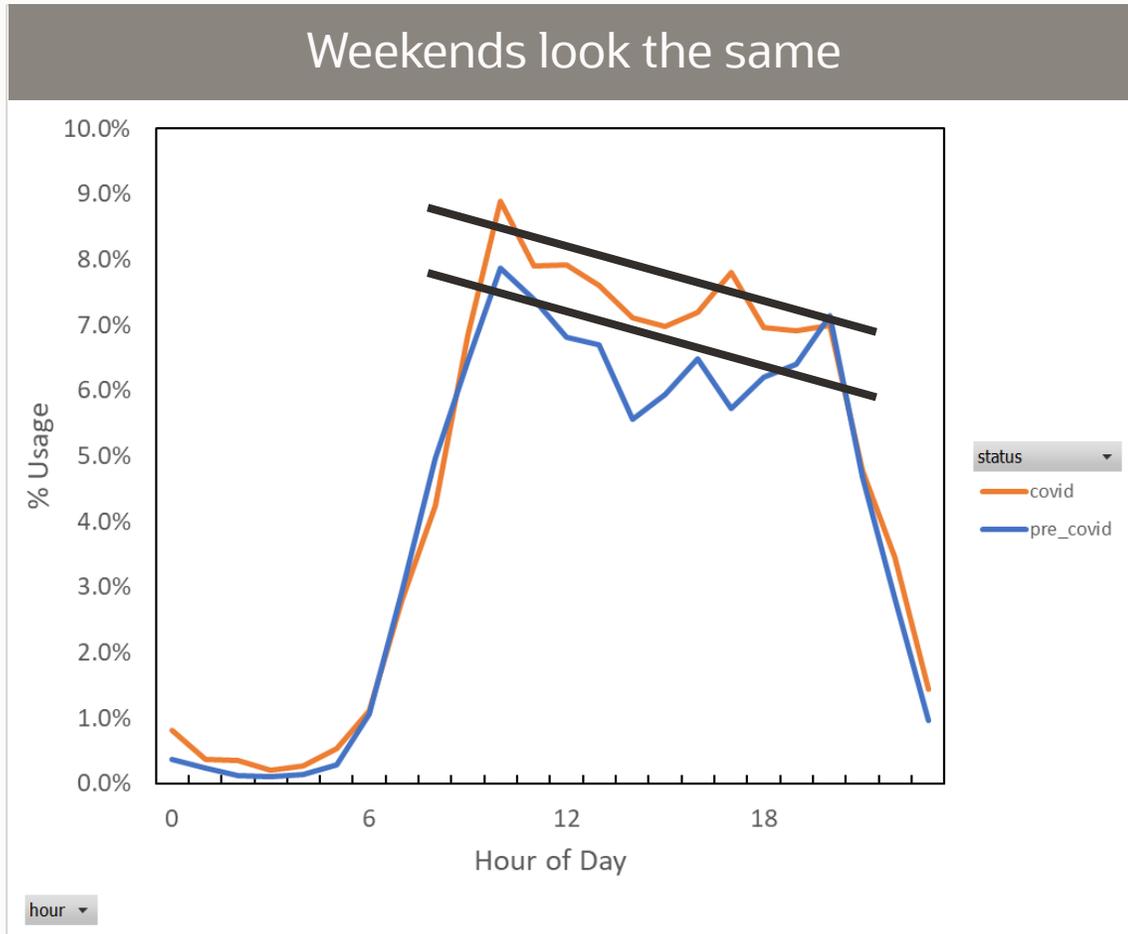


Midwest electric utility A

Average residential usage by hour of day



The “Sweatpants Effect”

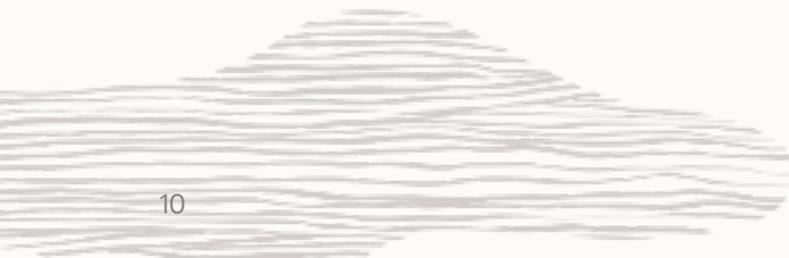
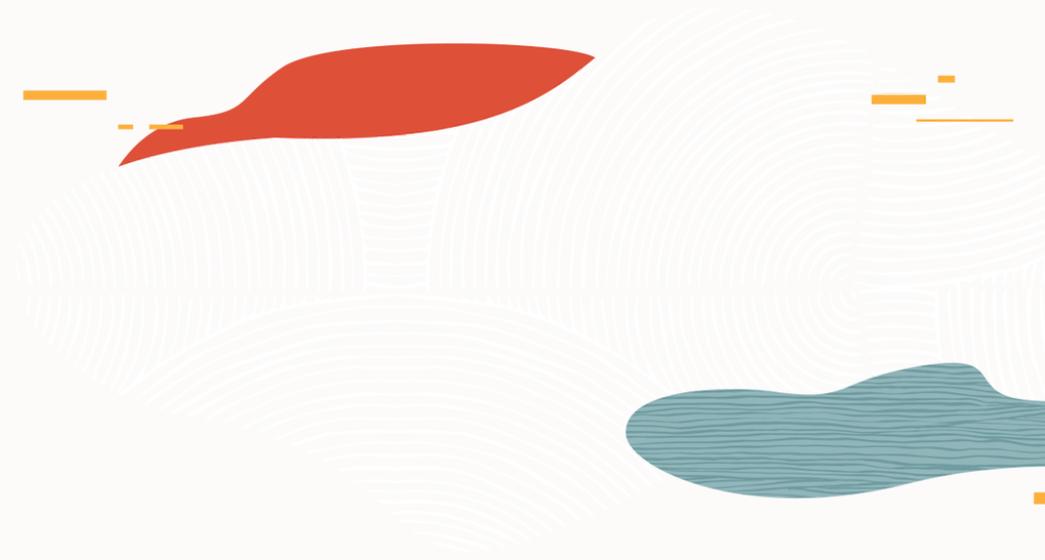


Lines graphs are deep learning modeled data (East Coast) month over month.



ORACLE

2020 Season



2020 Season and COVID-19

- This was an atypical season due to COVID-19 since the way that customers use energy throughout the day has changed due to social distancing
- Updated language in the outbound comms to be sympathetic to the challenges of COVID-19 and more time spent at home
- Non-COVID friendly tips were suppressed by Opower (not CDC compliant, not social distancing)
- COVID-19 caused increased electric usage through out Summer 2020

Pre-Season Welcome Letter

nationalgrid

1 Willow Street, Suite 2
Southborough, MA 01772-1028

<MONTH XX, XXXX>

<ADDRESS_LINE_1>

<ADDRESS_LINE_2>

<ADDRESS_LINE_3>

Get rewarded for saving energy on Conservation Days

As a participant in Smart Energy Solutions, you're invited to join your community in saving energy on Conservation Days this summer.

With more people staying close to home right now, we know it may be challenging to use less energy on Conservation Days this summer. But, when you do, not only will you be helping the environment, you'll also be eligible to earn points to redeem for eGift cards at places like Target, Amazon, Starbucks, and more. And, because it's a bigger challenge this year, your points can add up even faster: **Use less energy, earn 100 points; use considerably less energy and earn 500 points.**

Make sure you're signed up for our Points and Rewards program so you don't miss out on your points. Here's how:

1. Log in or create an account at ngrid.com/uny-rewards.
2. Select "Saving Tips & Rewards."
3. Select "Get Rewards" then click the "GET STARTED" button.

Happy saving!

Saving on Conservation Days is easy. Participate with these simple steps:

Before:

Look out for notifications
We'll notify you via email to let you know about the upcoming Conservation Day.



During:

Lower your use
Take simple steps, like those on the back of this report, to lower your use.



After:

See how you did
A few days later, we'll let you know whether you saved energy and earned points.



Flip this letter over for your Conservation Day savings plan ➡

NGrid_0020_WELCOME_LETTER_DFP3

ngrid.com/uny-rewards | 1-877-466-3433 (Monday-Friday, 8am-5pm)

Here's how you can save on Conservation Days

A Conservation Day is a summer day predicted to be extra hot, leading to higher-than-normal energy use. Lowering your energy use on Conservation Days will keep costs down and contribute to a greener community. Your participation in the Conservation Day program is optional, but each small step you take can have a significant environmental impact.



Spend time outside to stay cool

One of the easiest and most effective ways to reduce your home's electricity use during conservation days is to spend some of that time outside. We know sticking close to home makes that challenging, but try some of these fun backyard or front-stoop activities:

- Spread a blanket in the shade and play cards or board games.
- Fire up the grill for a backyard picnic (don't forget the popsicles!).
- Break out colored chalk for a sidewalk art competition.

While you're outside, make sure to raise your thermostat by 10°F.



Use fans and reduce air conditioning

During Conservation Days, when electricity demand is high, the need to stay cool tends to increase as well. Small actions during conservation days can have big impacts.

Most people find they can raise the thermostat temperature by 3-4°F and still stay comfortable. Close curtains and blinds to keep sunlight from entering your home and stay close to fans instead of using air conditioning to keep cool.



Put off household chores

Appliances can account for up to 20% of total energy use in a typical household and can unintentionally heat up your home.

To help your community save energy on Conservation Days, try steps like running the dishwasher after conservation hours or doing laundry on the weekends. You can also talk with your household to make plans for Conservation Days and identify what other appliance-related chores you can postpone.

▶ To find even more ways to save, visit ngrid.com/uny-savings-tips.

Pre Event Message

nationalgrid

Jane Doe
Acct # 22

We're expecting high energy demand today.
Help conserve energy by reducing usage during peak hours.

November 10
12pm - 1pm



These days we're all spending more time at home – and using more energy. By shifting the time you use energy during the hottest days of summer you can manage your energy costs, reduce stress on the grid to benefit the community, and earn points in our Points and Rewards program, redeemable for eGift cards.

This summer, we want to help you prepare for days when energy demand is expected to peak while you enjoy the safety and comfort of your home.

Use less energy today to earn **100 points**; use considerably less energy and earn **500 points**

But you have to sign up to get your points! Here's how:

- 1 Log in or [create an account](#).
- 2 Select "Savings Tips & Rewards."
- 3 Select "Get Rewards" then click the "GET STARTED" button.

What's a Conservation Day?

A Conservation Day is a summer day that is likely to be extra hot, which means people will be using more energy than normal. By lowering your use on Conservation Days, you can keep costs down and contribute to a greener community.

Ways to Save



Close window shades and blinds

Sunlight passing through windows heats your home and makes your AC work harder. You can block this heat by closing your window blinds or drapes. Then raise your AC temperature by 3-4°F to save electricity.



Use fans and reduce air conditioning

Fans can help you beat the heat while reducing your AC needs. Every degree counts. Raise your thermostat's setting by 3-4°F during a Conservation Day and stay close to fans to help keep cool while lowering your electricity use.



Enjoy unplugged activities

Put off running the dishwasher or doing laundry until after the Peak Event. Instead of watching TV or using electronics that need to be plugged in, read a book, play a board game, or spend quality time with your household.

[SEE MORE WAYS TO SAVE](#)

Open only to current National Grid customers in New York who have a valid email address and are at least 18 years of age. Rewards available only while supplies last. This program and any reward offered are void where prohibited by law. For more information, see the Terms of Service.

Have questions? Call 1-800-664-6729 (Monday-Friday, 8am-5pm)

[Unsubscribe from these emails](#)

National Grid
National Grid NY Home Energy Reports
1 Willow Street, Suite 2
Southborough, MA 01772-1026

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Post Event Messages

nationalgrid

Jane Doe
Acct # ****0000

Great work!

You used less energy on the last Conservation Day, from 1pm to 7pm on June 11, and now have 100 more points in your National Grid [Points and Rewards account](#).



Be on the lookout in your inbox for the next Conservation Day, so you can keep earning points and helping the environment.

Want to keep saving energy in the meantime?

[SEE MORE WAYS TO SAVE](#)

Your points may take up to 1 week to appear in your National Grid Rewards account. Open only to current National Grid customers in New York who have a valid email address and are at least 18 years of age. Rewards available only while supplies last. This program and any reward offered are void where prohibited by law. For more information, see the Terms of Service.

Have questions? Call 1-800-664-6729 (Monday-Friday, 8am-5pm)

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nationalgrid

DANIEL HEATH
Acct # *****0666

Your Conservation Day results

On the last Conservation Day, from 2pm to 6pm on July 3, you didn't save enough energy to earn points in our Points and Rewards program; but don't worry, you'll have another opportunity.

More Conservation Days are coming!

We'll give you a heads up in your inbox when the next Conservation Day is on the way.

How do we award points?

We compare how much energy your household is likely to use during the Conservation Day, based on past use and factors like the weather. Points are awarded to homes using less energy than expected.

Ways to save on Conservation Days

- Close window shades and blinds**
Sunlight passing through windows heats your home and makes your AC work harder. You can block this heat by closing your window blinds or drapes. Then raise your AC temperature by 3-4°F to save electricity.
- Use fans and reduce air conditioning**
Fans can help you beat the heat while reducing your AC needs. Every degree counts. Raise your thermostat's setting by 3-4°F during a Conservation Day and stay close to fans to help keep cool while lowering your electricity use.
- Enjoy unplugged activities**
Put off running the dishwasher or doing laundry until after the Peak Event. Instead of watching TV or using electronics that need to be plugged in, read a book, play a board game, or spend quality time with your household.

[SEE MORE WAYS TO SAVE](#)

[View your rewards account](#)

Open only to current National Grid customers in New York who have a valid email address and are at least 18 years of age. Rewards available only while supplies last. This program and any reward offered are void where prohibited by law. For more information, see the Terms of Service.

Have questions? Call (877) 620-1930 (Monday-Friday, 8am-5pm)

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National Grid
National Grid NY Home Energy Reports
40 Washington Street, Suite 2000
Westborough, MA 01581-1068

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nationalgrid

COBURG VILLAGE
Acct # *****0613

Your Conservation Day results

On the last Conservation Day, from 2pm to 6pm on July 2, you didn't save enough energy to earn points in our Points and Rewards program. But don't give up, more Conservation Days are coming!

Did you know?

You can earn points for reducing energy use on Conservation Days, with National Grid's Points and Rewards program. Use less energy and earn 100 points; use considerably less energy and earn 500 points—then redeem your points for eGift cards.

Here's how to sign up, so you don't miss out on future opportunities to earn points:

- 1 [Log in or create an account.](#)
- 2 [Select "Savings Tips & Rewards."](#)
- 3 [Select "Get Rewards" then click the "GET STARTED" button.](#)

How do we award points?

We compare how much energy your household is likely to use during the Conservation Day, based on past use and factors like the weather. Points are awarded to homes using less energy than expected.

Ways to save on Conservation Days

- Close window shades and blinds**
Sunlight passing through windows heats your home and makes your AC work harder. You can block this heat by closing your window blinds or drapes. Then raise your AC temperature by 3-4°F to save electricity.
- Use fans and reduce air conditioning**
Fans can help you beat the heat while reducing your AC needs. Every degree counts. Raise your thermostat's setting by 3-4°F during a Conservation Day and stay close to fans to help keep cool while lowering your electricity use.
- Enjoy unplugged activities**
Put off running the dishwasher or doing laundry until after the Peak Event. Instead of watching TV or using electronics that need to be plugged in, read a book, play a board game, or spend quality time with your household.

[SEE MORE WAYS TO SAVE](#)

Open only to current National Grid customers in New York who have a valid email address and are at least 18 years of age. Rewards available only while supplies last. This program and any reward offered are void where prohibited by law. For more information, see the Terms of Service.

Have questions? Call (877) 620-1930 (Monday-Friday, 8am-5pm)

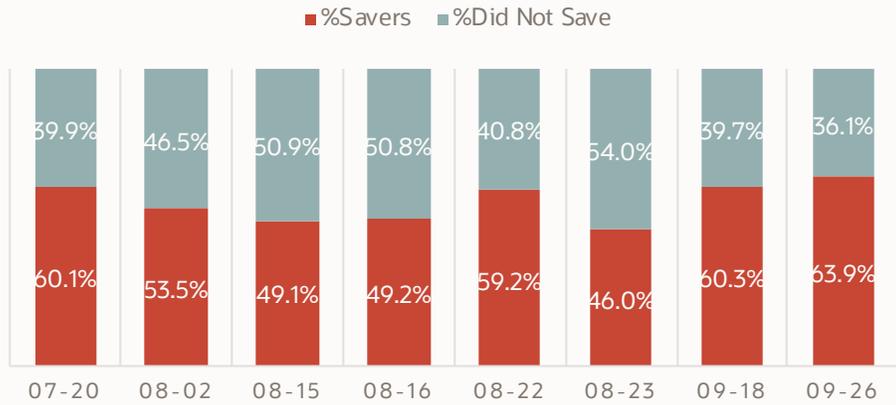
[Unsubscribe from these emails](#)

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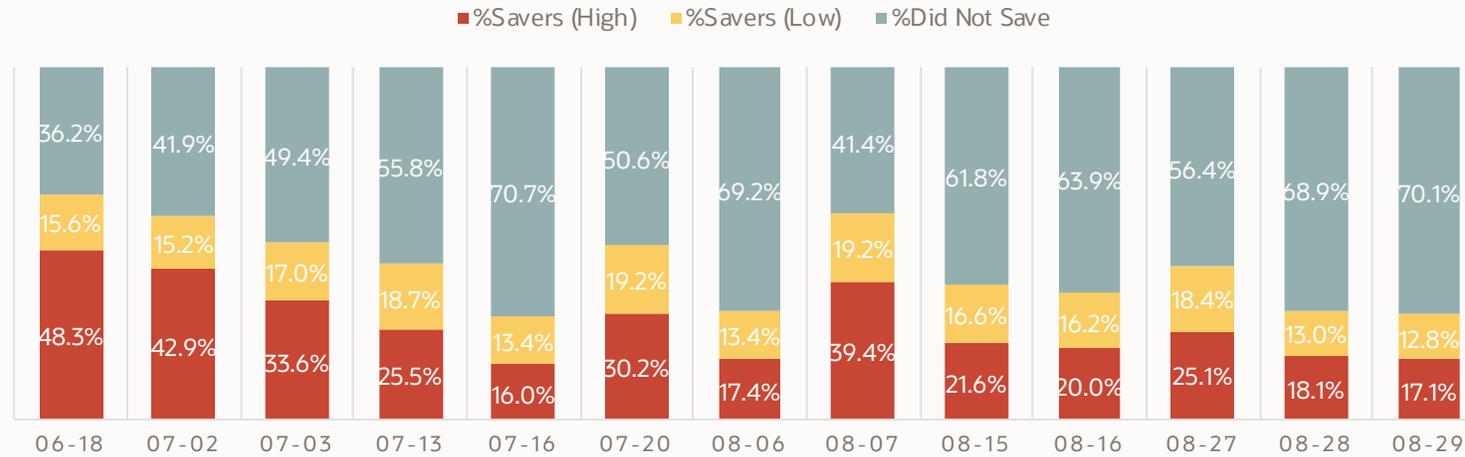
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2020 season had slightly lower participation due to changing usage trends as a result of COVID-19

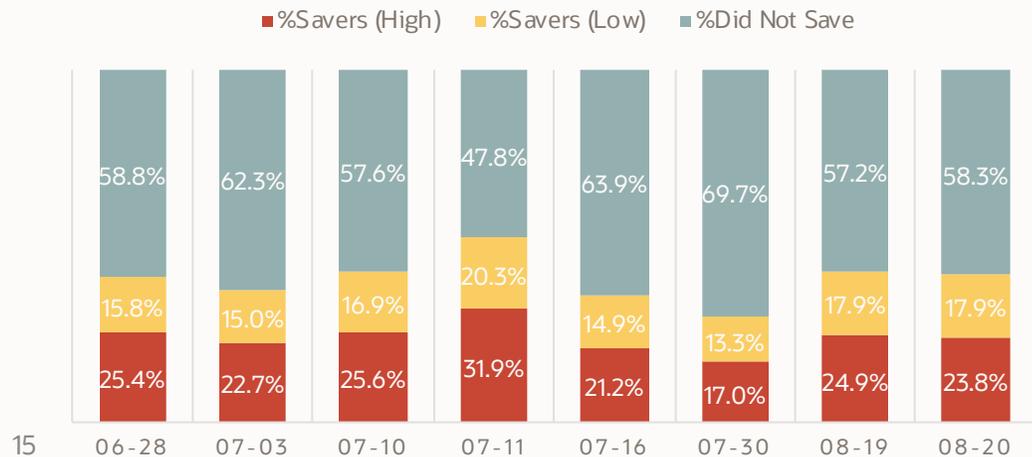
DRR SAVINGS - 2017 BREAKDOWN



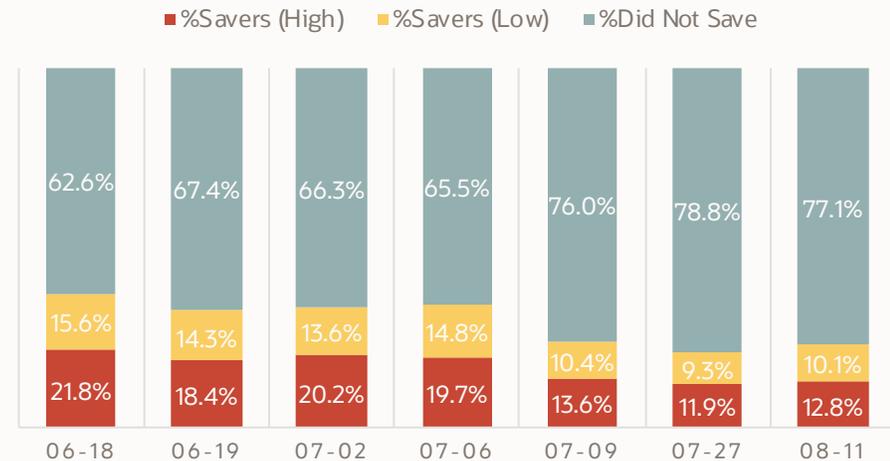
DRR SAVINGS - 2018 BREAKDOWN



DRR SAVINGS - 2019 BREAKDOWN



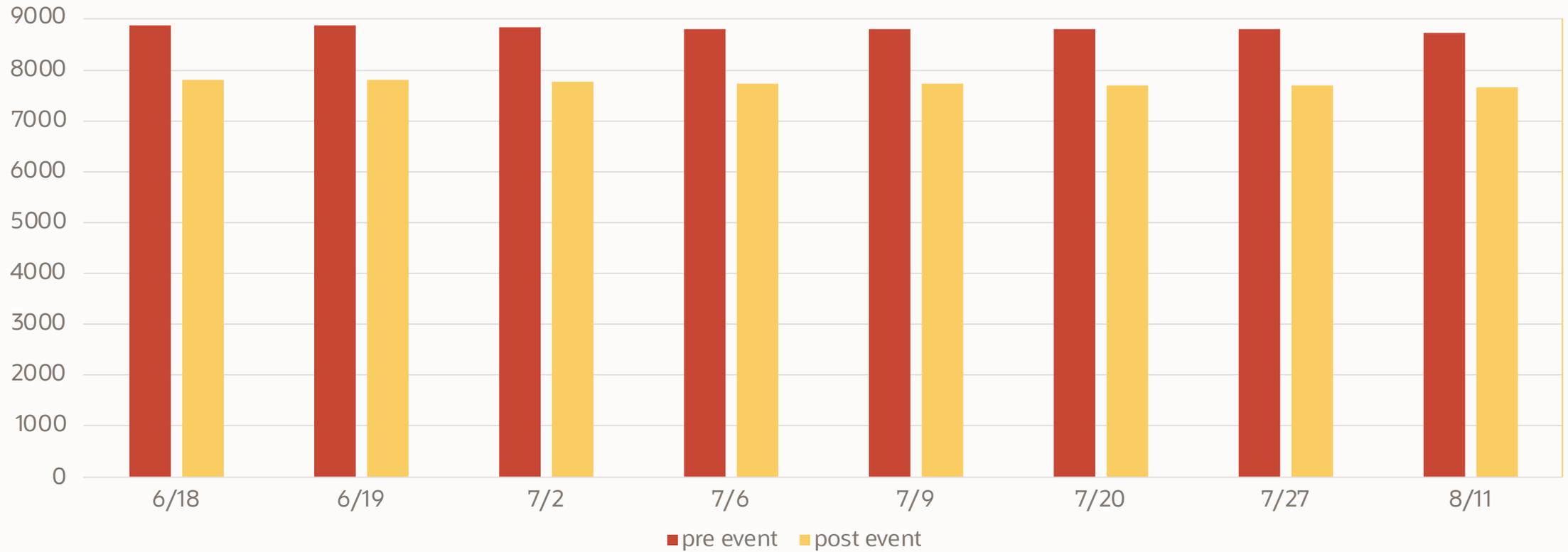
DRR SAVINGS - 2020 BREAKDOWN



Comms generated for 2020 season

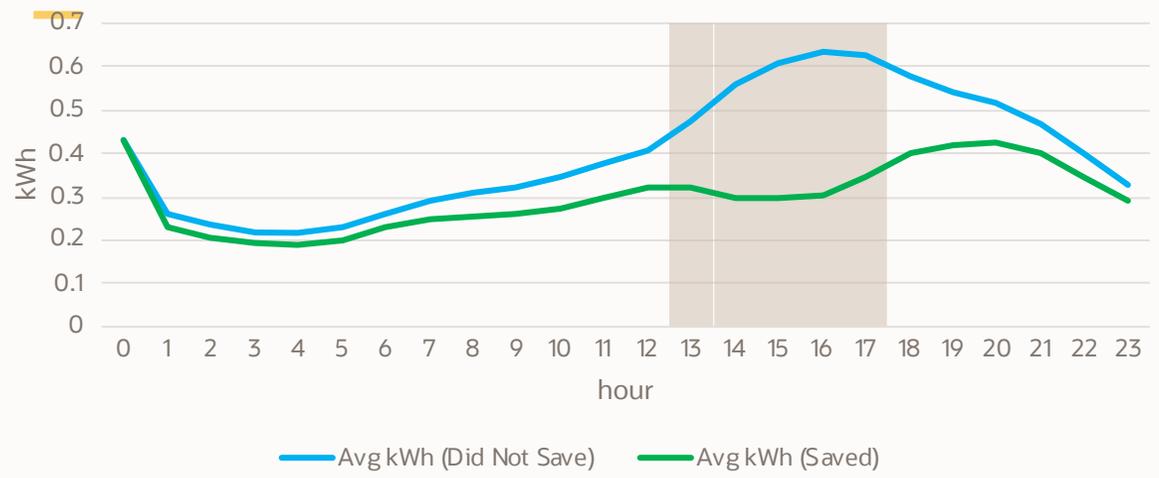


2020 PTR email generation

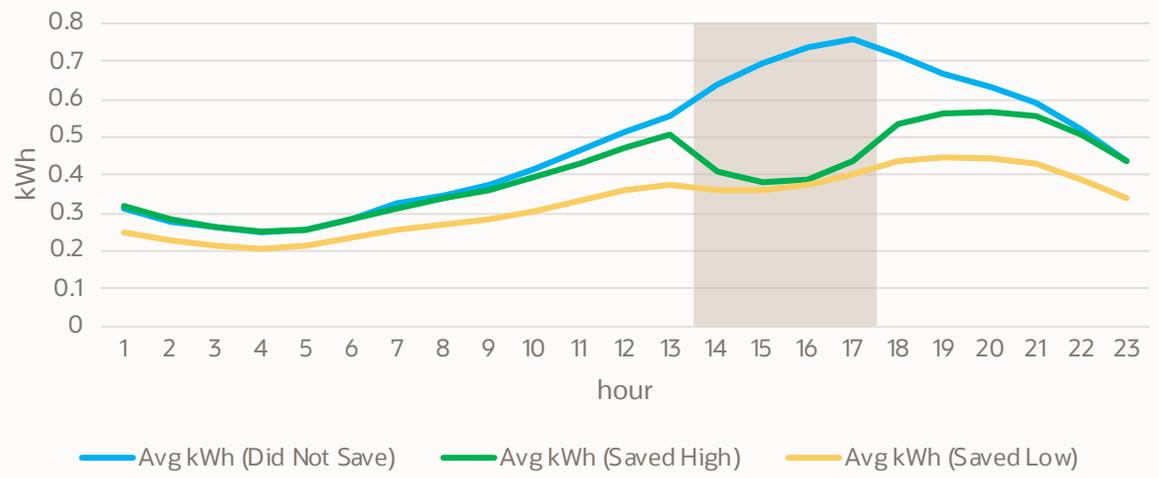


Consistent average customer energy use during event for energy savers versus non savers

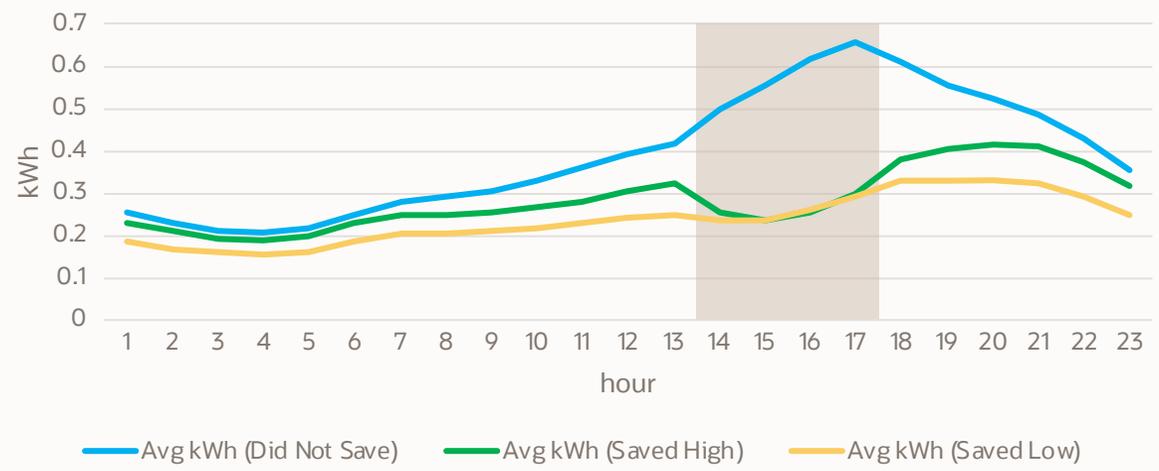
Average Usage During DRR Events - 2017*



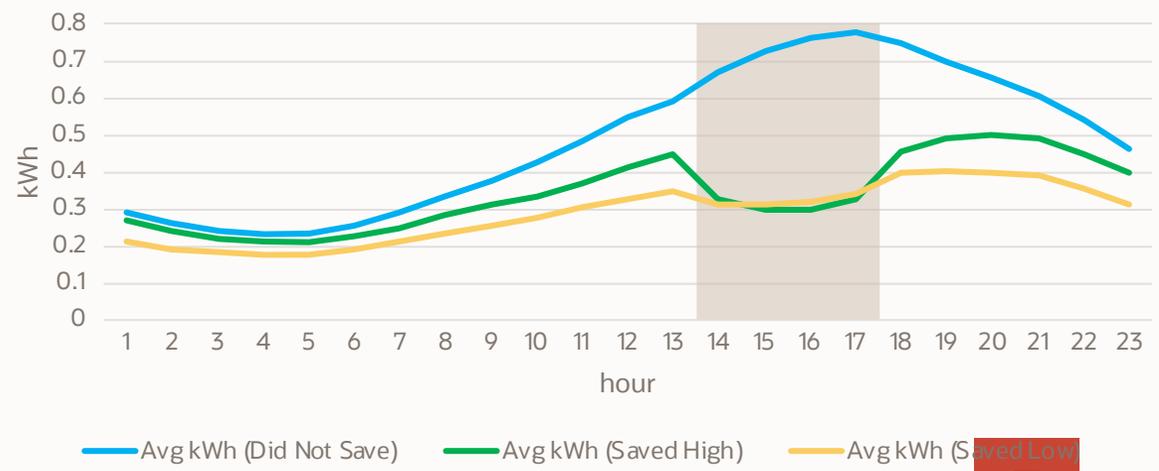
Average Usage During DRR Events - 2018



Average Usage During DRR Events - 2019



Average Usage During DRR Events - 2020

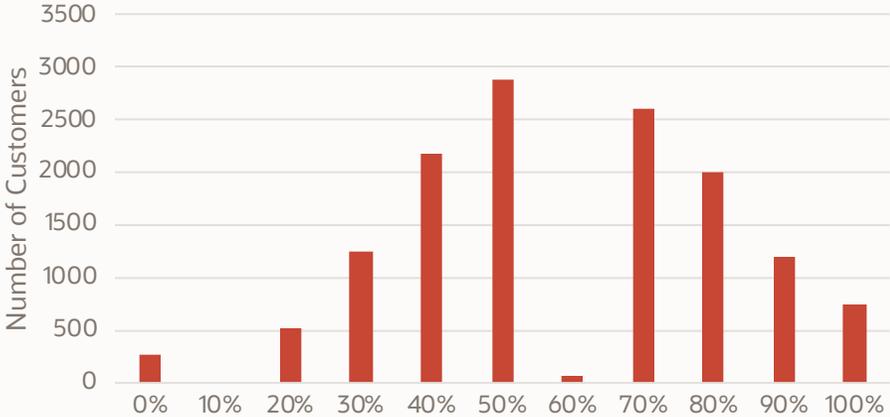


* did not distinguish high vs low savers for DRR events in 2017

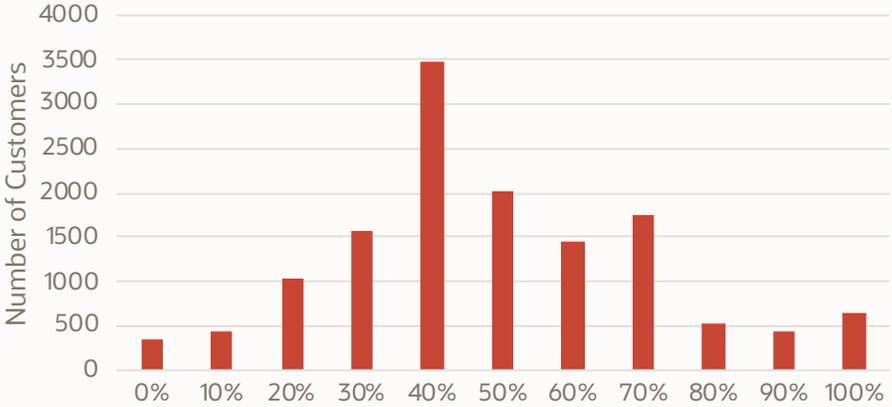


In past years, customers tend to only save for half the events and relatively few customers either never save or save in every event

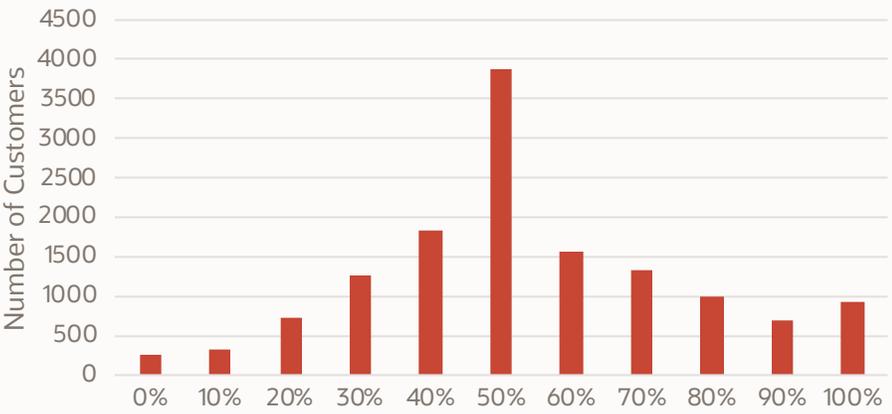
Proportion of Times Customers Saved During DRR Events (2017)



Proportion of Times Customers Saved During DRR Events (2018)

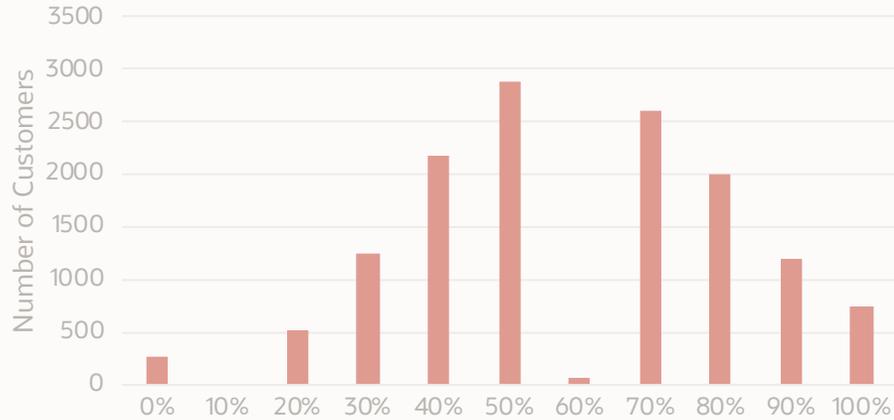


Proportion of Times Customers Saved During DRR Events (2019)

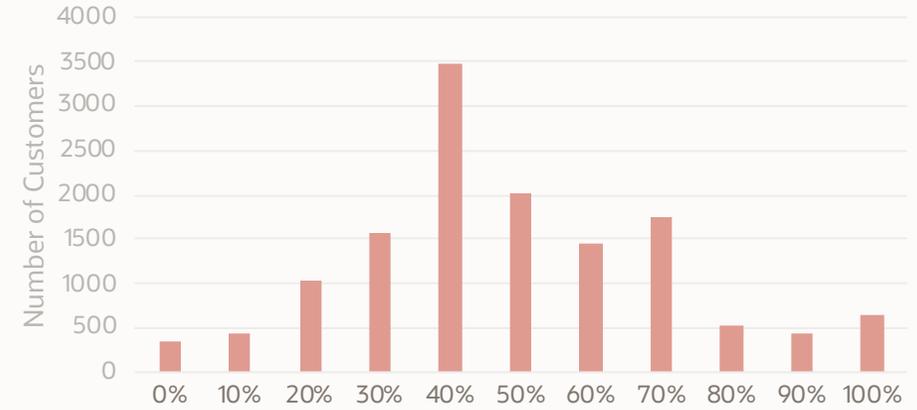


Increase in customers who are non-savers during 2020 events

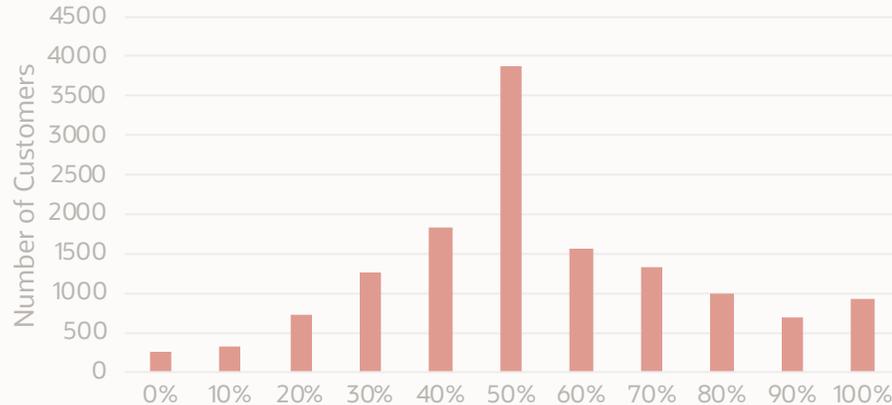
Proportion of Times Customers Saved During DRR Events (2017)



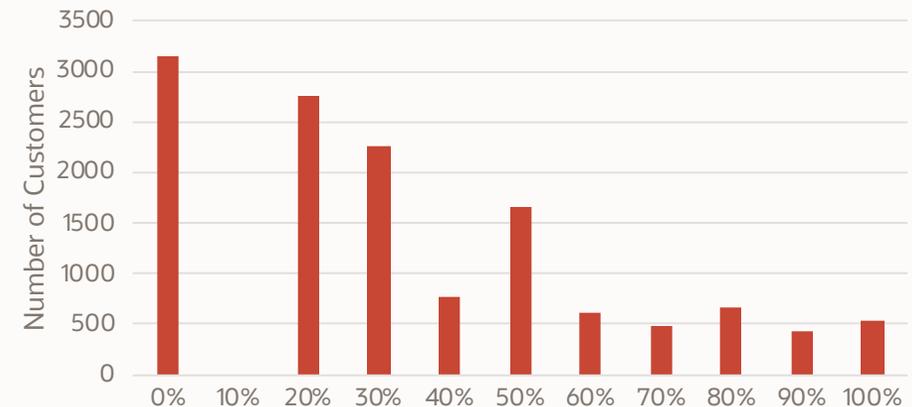
Proportion of Times Customers Saved During DRR Events (2018)



Proportion of Times Customers Saved During DRR Events (2019)

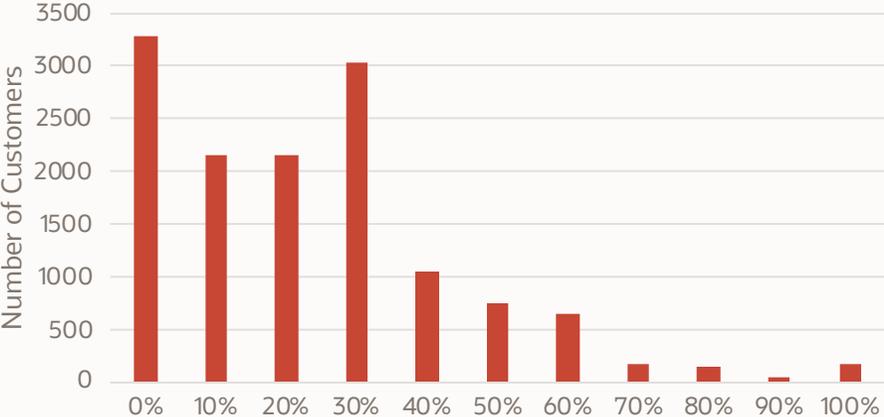


Proportion of Times Customers Saved During DRR Events (2020)

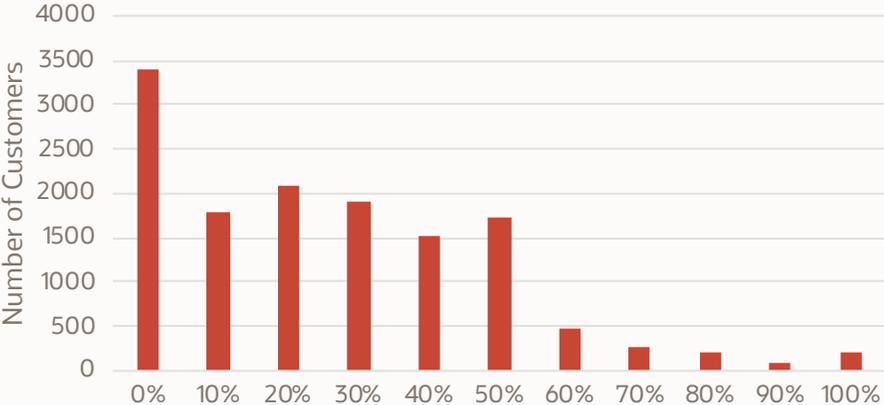


Less high savers in 2020 season compared to past seasons*

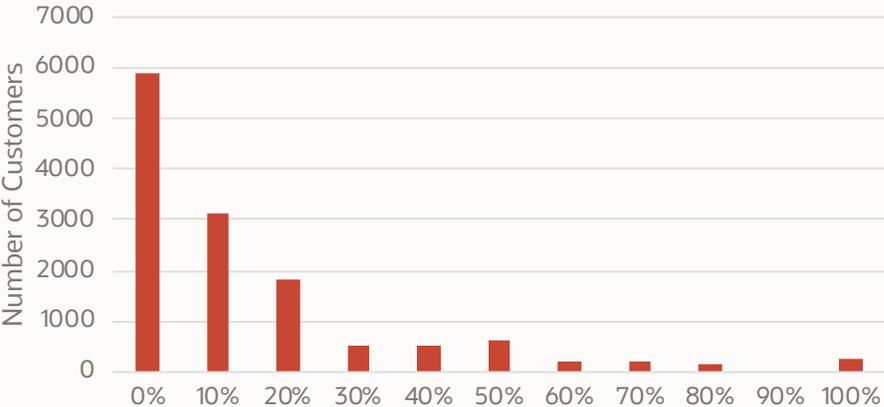
Proportion of Times a Customer is a High Saver During DRR Events (2018)



Proportion of Times a Customer is a High Saver During DRR Events (2019)



Proportion of Times a Customer is a High Saver During DRR Events (2020)



*high savers not calculated in 2017



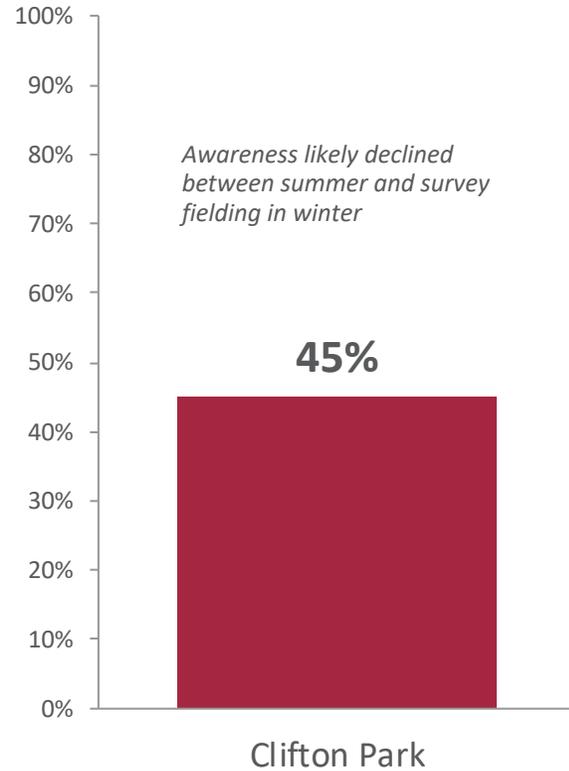


2019 Customer Engagement Tracker Results

Customer liking of conservation days exceeds motivation to save

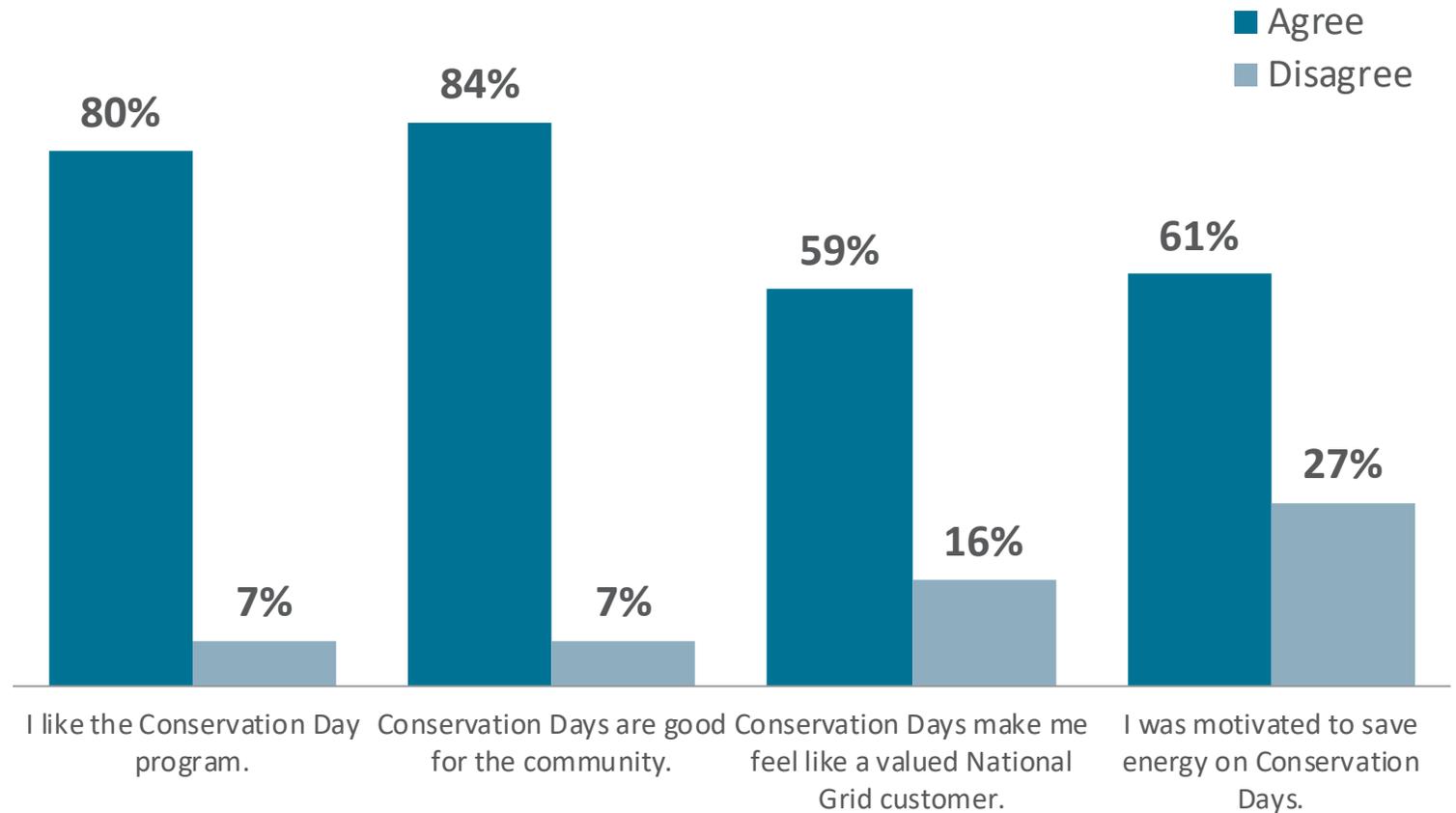
Conservation Day Recall

98 Clifton Park customers (unweighted)



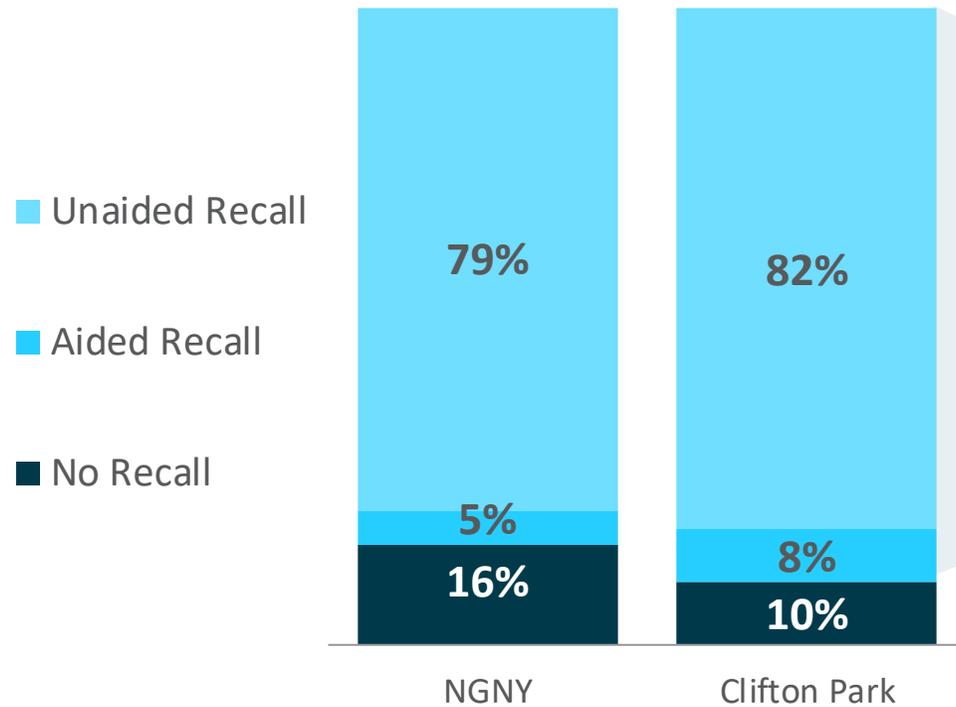
Conservation Day Reception

Bottom/Top 2 Box; 5pt. agreement scale (unweighted)

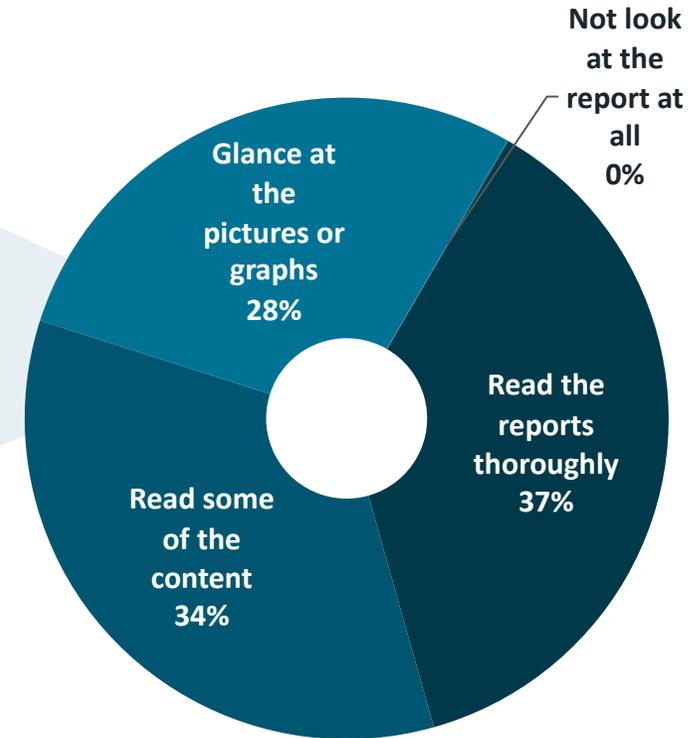


90% of Clifton Park recipients reading reports in some way

Home Energy Report Recall



Home Energy Report Reading

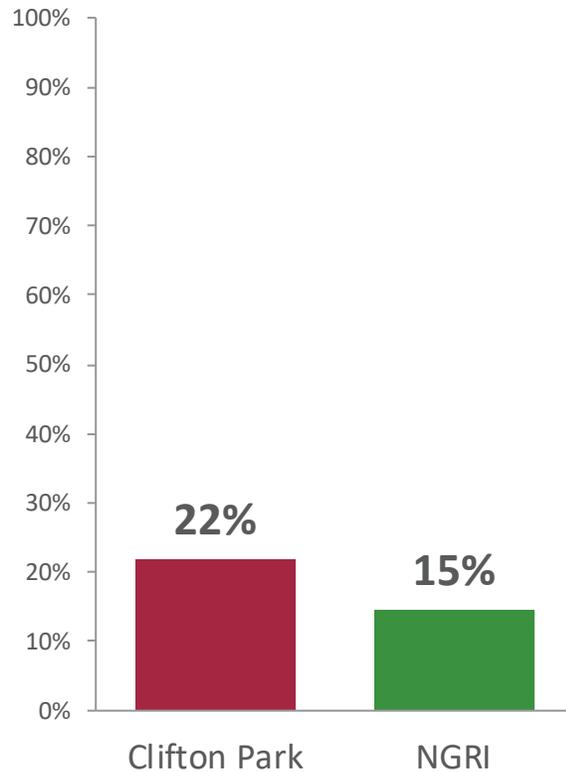


90% Clifton Park Overall Readership of HER

Lower levels of high usage alert recall, likely due to timing and no regular cadence of communication

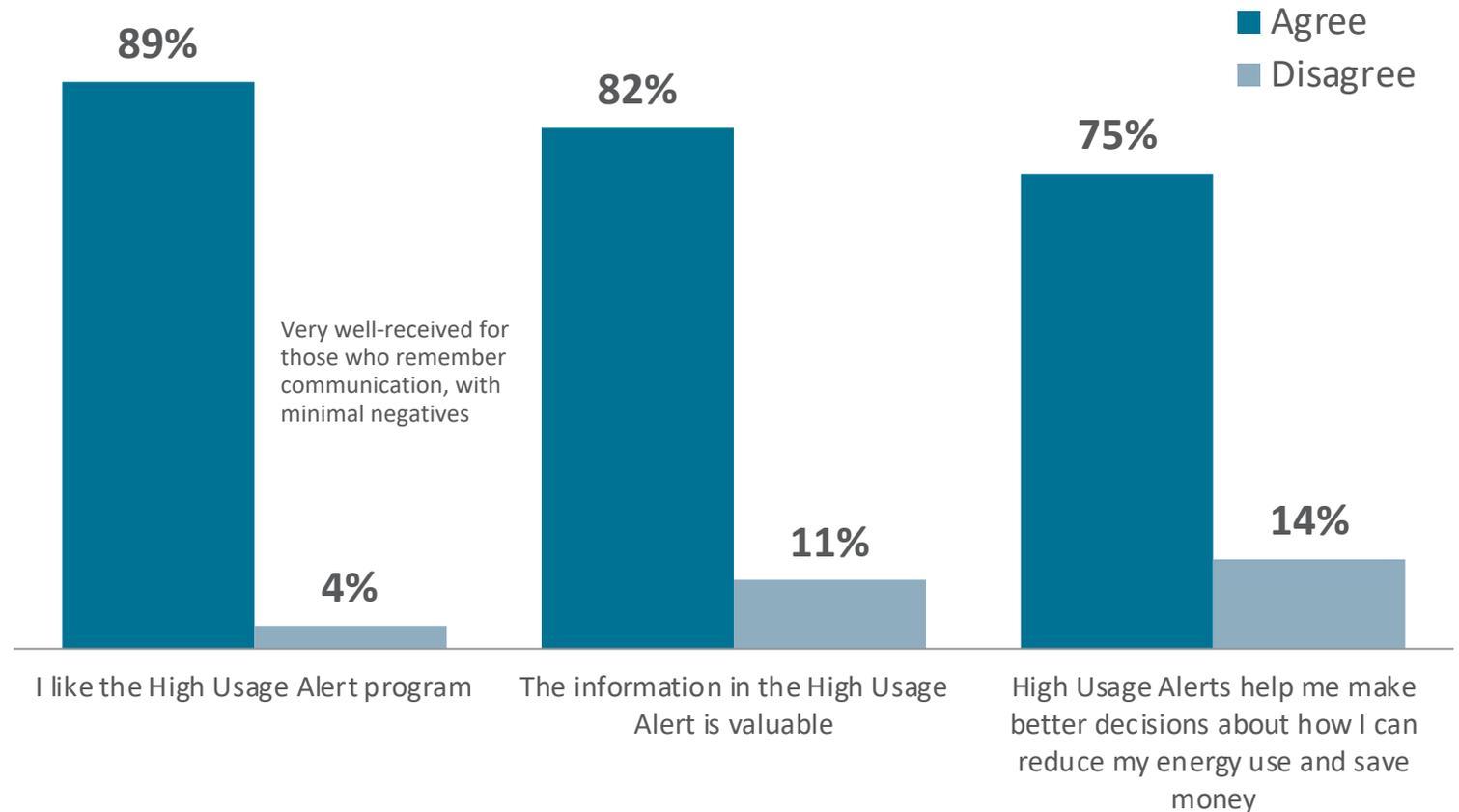
High Usage Alert Recall

165 alert recipients (unweighted)



High Usage Alert Reception

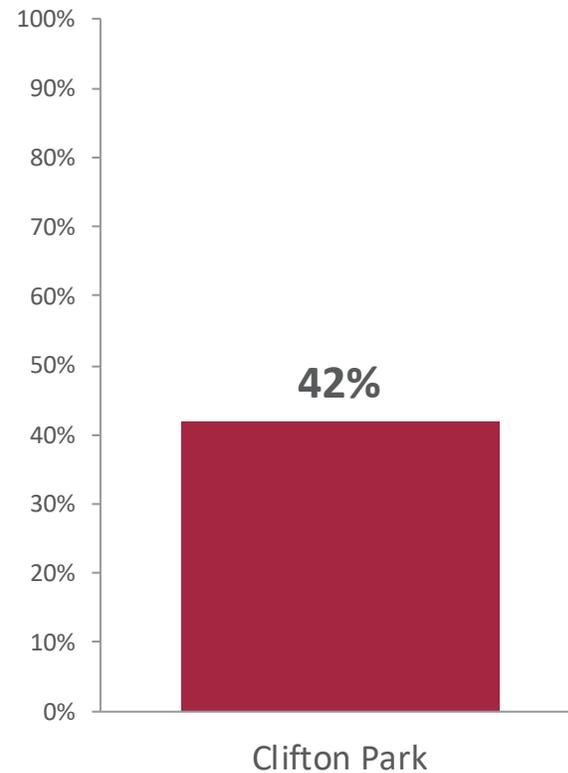
Bottom/Top 2 Box; 5pt. agreement scale (unweighted)



Weekly Electricity Reports also well-received by customers, with greater recall due to frequency of delivery

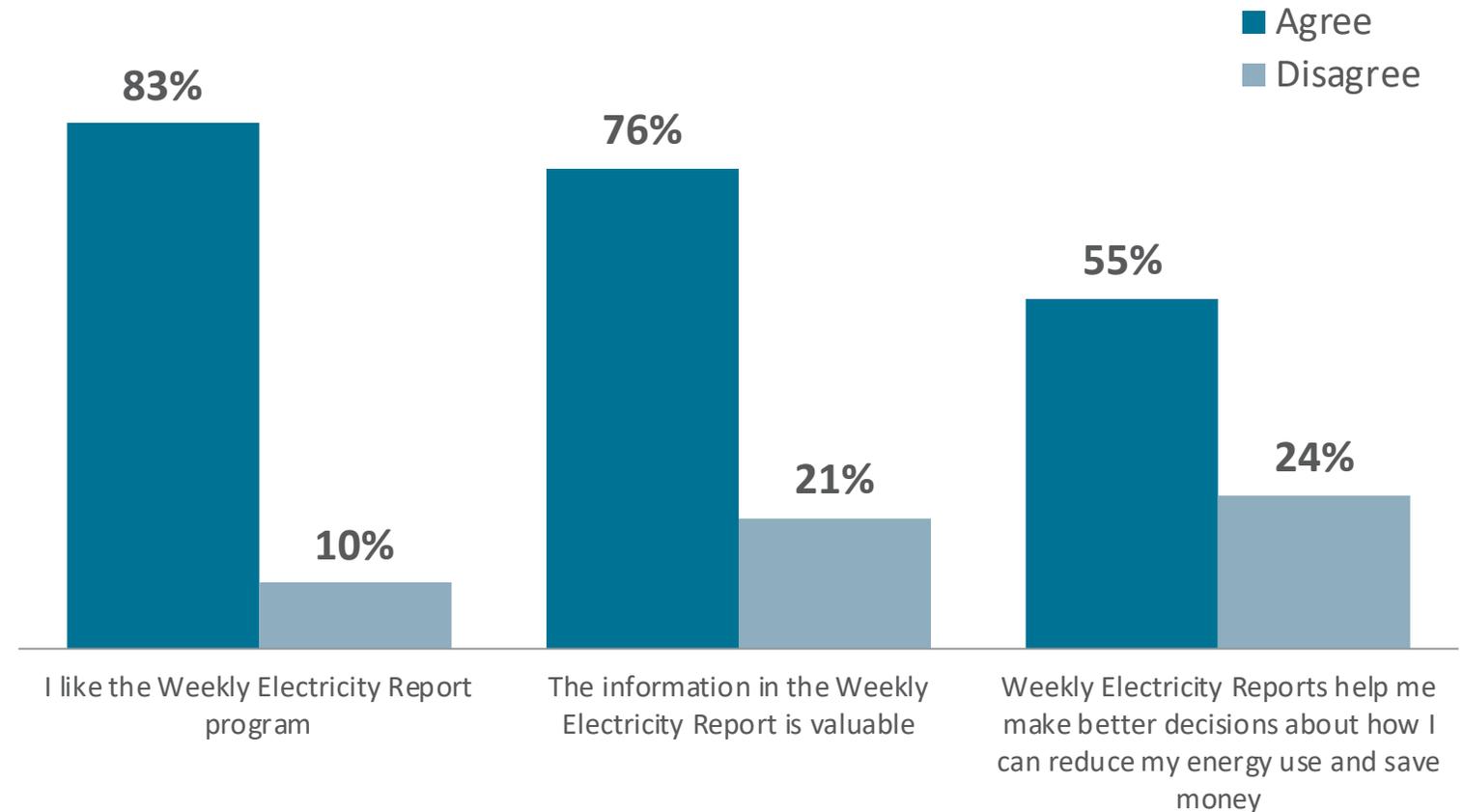
Weekly Electricity Report Recall

72 report recallers (unweighted)



Weekly Electricity Report Reception

Bottom/Top 2 Box; 5pt. agreement scale (unweighted)



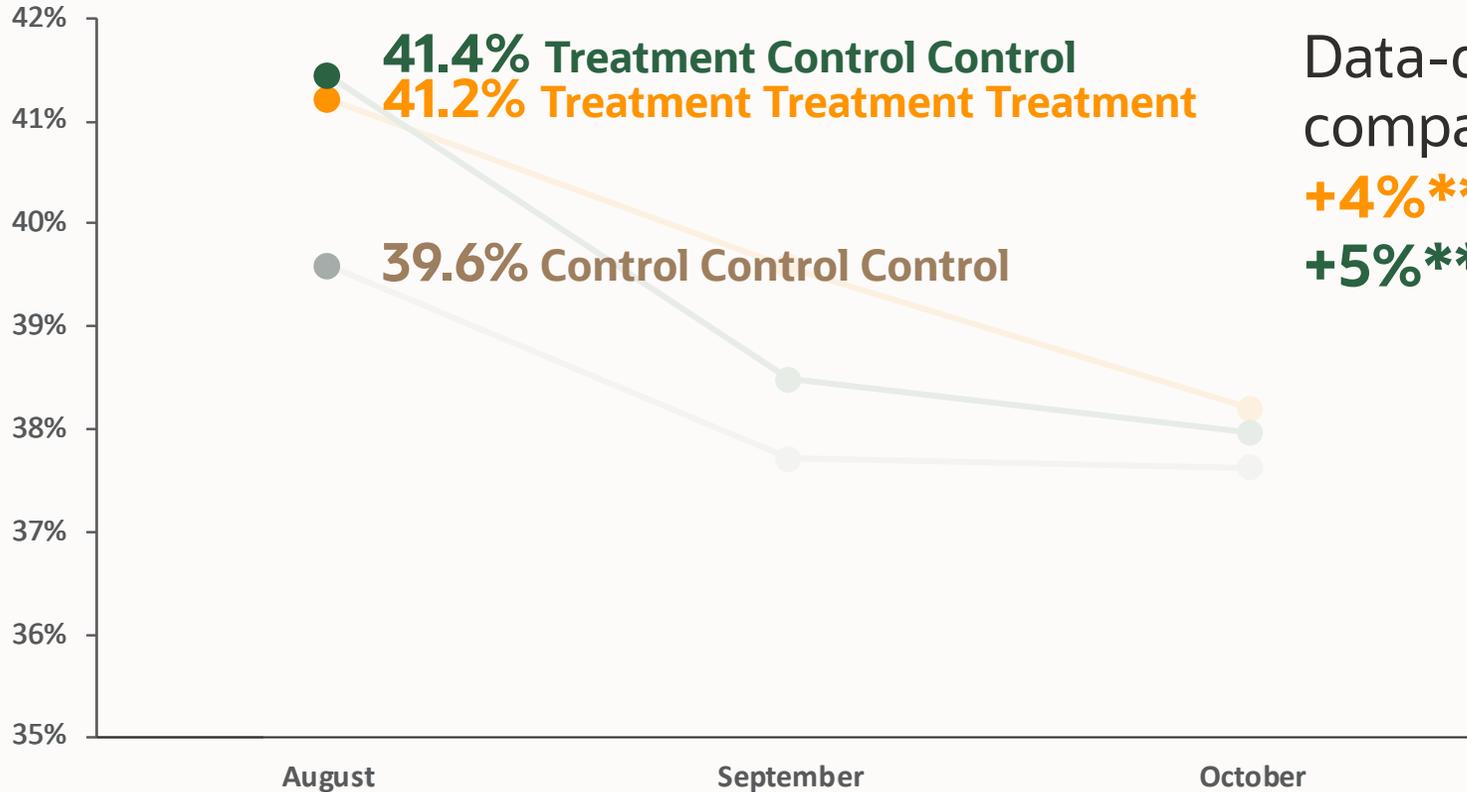
Opportunities

- Varied subject lines to encourage email opens
- Promoting program across other Opower products (HER, HBA, WAMI)
- Points awarding promotion to encourage program enrollment

Marginally higher open rates among data-driven subject lines

Open Rates

174,133 customers



Data-driven subject line increased opens compared to Control across both groups:
+4% Treatment Treatment Treatment**
+5% Treatment Control Control**



Cross product promotion

nationalgrid

National Grid Metro NY Home Energy Reports
1 Willow Street, Suite 2
Southborough, MA 01772-1026

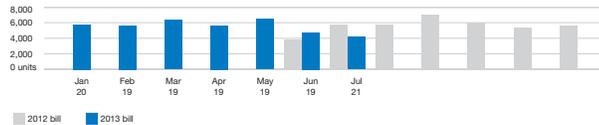
Home Energy Report

July 21, 2013
Account number: 1000001
Service location: 3 Elm street

We've put together this report to help you understand your energy use and what you can do to save. National Grid has energy efficiency rebate and savings programs to help you use less and

Track your progress

✓ This bill, you used 27% less energy than last year.



Save on your next bill



Zone heat with baseboard heaters

Baseboard heaters supply heat to each room individually. By heating only certain areas of your home, you can save up to 20% in energy use compared to heating both occupied and unoccupied areas.

Consider turning the baseboard heater down or off in rooms you tend not to use, or if you are leaving a room for a while. Close the doors to these rooms to keep heat from leaking into them.

Save up to \$210 per year

Here's how you compare to



Jun 20, 2013 - Jul 21, 2013
You're compared with 10 homes an average of 6 mi from you that similar size (1,200 sq. ft.) and have gas heat. Efficient neighbors are efficient 33% of this group. See back for details.

Electricity



In the last 6 months, you used more electricity than neighbors.

Tips from efficient neighbors

- Insulate water heater pipes
Save up to \$15 per year

Frequently asked questions

What's a unit?
A unit represents a combination of electricity (kWh) and natural gas (therms).

How is my comparison calculated?
We've chosen specific homes with characteristics that typically lead to similar energy needs, such as home size, heating source, and dwelling type. Most importantly, we only include homes that appear to be occupied at the time of the neighbor comparison. You can view and update your home information at ngrid.com/my-reports.

Why does National Grid send these reports?
We want to help you make smart energy decisions and manage your bills.

How do I stop receiving reports?
Call (877) 620-1930.

We're here to help

- ngrid.com/my-reports
- EnergyReportsNY@efi.org
- (877) 620-1930

Find more energy saving purchases

- ngrid.com/save

nationalgrid

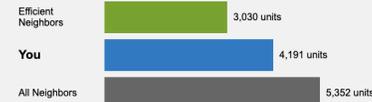
Printed on 10% post-consumer recycled paper using water-based inks.

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nationalgrid

Acct # ****001
Service location: 3 Elm street

You used 38% more energy than your efficient neighbors.



Jun 20, 2013 - Jul 21, 2013
Units represent a combination of electricity (kWh) and natural gas (therms). This is based on 10 similar homes an average of 6 mi from you. Efficient neighbors are the most efficient 20% of this group. [Learn more.](#)

Track your progress

✓ This bill, you used 27% less energy than last year.



[SEE MORE ENERGY TRENDS](#)

Ways to Save

- Upgrade to an efficient refrigerator**
Your refrigerator is on 24/7. As a result, it uses more energy than most appliances in your home. An old refrigerator uses nearly twice as much energy as a new ENERGY STAR® refrigerator.
Save up to \$150 per year
- Weatherstrip windows and doors**
Windows and doors can be responsible for up to 25% of heat loss in winter. To reduce leakage and save energy, seal your windows and doors with weatherstripping, caulk, foam, or door sweeps.
Save up to \$190 per year
- Set your thermostat to 78°F in the summer**
Cooling can account for a large portion of your home's summer energy use. To save energy and money, set your thermostat to 78°F when you're home, raise the temperature by 5-8°F when you're away.
Save up to \$180 per year

[SEE MORE WAYS TO SAVE](#)

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National Grid NY Home Energy Reports
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Southborough, MA 01772-1026
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Have questions? Call (877) 620-1930 (Monday-Friday, 8am-5pm)

nationalgrid

Jan 10
Acct # ****001

We're here to help



Many of our customers are using more energy than usual these days. New realities—like working or schooling from home—may be why. But whatever the reason, we don't want you to worry. For information about how we're helping customers deal with the unexpected, just get in touch.

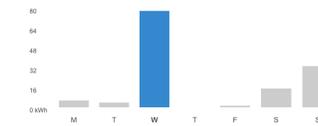
[LET US HELP](#)

ⓘ You used 376% more electricity this week.

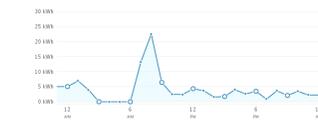


Your electricity use this week

You used the most on Wednesday



On Wednesday, Apr 4, you used the most in the morning



[SEE MORE ELECTRICITY TRENDS](#)

Reduce your use with these tips

- Unplug electronics when they're not in use**
Many electronic devices and kitchen appliances use power even when they're turned off. To save energy, unplug them from the wall when you're not using them.
Save up to \$85 per year
- Upgrade to ENERGY STAR® appliances**
Use of ENERGY STAR products in your home can mean up to 30% savings. Look for the ENERGY STAR logo on the product package, sales tag or the item itself.
- Replace your inefficient light bulbs**
Inefficient incandescent bulbs are costly to run and replace in the long term. Use compact fluorescent light (CFL) bulbs — they use 75% less energy and last at least ten times longer.
Save up to \$70 over bulb life

[SEE MORE WAYS TO SAVE](#)

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National Grid offered points to customers to sign up for paperless billing

nationalgrid
HERE WITH YOU. HERE FOR YOU.

Account number: 1234567890
Service number: 1234567890

Here's 25 reward points.
It's our thank you in advance
for going paperless.

The points are yours to keep, no matter what you do.



Paperless billing is a hassle-free way to save on time, money, and natural resources. You can enroll today — and as a thank you in advance, we're depositing 25 reward points in your account. Those extra points are yours today.

Here's how paperless billing works:

- We'll deliver your bill directly to your inbox as a secure PDF. You won't need to log into our website to view it. (You'll no longer receive a bill in the mail.)
- View, print, save, or pay your bill in a few clicks.
- See current and past bills online anytime.

Signing up is easy.

Just click the button below and you'll be automatically enrolled — no forms to complete:

[Sounds great. I'm in.](#)

nationalgrid
HERE WITH YOU. HERE FOR YOU.

Account number: 1234567890
Service number: 1234567890

Get 200 reward points
when you sign up for paperless billing
between now and November 30



Get rid of those piles of paper once and for all. With paperless billing, your bills are easy to find and easy to organize.

Here's how it works:

- We'll deliver your bill directly to your inbox as a secure PDF. You won't need to log into our website to view it. (You'll also no longer receive a bill in the mail.)
- View, print, save, or pay your bill in a few clicks.
- See current and past bills online anytime.

ditch the clutter, get 200 reward points. It's a win-win — but this offer is **only available until November 30**.

Signing up is easy

Just click the button below and you'll be automatically enrolled — no forms to complete:

[Sign me up](#)

- Simplified e-bill signup process
- Sent utility-generated e-bill promotions via outbound communications
- Points equivalent of \$2 incentive for eBill sign-up
- Tested two points scenarios (shown left), which performed equally as well

Points promotion increased program sign-ups

Customers went online



Customers signed up for eBill

7.7%

of enrolled customers signed up for paperless billing (compared to a baseline monthly enrollment of 0.2% - 0.4%)