

**Wakefield Municipal Gas and Light
Department**

Board of Commissioners



July 14, 2021

NOTICE OF MEETING
WAKEFIELD MUNICIPAL LIGHT & GAS DEPARTMENT
BOARD OF COMMISSIONERS

DATE: July 14, 2021
CALL TO ORDER: 6:30 P.M.

Consistent with the Governor's orders suspending certain provisions of the Open Meeting Law and banning gatherings of more than 10 people, this meeting will be conducted by remote participation to the greatest extent possible. The public may not physically attend this meeting, but every effort will be made to allow the public to view and or listen to the meeting in real time. Persons who wish to do so are invited to click on the following link

Join Zoom Meeting

<https://zoom.us/j/91986103502>

Meeting ID: 919 8610 3502

Dial in

+1 646 876 9923

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Please only use dial in or computer and not both as feedback will distort the meeting.

**WMGLD BOARD OF COMMISSIONERS MEETING
480 North Ave
Wakefield, Massachusetts 01880**

July 14, 2021

**AGENDA
6:30 PM**

- A. Call to Order**
- B. Opening Remarks**
 - Chair's Remarks – Tom Boettcher
 - Commissioners Reports
 - Town Council Liaison Comments
 - Public Comments
- C. Secretary's Report**
 - 1 Approval of June 2, 2021 Minutes
- D. Old Business**
 - 1 Project Updates
 - 2 Project 2015A Update and Discussion
 - 3 Gas Systems of the Future
- E. New Business**
 - 1 June Heat Waves – Operations Update
 - 2 2021 Goals and Objectives – Mid-year Update
- F. Any other matter not reasonably anticipated by the Chair**
- G. Executive Session- If necessary**
- H. Adjournment**



WMGLD
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Tel. (781) 246-6363 Fax (781) 246-0419

Peter D. Dion, General Manager

Thomas Boettcher, Chair
Elton Prifti, Secretary
Philip Courcy
Jennifer Kallay
John J. Warchol

**WAKEFIELD MUNICIPAL GAS & LIGHT DEPARTMENT
BOARD OF GAS & LIGHT COMMISSIONERS MEETING**

June 2, 2021

MINUTES

IN ATTENDANCE:

Comms. Thomas Boettcher, Chairman
Elton Prifti, Secretary
Phil Courcy
Jennifer Kallay
John J. Warchol

Peter Dion, General Manager, WMGLD

Mark Cousins, Financial Manager
Dave Polson, Engineering and Operations Manager
Sylvia Vaccaro, Office Manager

Julie Smith- Galvin, Town Liaison

PLACE: ZOOM MEETING

CALL TO ORDER:

Commr. Boettcher called the meeting to order at 6:30 P.M. and informed the Board the meeting is being recorded.

Chair Remarks:

Commr. Boettcher mentioned that the Biden Administration had approved the 800 MW Vineyard Wind Project and stated that it will be interesting to see what this will mean for WMGLD. He also extended kudos to the WMGLD team for its quick response time and restoration of services during this weekend's outages. He informed the Board that both he and Pete provided Town Council with an update on the EV charging pilot program and that it was well received.

Commissioner Remarks:

Commr. Courcy noted that he and Pete attended the MEAM conference in Plymouth, MA. He said that Representative Tom Golden from Lowell, who was the former Chair of the Telecommunications and Energy Committee was the guest speaker. He has filed bills on clean energy, modern electric grids, offshore wind, and has shepherded the Climate Bill. Commr. Courcy said that Representative Golden commented that the Municipal Light Plants are doing a great job in their efforts in wind, solar, electric vehicles, and conservation and wished he lived in a Municipal area. Representative Golden stated that he has concerns as to how quickly renewables will be able to come online. Commenting on offshore wind not being the end all and noting that the transmission and distribution for offshore wind has not even begun to be built yet.

Commr. Kallay reported that the Stretch Code was passed at Town Meeting on May 8, 2021 as part of the Town's efforts to become a Green Community. She is working with WMGLD's IT Manager, Jeff Morris entering data into MEI and in the coming month they will be uploading more months of data. She noted that there will be 2 tracks running in parallel. The first will be to analyze the data to present the Town's energy use baseline and the second track will be the energy reduction plan & what our strategies will be to meet these targets and approaches used. She stated that the goal is to apply to the Green Communities program in October. The last administrative piece will be to pass a Fleet policy which should happen in the next month or two at Town Council. She noted that she is happy to share the presentation with the Board.

Town Council Liaison Comments:

Julie Smith-Galvin thanked both Pete and Commr. Boettcher for their EV presentation to Town Council. She noted that Town Council will be discussing the Fleet policy in the next two meetings. She mentioned that Town Council passed a clause allowing any Board in Wakefield to hold remote meetings. There are certain guidelines in place such as the majority must be in person, as well as the Chair, presiding over the meeting. This clause was passed in case the emergency measures put in place by the Governor is not extended. Commr. Boettcher inquired if this would pertain to the public. Julie stated it would probably apply to the public and presenters. Commr. Warchol inquired if she

would remain as the WMGLD liaison. She noted that new liaisons will be appointed at Town Council's next meeting on June 14, 2021.

Secretary's Report

Approval of minutes from the May 5, 2021 meeting was before the Board for approval. Comms. Boettcher, Kallay, Warchol, and Prifti provided edits to incorporate into the minutes.

A motion was made by Commr. Courcy to accept the May 5, 2021, minutes as amended and seconded by Commr. Warchol.

Roll Call Vote:	Commr. Courcy	Aye
	Commr. Kallay	Aye
	Commr. Prifti	Aye
	Commr. Warchol	Aye
	Commr. Boettcher	Aye

The motion was approved unanimously 5-0.

Old Business:

Project Updates

EV

Pete stated that one thing that is impacting the proliferation of electric vehicles is the shortage of electric vehicles. He noted that Sylvia is having difficulties lining up dealerships to bring electric vehicles to Farmer's Markets because of this shortage. He also mentioned that WMGLD is having issues replacing our own leased electric car.

System Maintenance

Pete noted that Anton's Cleaners 4kv mat transformer configuration was replaced with a padmount transformer this week. He commended the electric crew for the great job. He explained that Paul and Dave are working with customers to replace the last two 4kv mat transformers.

He mentioned that the upgrade work on the feeder to Circuit 4 to downtown is completed. Crews are now working on old overhead wire on West Water. He explained that there have been two recent issues in that area, so this work has been accelerated. Hopefully, in the next month that section of West Water will be upgraded. Commr. Warchol inquired as to how many more outages would be needed to complete the upgrade. Pete said one more schedule outage would be needed to convert over to the new system.

Pete said that the office has been reopened for over a month. All staff is back in the office, and we are following the same COVID protocols and guidelines as the Town. Any of our crews that need to enter homes are required to wear masks.

MMWEC Project 2015 A

Pete mentioned that this item was added to agenda because Commr. Kallay requested a follow up discussion. He stated that the MMWEC Board, in a special session, took a vote to temporarily pause this project to evaluate the project further. This hold is for a minimum for 30 days. He revealed that he is working with city of Peabody to identify a location large enough to hold a public forum and will hopefully have a date in the next few weeks. He cited that one concern about this project is that not enough people were engaged in it.

In addition, he said that they are looking at adding hydrogen as an additional fuel. Noting that the Pratt engine can run partially (up to 25 percent) on green hydrogen, which would reduce its carbon output below the original forecast of 7000. The issue is the availability of green hydrogen. Most generating companies are faced with the lack of green hydrogen. We are looking at the availability of State and Federal grant money to possibly update the unit. Pete also noted that we received a request to analyze battery technology. He commented that it is a great supplement but not a replacement for this type of unit. Batteries would not work here because there is not enough land at this site. Additional off-site locations would add tremendous cost to infrastructure and only provide 2-4 hours which is only a piece of the run time. Pete noted that 65 percent of the time the Peabody peaker would run 2-4 hours, but he asked what will you do for the other 35 percent of time when the peaks last more than 2 hours. He said that he met with two battery manufacturers so far and neither one is ready to do any projects in the North East Massachusetts (NEMA) transmission zone because there is not enough land for these type projects.

Commr. Kallay asked Pete if there is a drop-dead date for decision making that the Board needs to know about. Pete said that one time frame would be September 1st, in that Fall window due to forward capacity commitments, permits and contracts with manufacturers.

Commr. Kallay inquired as to what happens with the original DPU hearing if we make changes, would the hearing be repeated. Pete said we asked the DPU to hold off on a decision until we get back to them. Pete stated it would be repeated if anything changed that would trigger a new hearing. For example, if adding hydrogen adds significant cost, does it change the bonding request or could it be offset by State or Federal grant money. Commr. Kallay also inquired about what information would be presented at the public forum. Pete indicated that he would present all the information that we know at that time. He does not believe that

we will have cost information at that time. Commr. Boettcher inquired if hydrogen is added, do we know what the environmental offset would be as the plant is designed now. Pete said that potentially up to 25 percent of the fuel can be supplemented with hydrogen which reduces the output of the unit without major changes to the existing technology. Hydrogen would have to be injected and mixed with the natural gas. Commr. Boettcher inquired as to what the reduction in greenhouse emissions output would be if the unit as designed today was injected with 25 percent hydrogen. Pete said he asked the question and has not received a clear answer if it is a one-to-one ratio or not.

Commr. Courcy expressed his concern of not only the cost of cancelling this project, but the cost of losing local control. He noted that Breathe Clean North Shore, which is primarily MCAN who is speaking for them, do not represent the ratepayers of Peabody, Salem, and Wakefield. Pete noted that he shared earlier that day the cost of cancelling this project on Wakefield as well as the other communities. Commr. Kallay asked what the total cost would be for the people of Wakefield. Pete stated that we are 8.75 percent owners of the project, and that our share of the committed cost right now is \$2.7 million. Pete stated that the total project commitment to date is over \$30 million of the \$85 million we are seeking bonding for. If the project is cancelled, that money would be lost

Green Options

The Board reviewed the draft of the Green Options flyer. Commr. Boettcher commented that this is a good start. Pete said that we are looking at how to market non-carbon emitting and making your entire electric supply renewable. He said that they came up with the name Customer Choice and some copy for a marketing campaign. Commr. Warchol said that he saw numerous areas where we could change the grammar, usage, and the accuracy of the description of the program. He thought there would be two options. One being non-carbon and the other being totally renewable eliminating the nuclear. He said that this draft only describes one option. Pete stated that we were just trying to keep it simple.

Commr. Boettcher said that depending on how the Board votes he thought that per Pete and Mark's guidance to keep it to one option would keep the billing simple. He stated however, that he was struggling with the name of Customer Choice for the program. He did like the phrase Go Green with Power Choice. He thought the flyer information was very concise.

Pete said that this is only a first draft, and we will continue to refine the marketing program and flyer.

Commr. Boettcher stated that the Board needs to discuss if this is something that they want to offer our customers and if so, do you want to offer one or both options. If we choose only one option, which option do you want to offer. Comms. Courcy, Kallay, and Prifti agreed to keep it simple and offer one option.

Commr. Warchol noted that we need to be careful that we are clear as to the cost implications. We need to be honest as to what people will be volunteering to paying extra for each month. That this will be so WMGLD can purchase RECS for environmental reasons. He noted we should see which option will provide the most bang for our buck.

Commr. Warchol said we need to know the benefit of this program, so we state what we are selling to the customer. Commr. Boettcher said we are providing the customer an easy way to offset their carbon production from their usage of electricity. Commr. Kallay said there are numerous ways to state what participating in this program will achieve. The first being that the customer would be funding future renewables being built. Secondly, you can meet the 2050 goal to be carbon free today, and lastly you are funding your usage to be green. Commr. Warchol noted that we could state that you would be offsetting by contributing to greener generation within the New England region, however it is still incorrect to say your entire usage will be green.

Commr. Kallay suggested that we should focus our marketing material on who our target market would be for this program, such as renters, condo owners. Commr. Warchol said he is leaning towards offering the lower cost option of non-carbon emitting.

Commr. Kallay stated we do not receive any additional credit for the difference between the non-carbon emitting and renewable. Pete confirmed this and noted that we would just purchase more RECS. Commr. Kallay stressed that the important piece is buying the high-quality REC that will generate new incremental renewables.

Pete said that we are going to have about 1000 new renters over the next few years. This program may be their only option to become greener. The Board chose to move forward with this program. Pete asked the Commissioners to send him any comments about the marketing campaign. He will speak to Jeff Morris, WMGLD’s It Manager, about how the billing system will be able to handle this new rate.

A motion to implement a green option rate on the non-carbon option at \$0.0222 per KWH premium was made by Commr. Warchol and seconded by Commr. Kallay.

Roll Call Vote: Commr. Courcy Aye
 Commr. Kallay Aye
 Commr. Prifti Aye
 Commr. Warchol Aye
 Commr. Boettcher Aye

The motion was approved unanimously 5-0.

New Business

Colonial Gas Cyber Attack

Commr. Boettcher said that it is important for the Board to be aware of this subject and that he asked Pete to add this subject to the agenda. He commented that these attacks have been on the uptick. Pete explained it is about making these attacks a glancing blow and minimizing their impact. Jeff Morris, IT Manager put together a slide show that provides a high-level overview of what WMGLD has in place to help mitigate these cyber-attacks. It was noted that there are virtually a million attempts to hit our servers on a daily basis. We utilize multiple layers of protection. WMGLD also has relationships with third parties, such as MMWEC, and Utility Services, to help spot potential problems. WMGLD also educates its employees about the dangers of opening bad emails or attachments thereby, inviting the hacker into our system. We utilize backups and offsite backups in case there is an attack to help minimize the impact.

Commr. Courcy inquired what would happen if the New England power lines came down would we need to consider a contingency. If we were attacked thru our substations, how would we come back. Pete stated that we have plans in place for all those areas. We do have limited capacity within our system thru the batteries and generators, certainly not enough to bring back the entire system. We have the ability to go manual if our SCADA system were attacked. Upstream there are more global ISO and National Grid plans we would be part of if ISO or National Grid were attacked.

Commr. Boettcher inquired if our system has the ability to completely isolate ourselves from the larger system if there were a need. Pete stated we are fed by four 115 lines. Two to the north that feed the Wallace station and two to the south that feed the Beebe station and they are all fed from the Montrose ring station. To physically isolate we would open all four breakers.

Commr. Courcy inquired if we would be able to restore all circuits to the Police, Fire and Town Hall. Pete explained that they all have their own generators as does WMGLD. He noted that the hierarchy would be backup for a shelter. As the plans for a new high school come along, we would build a network up there that would include solar, battery and some form of generation.

Commr. Boettcher explained that there are two ways to recover from ransomware attack. The first is to pay the ransom and the second is to recover from your backup. He commented that from his perspective Jeff has a good layering plan in place.

Commr. Kallay asked how WMGLD would address a ransom aspect. Pete said that in our case we would disconnect from SCADA and go manual for a while and on the billing and customer side, we would disengage and restore from backups, and manually enter anything we lost. Commr. Boettcher noted that federal guidance from law enforcement is not to pay ransom because it encourages that activity. He also stated that if something like that ever happened the Board would have to convene to discuss how to handle the situation.

Gas Systems of the Future

Pete noted that as part of the Climate Bill, there is a focus on the future of the natural gas business. Basically, how do we migrate a gas system to the gas system of the future. Pete mentioned that Commr. Kallay had asked to incorporate the entity heet.org in this discussion.

Heet.org started out by tracking gas systems, their inefficiencies and number of gas leaks. They expanded into designing pilot micro grids using geothermal. National Grid and Eversource are currently participating in test pilots on how to migrate their gas systems to a gas system of the future. Heet.org has been working with investor-owned utilities but are also interested in working with Municipals to gather data and potentially propose a test pilot on a street in Wakefield.

This is still in the conceptual phase as to how to migrate to a new system. Pete stated that over next 20 years if we are successful in electrification how do you manage the gas system that is left behind for those still utilizing that system and the associated costs. From our perspective we are strongly encouraging movement to heat pumps in order to curb our peak load in the winter months. There may be money from the State to help support pilots so we will continue to examine these new concepts.

Commr. Boettcher stated that part of the discussion would be augmenting where we do not have gas infrastructure now and do not plan to in the future. He noted that perhaps these streets would be a candidate for a neighborhood wide geothermal heat pump system that the utility manages. Pete confirmed that these streets could potentially be candidates for a micro grid geothermal system. He did mention that you have to consider the geology of the area. You would need to have enough of the geothermal source without hitting bedrock. He commented that the geology on the entire street would have to be suitable for a geothermal system. Pete stated that geothermal is not a universal answer but if you can find an appropriate location it could be helpful. Pete mentioned that he believes Eversource is looking at streets that do not have gas and National Grid is looking at both streets with and without gas.

Commr. Prifti confirmed that National Grid is looking at both options. He commented that the main driver is some of the communities where there was a stop on gas expansions for commercial customers. He also said that there are other communities where there was a stop on residential expansion as well. He noted there are two schools of thoughts, one is to convert to geothermal and the other to convert to hydrogen gas. He mentioned that there are certain restrictions in areas where the system would need to be ready to accept hydrogen gas with the pipes that are in the ground. They are also looking into the impact this would have to electric system as well and if they would be able to accept those new loads.

Commr. Kallay inquired if we would be able to recoup our costs if we conducted a project on a non-gas street. She asked if it would be a feasible pilot project to network all the municipal buildings in the downtown area. Pete advised that these buildings are too spread out for a project like this. Perhaps a better option would be the three schools that are near each other. You may want to consider dedicated systems at Town Hall and the Public Safety building.

Commr. Boettcher inquired if these questions could be asked of heat.org for their expertise and guidance. Pete said that his impression of heat.org was not as a consultant, but as a group trying to bring people together to facilitate discussions and to work on different projects. He stated that heat.org does not have a good feel for the Muni world. They are looking for data from Munis to provide them with educational information about our infrastructure and gas leaks.

Commr. Courcy commented that New England is an expensive area to start an underground project because of its rocky geography which makes the costs of these projects increase exponentially for blasting and chipping away at ledge. He believes that with projects like this we will learn from other about the costs and differences.

Pete said that there is a reason why certain streets in Wakefield do not have gas. He said that it is because the developer or the utility did not put in gas because of the geography. Commr. Prifti stated that there have been incremental cost increases for material and construction for underground systems. Right now, costs are north of \$50 million a mile to install a duct bank.

Commr. Kallay found the tri school thought interesting considering the significant load of these buildings. Commr. Courcy mentioned that there is ledge in that area. Commr. Boettcher said it will be interesting to see if we can provide another option to our customers in the future. Commr. Kallay inquired how things were left with heat.org. Pete said that there is a follow-up call later this week. He will see what information they are looking for from us and report back to the Board next month with any new information.

Board Recognition Discussion

Commr. Boettcher said that he wanted to discuss how the Board could recognize former Commr. Chase for his 42 years of service. Pete said that he also wanted to mention to the Board the following four long-time WMGLD employees that have or will be retiring shortly this year: Mark Pebley, Wayne Sampson, Kathy Martino, and Bob Rainville. He stated that former Commr. Chase’s length of service was remarkable and certainly worthy of a different kind of recognition.

Commr. Courcy noted that former Commr. Chase expressed that he did not want any acknowledgement. Commr. Warchol said that former Commr. Chase asked him for a copy of the minutes from this last Board meeting. Commr. Warchol said maybe we could incorporate the retirees into the Employee Appreciation Day this year. Pete said hopefully we can do an in-person Appreciation Day this Fall and include the retirees.

Commr. Boettcher said perhaps if we can have a plaque dedicated in his name somewhere. He served this community for such a long time, and I feel he should be recognized. Commr. Kallay inquired about naming the new community solar program the Ken Chase Community Solar Farm. Pete said that would be a great opportunity to dedicate it to him. Commr. Warchol said it is a good idea to dedicate something to him, and perhaps we could also have an honorary dinner, present him with a plaque, and have an article in the Item.

Any other matter not reasonably anticipated by the Chair.

No comments.

A motion to adjourn was made at 8:30 pm by Commr. Courcy and seconded by Commr. Boettcher.

Roll Call Vote:	Commr. Courcy	Aye
	Commr. Kallay	Aye
	Commr. Prifti	Aye
	Commr. Warchol	Aye
	Commr. Boettcher	Aye

The motion was approved unanimously 5-0.



JUNE 2021 WMGLD COMMISSIONER'S DASHBOARD

	Outages (Elec)	
	SAIFI	CAIDI
Mar	0.58	56
Apr	0.62	49
May	0.51	53
Cal YTD	0.57	53

	FYTD WMGLD Generation - May		
	Salem St.	Battery	Total
RNS Benefit	\$ 600,449	\$ 300,893	\$ 901,342
Capacity Benefit	403,731	200,479	604,210
Debt Service	(584,657)	(225,928)	(810,585)
Net Benefit	\$ 419,523	\$ 275,444	\$ 694,967

	CYTD Pipe Replacement	
	Replaced	System Total
4"	6,139	173,838
6"	50	151,317
8"	840	81,045

CONSERVATION BUDGET	
YTD FY21 Conservation Billed	\$ 138,881
YTD FY21 Paid out to Customers:	
296 Appliances & Thermostats	\$ (18,402)
65 Air Sealing (insulation/windows)	(57,419)
99 Heating & Cooling	(68,900)
16 Residential Solar	(66,289)

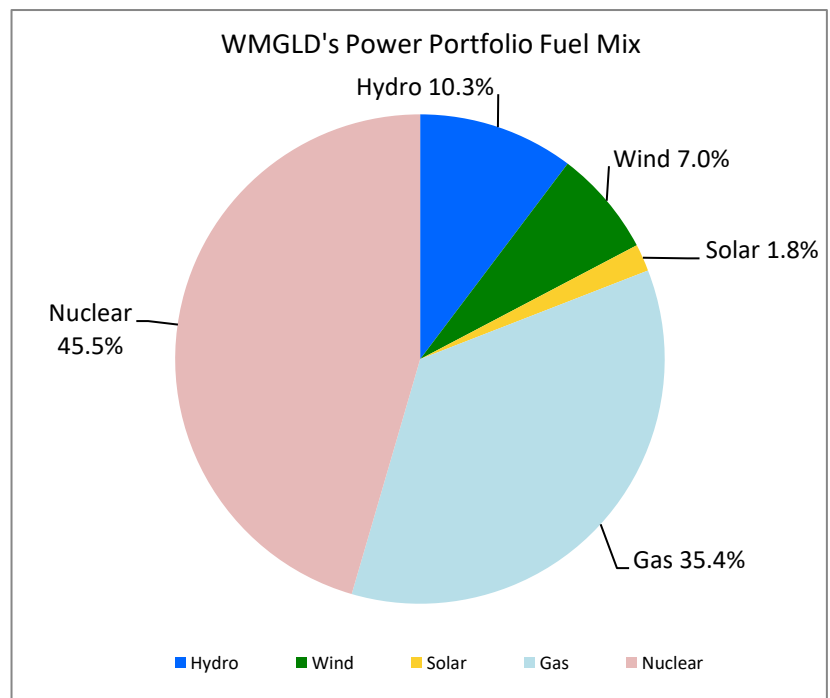
	New Services on the System	
	Electric	Gas
Mar	2	1
Apr	2	2
May	3	4

Natural Gas Peak Usage	
Current Year Peak (Nov '20 → May '21)	1,118,751 CCF
Prior Year Peak (Nov '19 → May '20)	1,020,971 CCF
All-Time Peak - Jan '18	1,370,554 CCF

	Solar Generation 64 Customers	
	Generated	Back to WMGLD
CYTD	690,046	274,320
Comm'l	5,807,160	1,187,000
Res	1,435,895	776,177
Inception	7,243,055	1,963,177

	FYTD Sales 11 Mos. → 5/31/21		
	Electric	Gas	Total
\$\$	\$23,980,432	\$9,270,502	\$ 33,250,934
kWh/CCF	149,653,883	5,825,942	

	Monthly & Annual Peaks	
	Prior Year	Current Year
Mar	23.8 Mw	25.7 Mw
Apr	21.8 Mw	22.1 Mw
May	29.1 Mw	32.9 Mw



Summer YTD Peak	
7/28/20	6/30/21
44.0 Mw	43.9 Mw

Winter YTD Peak	
12/17/19	1/29/21
28.6 Mw	28.0 Mw

All Time Peak	
1/2/14	8/2/06
36.5 Mw	50.7 Mw

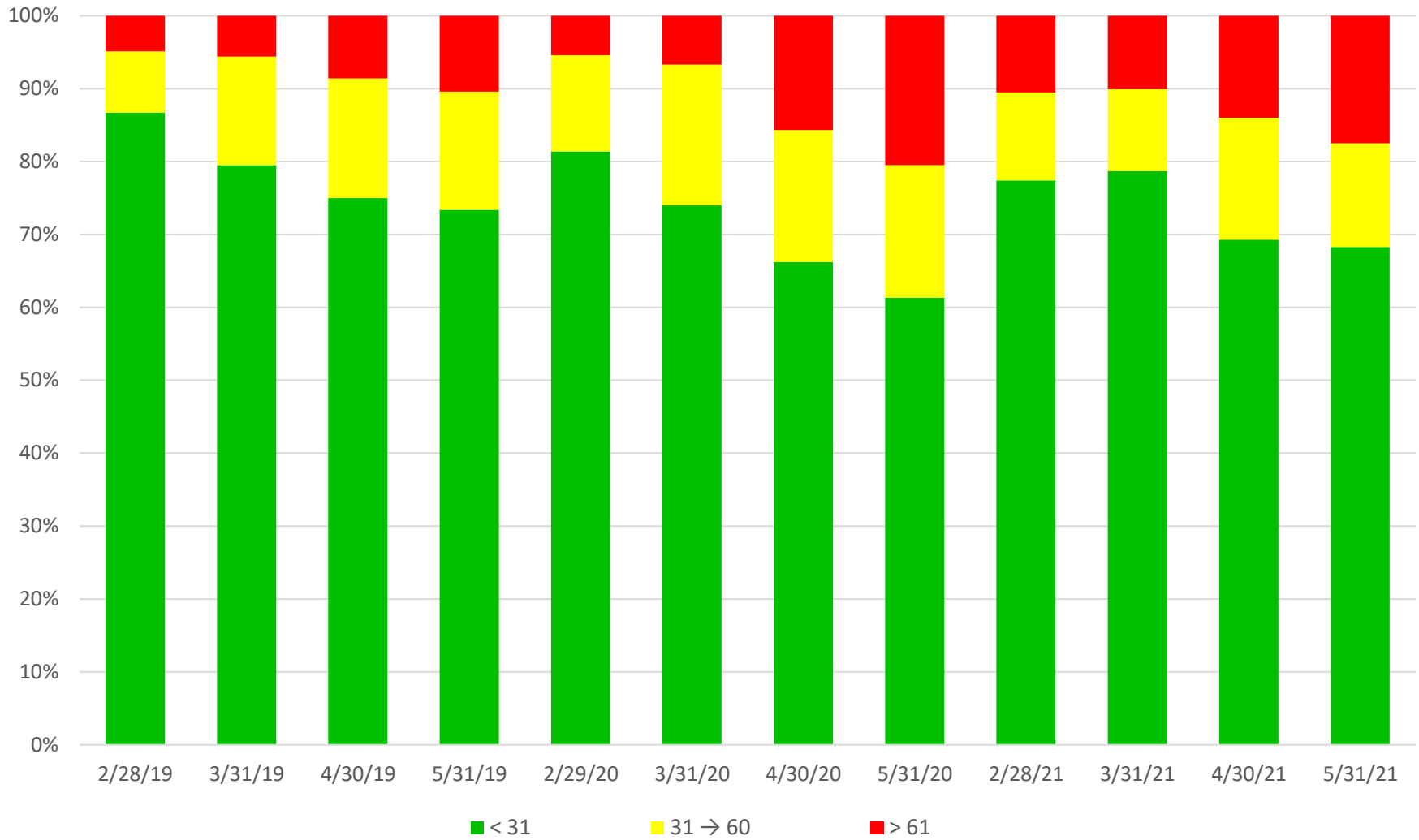
Wakefield Municipal Gas & Light Department
Customer Issues Log

Date	Issue	Resolution
December 15, 2020	Question regarding answering service / office calls not being returned in a timely manner for a real estate agent / property sale / final bill	Realtor was given an office single point of contact.
August 24, 2020	Customer called indicating that during storm clean-up our contracted tree crew had damaged a retaining wall & customers driveway	WMGLD's E & O Manager along with representative from tree company met with the customer at his home and explained the damage was caused by erosion during the storm, not tree crew
July 2, 2020	Customer requested billing name change on account to reflect the name of a close relative who did not own & did not lease the property	Explained that the customer of record can only be the owner or lessor of the property
3/16/20 to 5/1/20	Slow down in posting payments to customer accounts due to continued Century Bank LockBox processing delays	Currently in communications with Century Bank & have re-tooled to process additional payments in-house with clean environment
January 16, 2020	Customer claimed move out in November but did not notify WMGLD until January. Disputed Nov - Jan billings. Posted on social media	Discussed with customer the responsibility of timely notification of move out
November 5, 2019	Customer requested service termination on account in his name, not living at service location anymore due to divorce	Explained service termination process involving move in / move out and spousal rights & responsibilities as it relates to the customer of record
October 8, 2019	Collections & payment plan. Customer contacted the DPU regarding protection from service termination	Service was terminated on customer account due to non payment and non response

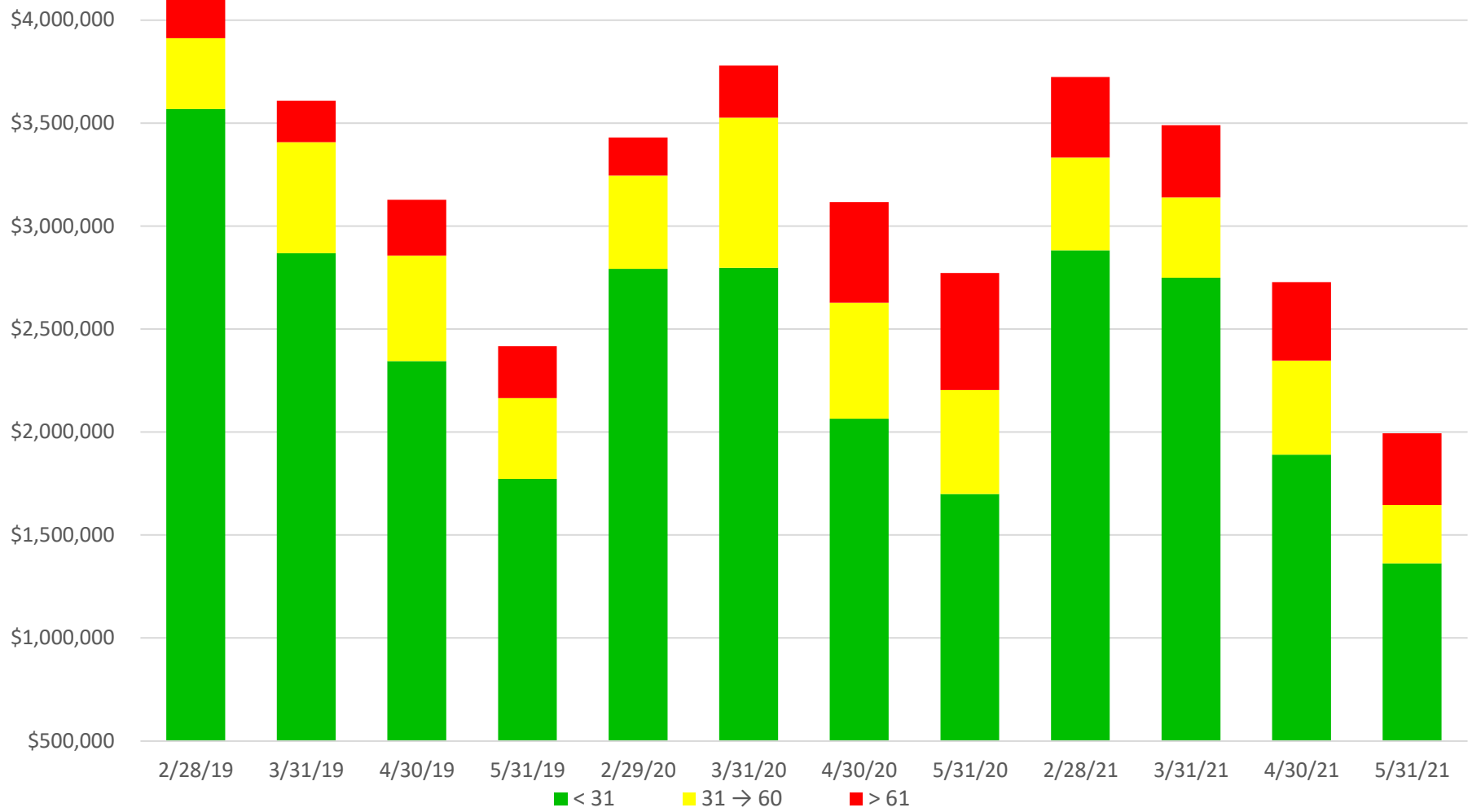
COMMISSIONER REQUESTS LOG	Requested By	Request Date	Completion	NOTES
			Date	
Review net metering policy	JK	12/5/2018	1/9/2019	
Add completion dates to this form	JW	12/5/2018	1/9/2019	
Remove identifying information on customer requests	JW	12/5/2018	1/9/2019	
Add solar to supply mix	JK	12/5/2018	1/9/2019	
Streetlight conversions to be added to Dashboard	JW	2/1/2018	2/26/2018	
Dashboard to reflect KWH demand	JW	2/1/2018	2/26/2018	
3 double poles on Nahant Street	KC	3/1/2018	3/2/2018	VZ
Review Employee handbook	KH	3/1/2018	4/11/2018	
Subcommittee of JW and JK on survey development	JW	5/24/2018	6/20/2018	
Update Gas service Request List	KC/JK	5/24/2018	6/20/2018	
Berkshire Pro-Formas to Board	JW	3/1/2018	4/11/2018	
Access to be provided to website under construction	JK	6/20/2018	6/27/2018	
Minutes to webpage	JK	9/12/2018	9/19/2018	
Review Energy audit format	WT	11/1/2018	12/5/2018	
Progress made fixing gas leaks	JW	continuing		
Copy of Ngrid 345 KV contract	JK	2/13/2019	when available	
Share Strategic Planning dates with Town Administrator	JK	2/13/2019	2/14/2019	
Provide Board with size of solar projects	TB	6/5/2019	9/4/2019	

COMMISSIONER REQUESTS LOG	Requested By	Request Date	Completion	NOTES
			Date	
Provide Board with additional information for EE proposal	JK, JW, TB	7/7/2019	9/4/2019	
Updates to EE proposal including rates hearing	JK, JW, TB	9/4/2019	10/2/2019	
Meet to discuss goal setting with Manager	JW - PC & KC	10/2/2019	10/15/2019	
Next year's goal setting meet with GM	PC & KC	11/13/2019	11/22/2019	
Provide pricing on Renewable Energy Credits = 15%	JK	11/13/2019	11/20/2019	
Provide detailed data on gas leaks	TB	11/13/2019	11/27/2019	
Provide information on data structures and fields in Customer Informtion System (Cogsdale)	JK	12/4/2019	1/8/2020	
Rework solar consumption as presented on solar bills	TB	1/8/2020	1/31/2020	
Update Electric Vehicle Dashboard to include cost data	TB	5/6/2020	6/3/2020	
Revise 2020 General Manager Goals due to COVID-19	PC	6/3/2020	7/15/2020	
Mission statatement development	JK	7/15/2020	9/2/2020	
Rebates - Sense Rebate to Webform & Add WIFI Thermostats to Connected Homes Program	TB, JK	9/2/2020	10/7/2020	
Provide additional details on Customer Accounts Receivable / Collections	JW	12/2/2020	1/6/2021	
EV Charger - Year 1 summary data reporting	TB	2/3/2021	3/3/2021	
Earth Day Brochure	TB	3/12/2021	3/30/2021	
Upload 5 years of DPU reports to WMGLD website	JK	5/5/2021	5/19/2021	
Outage map functionality on mobile device	TB	5/5/2021		

Receivables Aging - As of May 31, 2021



Receivables Aging - As of May 31, 2021



	RAW DATA - RECEIVABLES GRAPHS				RAW DATA - RECEIVABLES GRAPHS			
	2/28/21		3/31/21		4/30/21		5/31/21	
< 31	\$2,882,545	77.4%	\$2,748,726	78.7%	\$1,889,746	69.3%	\$1,362,000	68.3%
31 → 60	449,901	12.1%	389,735	11.2%	456,451	16.7%	283,499	14.2%
> 61	391,210	10.5%	351,448	10.1%	380,915	14.0%	348,628	17.5%
Total	\$3,723,656	27.9	\$3,489,909	26.3	\$2,727,112	22.2	\$1,994,127	17.6

	2/29/20		3/31/20		4/30/20		5/31/20	
< 31	\$2,791,702	81.4%	\$2,797,449	74.0%	\$2,065,026	66.3%	\$1,698,882	61.3%
31 → 60	453,928	13.2%	728,941	19.3%	562,873	18.1%	505,584	18.2%
> 61	183,927	5.4%	253,236	6.7%	488,322	15.7%	566,939	20.5%
Total	\$3,429,557	25.4	\$3,779,626	28.2	\$3,116,221	25.1	\$2,771,405	24.0

	2/28/19		3/31/19		4/30/19		5/31/19	
< 31	\$3,567,807	86.7%	\$2,868,480	79.5%	\$2,343,803	75.0%	\$1,773,019	73.4%
31 → 60	343,765	8.4%	538,761	14.9%	512,670	16.4%	391,478	16.2%
> 61	201,025	4.9%	200,567	5.6%	270,412	8.6%	251,457	10.4%
Total	\$4,112,597	27.6	\$3,607,808	25.0	\$3,126,885	23.4	\$2,415,954	19.4

Notes: Gross Receivables from customer accounts are aged at month-end.
At 5/31/21, the >61 day balance of \$348,628 was analyzed in detail - results include 173 unique accounts which make up \$175,631 of the \$348,628 balance with >61 day account balances ranging from \$13,760 to \$500
DSO Ratio is also presented in **RED**

	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES
	2/28/21	3/31/21	4/30/21	5/31/21	2/29/20	3/31/20
ELECTRIC	2,262,036	2,268,849	1,901,715	1,700,305	2,386,516	2,244,545
GAS	1,813,020	1,683,131	892,185	543,699	1,665,426	1,706,790
TOTAL	\$4,075,056	\$3,951,980	\$2,793,900	\$2,244,004	\$4,051,942	\$3,951,335

	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES
	2/28/19	3/31/19	4/30/19	5/31/19	2/29/20	3/31/20
ELECTRIC	2,585,439	2,327,985	1,990,000	1,973,487	2,386,516	2,244,545
GAS	2,048,298	1,713,540	1,080,599	623,717	1,665,426	1,706,790
TOTAL	\$4,633,737	\$4,041,525	\$3,070,599	\$2,597,204	\$4,051,942	\$3,951,335

SENSE Monitors

June 2021 Summary

WMGLD Fleet Overview

Monitors

<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">11</div> <div style="font-size: small;">Total</div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">0</div> <div style="font-size: small;">Not Sharing Data</div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">2</div> <div style="font-size: small;">Offline <small>(for 10 minutes or more)</small></div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">2</div> <div style="font-size: small;">Uninstalled</div>
<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">0</div> <div style="font-size: small;">Solar</div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">0</div> <div style="font-size: small;">Generator</div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">1</div> <div style="font-size: small;">400A</div>	<div style="border: 1px solid #ccc; padding: 5px; width: 60px; margin: 0 auto;">1</div> <div style="font-size: small;">Dedicated Circuit</div>

Status ▾	Job ID ▾	Serial Number ▾	Install Date ▾	Address ▾	Production (Yesterday)	Consumption (Yesterday)
UP		N041002835	11/11/2020	23 Wakefield Ave., Wakefield, MA	---	7.01 kWh
UP		N033000112	10/29/2020	23 Butternut , Wakefield, MA	---	19.29 kWh
UP		N034000028	11/03/2020	2 Stoney Hill, Wakefield, MA	---	27.47 kWh
UP		N032000433	11/07/2020	13 Jennifer rd, Wakefield, MA	---	42.97 kWh
UP		N033000569	11/02/2020		---	4.63 kWh
UP		N034000045	11/02/2020	3 Auburn St, Wakefield, MA	---	11.83 kWh
UP		N038001783	01/10/2021	157 Parker Rd., Wakefield, MA	---	24.67 kWh
OFFLINE		N040002162	01/06/2021	12 Linda Rd., Wakefield, MA	---	--
OFFLINE		N042030177	05/15/2021		---	--
PENDING		N011000399	---		---	--
PENDING		N035000244	---		---	--


Electric Vehicle Public Charging Stations

Dashboard – June 2021


EV Charging Stations				
Utility Billing and Town Revenue				
Jun-21				
Locations	Utility Billing	KWh	Town Revenue From Charge Point	KWh
Vets Field	\$65.10	345	\$60.68	332
Civic Center	\$7.40	45	\$11.82	45
Public Parking Lot	\$183.31	1072	\$226.41	1006
Totals	\$255.80	1462	\$298.91	1384

Environment
Lifetime

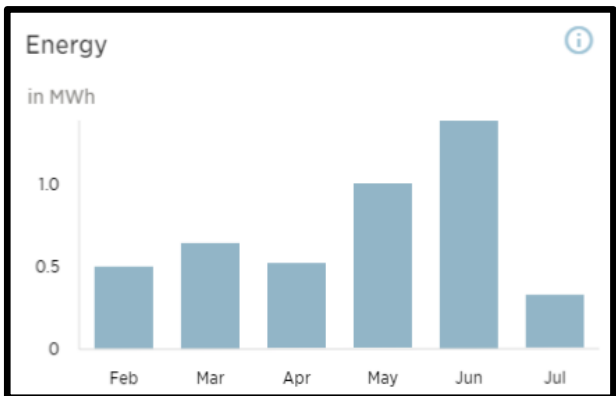
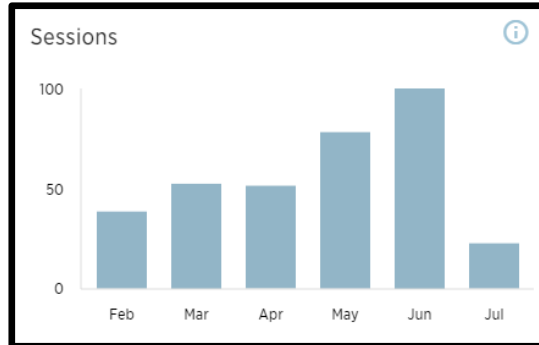
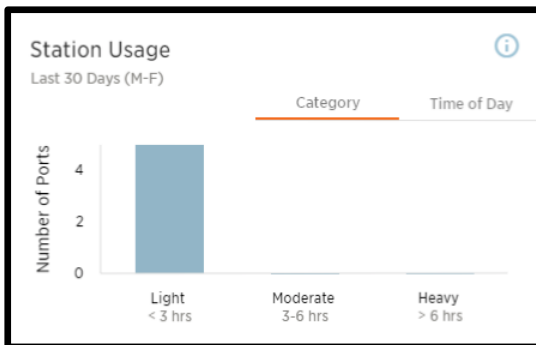
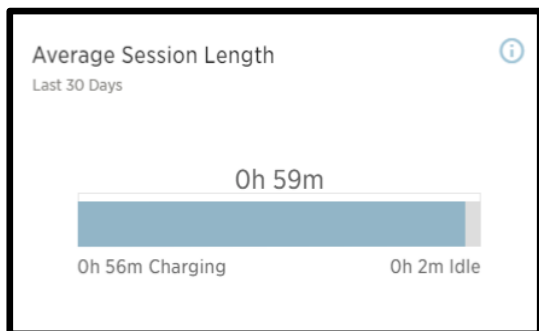
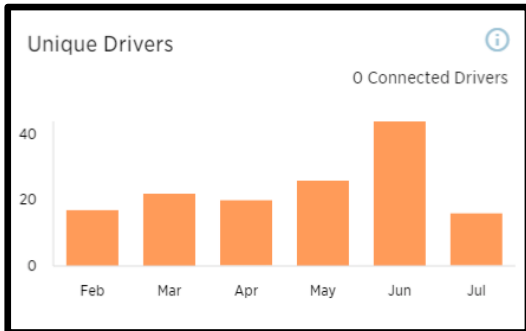
Here's how EV charging has helped:



You've avoided
4,992 kg
greenhouse gas emissions



that's like planting
128 trees
and letting them
grow for 10 years



SUNPOWER®

by BlueSel Home Solar
www.BlueSel.com

System Performance

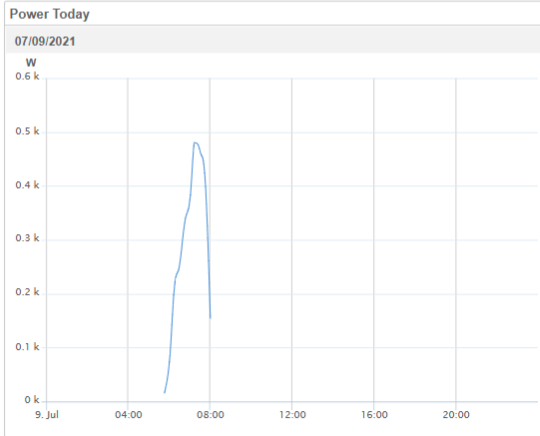
Current Power 356 W	Energy today 683 Wh	Energy this month 567.85 kWh	Lifetime energy 27.6 MWh
------------------------	------------------------	---------------------------------	-----------------------------

Environmental Benefits

CO2 Emission Saved
42,733.92 lb

Equivalent Trees Planted
322.89

Power and Energy



70% Chance of Light Rain
63 °F
Feels like 63 °F
Wind NNW, 1 MPH
Humidity 94 %
Sunrise at 05:16
Sunset at 20:23

Friday
72 - 66 °F
50% Chance of Storms

Saturday
77 - 64 °F
Partly Cloudy

Sunday
75 - 64 °F
Mostly Cloudy

Last update: 07/09/2021 8:07 AM



System Performance

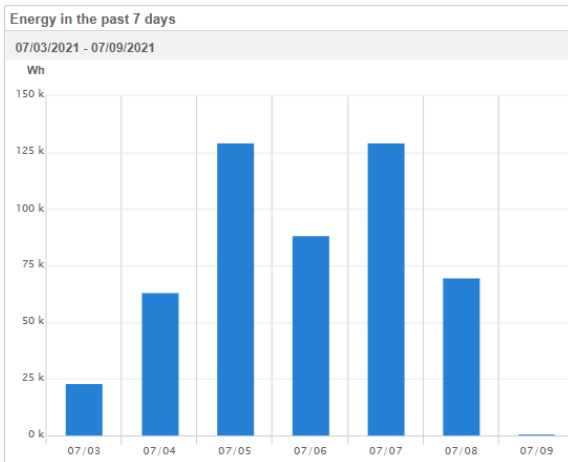
Current Power 356 W	Energy today 683 Wh	Energy this month 567.85 kWh	Lifetime energy 27.6 MWh
------------------------	------------------------	---------------------------------	-----------------------------

Environmental Benefits

CO2 Emission Saved
42,733.92 lb

Equivalent Trees Planted
322.89

Power and Energy



Last update: 07/09/2021 8:06 AM



General Manager's Report

The following is the General Managers Report for July, 2021

Engineering and Operations Report

Major New Customer Projects: (1,035 new residential housing units)

- **Harvard Mills** – convert portion of building to 190 apartments – Project under construction.
Convert building from 4kv ckt 397-03 to 13.8kv ckt 0005 (customer cost). Ductbank and switch installed, customer working on transformer foundation and mainline cable installed. **Work scheduled to resume on Monday 7/12**
- **Water St. at Delcarmine** - New 23 unit building residential - **Working on the foundation**
- **581-583 Salem St.** – New 19 unit apartment build – **Permitting Phase**
- **525-527 Salem St** – New 22 unit building – **Permitting Phase**
- **404 Lowell St.** – 8 Residential units – **Permitting Phase**
- **610 Salem St** – 20 Residential units – **Permitting Phase**
- **Foundry Street phase 2** – 58 unit condo complex and commercial space – **Permitting Phase**
- **Hopkins Street @ Tarrant Lane** - Project approved by the town 173 apartments 4 buildings proposed – **Planning and Permitting**
- **200 Quannapowitt** – 485 Apartments / 4-5 buildings / parking garage – **Permitting and Planning Phase**
- **127 Nahant St.** – 26 Residential units proposed – **Planning stage**
- **1000 Main Street** – 30 Residential units proposed – **Planning stage**

Major Project:

Wakefield Ave Substation – All new switchgear and (2) 3750kva transformers were energized on 9/30/2020. 4Kv cutovers completed as the end of 2020;

- Circuits 6 & 9 cutover to new equipment – **COMPLETE**
- Circuit 11 load cutover to 126-W27 – **COMPLETE**
- Circuit 4 load cutover to the new equipment – **COMPLETE**
- Circuit 3 load cutover to the new equipment – **COMPLETE**
- Circuits 3 and 4 tie – **COMPLETE**
- Old 4 KV switchgear de-energized – **COMPLETE**
- Old Transformers “F” and “H” de-energized and disconnected on both the 13.8kv and 4kv sides, also oil drained from both units. These transformers were 65-70 years old, equipment liability eliminated. - **COMPLETE**

- 13.8Kv Cutovers scheduled in 2021 Lines 1386 (**complete**), 1301 (**complete**), 1302 (**complete**) 126-W27 / 1718 (**complete**) & 1920 / 0005 (**Complete**)
- **Milestones** – all old outdoor 13.8kv equipment has been de-energized and all indoor 4kv and 13.8kv equipment has been de-energized - **REMOVAL of inside equipment is completed, outside equipment removal is in progress – will be removed in early June**
- Asbestos Abatement scheduled to start on 5/10 and inside and outside equipment scheduled to be removed starting on 5/28 – (**In Progress**)
- Building asbestos abatement schedule to start in July – **Scheduled**

4kv to 13.8kv conversions:

- Converting portions of ckt 9 on Water to ckt 443-W32 – (**on hold**)
- West Water St, Richardson and Foster St area – Preparing to convert from 4kv 397-02 to 13.8kv - 1302 / 0005 in Progress - Verizon completed – **OH Wire installed – Progress**
- 397-04 Ballister St area convert to 1302/0005 – (**ordering material**).
- 397-03 Lake St. and Maple to 0005 – (**Work to resume on 7/12/2021**)

System Maintenance:

- **Circuit 4 upgrade** – Replace and splice 9 sections of cable from Wakefield Ave substation to Albion St. This circuit supplies the downtown area. Currently downtown is serviced by circuit 3 (**COMPLETED**)
- **Anton’s Cleaners** – eliminate a 4kv mat with a padmount transformer – scheduled in May (**COMPLETED**)

Town Projects:

- **Albion Street** – Town is upgrading drains, water, street paving, & sidewalks. As part of the Town’s project they have requested we upgrade, replace, and relocate 18 street lights and possibly another 36 in the area (**Working**)
 - **Town has selected and ordered the new lights for Albion St.**

Gas Department

- The gas main installation by contractors on Lowell and Vernon Streets and on Cedar and Emerson Streets is complete. Services and tie overs will begin in July and continue through the rest of the year.
- Gas main installation and service tie overs on Sylvan Ave and Gail Cir are complete.

- 875 meters have been replaced so far this year with a target of 1091 for the year.
 - There are currently 2156 inside gas services and 2953 outside services. 72 services have been moved outside this year.
 - Leaks Class 1 – 0* Class 2 – 3 Class 3 –70
- * (0 - Class 1 Leaks this month)

Financial Reports

Monthly Financials for through April and Consumption Reports through May are enclosed.

Project Updates

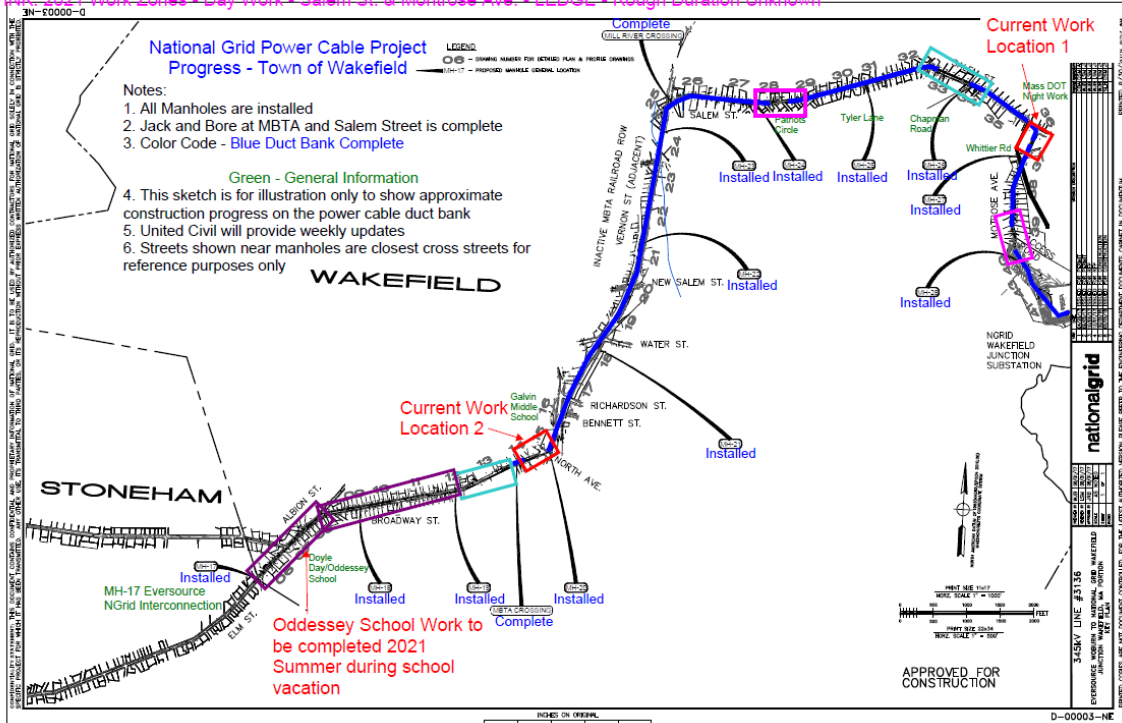
COVID 19

The department was reopened on May 3. 33 of our 41 employees have been vaccinated. We are following all CDC guidelines and we are maintaining a mask requirement for customers entering the building and for anyone on the staff that has not been vaccinated.

NGrid 345kv Project Update NGRID

- Work in the public ways resumed on March 8, 2021
- United Civil – currently working on Salem St.
 - Montrose 1-2 Weeks
 - Broadway 1 month
- United Civil – Scheduled days
 - Salem St and Broadway 6 weeks
 - Albion St and Broadway 6 months
- Eversource is also working on manholes and duct bank construction in Woburn and Stoneham.
- Note: MH-16 to 17 (United Civil trenching 200ft +/- from MH-17 to the Wakefield/Stoneham border) schedule to be determined. United Civil and McCourt (Eversource contractor) will coordinate the construction and will provide 3 weeks advance notice.
- Approx. 85 percent of the total duct bank route in Wakefield is complete.
- MBTA Crossing
 - Town of Wakefield is awaiting decision(s) by Federal Railroad Administration (FRA)

RED: Current Work Locations - Night Work - Montrose & Broadway St. - 1-2 weeks Montrose, and 1 month Broadway (34 Broadway to MH20)
 BLUE: Secondary 2021 Work Zones - Day Work - Salem St. & Broadway St. - Rough Duration 1.5 months
 PURPLE: Following 2021 Work Zones - Day Work - Albion St. & Broadway St. - Rough Duration 6 months
 PINK: 2021 Work Zones - Day Work - Salem St. & Montrose Ave. - LEDGE - Rough Duration Unknown



**Board of Commissioners
 July 14, 2021
 Agenda Item No. D-2**

2015 A

The DPU held its formal hearing on the financing of MMWEC Project 2015 A on Monday April 26, 2021. Consistent with some questions and discussion about the plant, there was testimony against the project but most of the testimony was not connected to the question before the DPU and pertained more to site issues. After the public comment period, the DPU Hearing Officers heard testimony from MMWEC and MCAN as a limited participant in the hearing. MMWEC has announced on May 11, following a Special Meeting of its Board to authorize a pause of plans for the siting of the peaking plant for a minimum of 30 days to further engage stakeholders and discuss alternatives. On June 15, 2021, MMWEC informed the DPU that it was continuing the pause and that it would provide an additional update on July 15, 2021. On June 22, 2021, a public information session was held on the project in Peabody. Approximately 120 people were in attendance. A detailed overview of the project, its justification and benefits, alternatives under consideration and financial impacts were discussed. In addition, any member of the public requesting a time to raise

questions or issues was given time. Approximately 45 people spoke. Answers to the questions asked are being posted on the Project 2015 A website. Links to the MMWEC presentation, the video of the meeting itself and the website are on our website.

No votes required at this time - Discussion only

**Board of Commissioners
July 14, 2021
Agenda Item No. D-3**

Gas Systems of the Future

As part of the Climate Bill, there is a focus on the future of the natural gas business. If there is a complete transition away from natural gas for heating, cooling and appliances, what would happen to the ratepayers that remain on the system as the transition takes place and what happens to the infrastructure in the long term. There are feasibility studies underway in a variety of areas that WMGLD will be participating in with heat.org, which is a privately funding group studying the impact of the Climate Bill on the gas industry in Massachusetts.

No votes required at this time - Discussion only

**Board of Commissioners
July 14, 2021
Agenda Item No. E-1**

June Heat Wave – Operations Overview

There were 9 days in the 90's in June of 2021. Our peaking resources were dispatched 7 times during the month to help curb our peak demand. As of today, the capacity peak for the year was on June 29, 2021 at 6 PM. System loads were monitored throughout the month. Seven transformers were identified as being overloaded at peak and either a second transformer was added (splitting the load) or the transformer was upgraded, depending on the situation.

No votes required at this time - Discussion only

**Board of Commissioners
July 14, 2021
Agenda Item No. E-2**

2021 Goals and Objectives – Mid Year update

Staff will review the 2021 Goal and Objectives and the status as of mid-year.

No votes required at this time - Discussion only

Executive Session

If necessary

APPENDICIES

**Wakefield Municipal Gas and Light Department
Comparative Balance Sheet - Electric Fund**

	4/30/2020	4/30/2021	
ASSETS			
Sinking Fund - Self Insurance	\$ 179,489.07	\$ 179,956.93	
Depreciation Fund	182,752.43	182,889.54	
Consumer Deposits	874,459.86	880,725.80	
Total Investments	<u>1,236,701.36</u>	<u>1,243,572.27</u>	
Operating Cash	12,555,762.97	14,557,536.53	
Depreciation Fund	2,721.13	2,722.50	
Consumer Deposits	286,969.84	325,086.09	
Petty Cash	525.00	525.00	
Total Cash	<u>12,845,978.94</u>	<u>14,885,870.12</u>	
Accounts Receivable-Rates	3,586,153.51	3,273,648.69	
Accounts Receivable-Other	2,336,995.84	1,992,221.70	
Inventory	522,660.26	730,916.93	
Prepayments Miscellaneous	1,097,416.86	1,077,055.85	
Prepayments Power	3,691,789.07	3,782,083.19	
Other Deferred Debits	1,112,116.18	1,134,583.18	
Total Other Assets	<u>12,347,131.72</u>	<u>11,990,509.54</u>	
Total Current Assets	26,429,812.02	28,119,951.93	
Distribution Plant	20,504,359.48	19,636,322.57	
General Plant	1,408,369.94	1,455,657.84	
Net Fixed Assets	<u>21,912,729.42</u>	<u>21,091,980.41</u>	
Total Assets	<u>\$ 48,342,541.44</u>	<u>\$ 49,211,932.34</u>	
LIABILITIES AND EQUITY			
Accounts Payable	\$ 57,702.13	\$ 1,219,687.20	
Consumer Deposits	1,161,429.70	1,205,811.89	
Other Accrued Liabilities	5,651.55	1,461.68	
Reserve for Uncollectable Accounts	108,563.84	218,397.21	
Total Current Liabilities	<u>1,333,347.22</u>	<u>2,645,357.98</u>	
Compensated Absences	460,003.07	467,256.96	
MMWEC Pooled Loan Debt	14,100,298.83	12,168,820.58	
OPEB Liability	1,915,566.25	1,936,702.25	
Pension Liability	7,948,500.00	7,743,000.00	
Total Long Term Liabilities	<u>24,424,368.15</u>	<u>22,315,779.79</u>	
Total Liabilities	25,757,715.37	24,961,137.77	
Retained Earnings	8,619,962.70	10,396,846.32	
Year to Date Income	2,827,649.26	1,916,596.28	
Sinking Fund Reserve-Self Ins	179,489.07	179,956.93	
Contribution in Aid of Construction	3,705,337.66	3,705,337.66	
Investment in Fixed Assets	7,252,387.38	8,052,057.38	
Total Equity	<u>22,584,826.07</u>	<u>24,250,794.57</u>	
Total Liabilities and Equity	<u>\$ 48,342,541.44</u>	<u>\$ 49,211,932.34</u>	

Wakefield Municipal Gas and Light Department
Income Statement - Electric Fund
For the Ten Months Ending, April 30, 2021

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
Energy Revenue (Net of Discounts)				
Residential Sales	\$ 960,978.33	\$ 933,780.46	\$ 10,951,329.13	\$ 11,697,166.78
Commercial Sales	878,774.43	872,392.57	10,549,661.47	9,440,551.92
Street Lighting	15,678.00	15,678.00	156,775.00	156,775.00
Municipal Sales	75,354.96	88,143.43	941,954.93	896,170.20
Private Area Lighting	7,382.00	7,399.00	74,508.57	73,806.83
Total Energy Revenue	1,938,167.72	1,917,393.46	22,674,229.10	22,264,470.73
Other Revenues				
Unbilled Revenue	-	-	-	-
Interest Income-Consumer Deposits	824.33	437.54	11,496.36	4,831.50
Interest Income-Depreciation Fund	11.61	11.38	118.97	115.34
Interest Income-Self Ins Sinking Fund	131.58	18.09	2,809.33	307.23
Interest Income-MMWEC	3,116.75	2,489.40	31,389.88	6,637.92
Income from Merchandise & Jobbing	-	18,198.14	(60,610.72)	(183,453.25)
Other Revenues	-	100.00	(770.83)	(6,010.26)
Sales Tax	47,822.29	46,006.99	571,181.43	514,369.45
Conservation Charge	7,948.95	15,104.29	58,670.39	124,566.47
Reconnect Fees	-	-	4,375.00	800.00
Comcast & RCN Pole Fees	-	-	33,763.36	103,955.37
Insurance Reimbursements	5,571.13	-	36,796.19	6,100.00
Other Electric Revenue	428.34	776.91	4,566.97	2,571.64
Total Other Revenue	65,854.98	83,142.74	693,786.33	574,791.41
Total Revenue	2,004,022.70	2,000,536.20	23,368,015.43	22,839,262.14
Power Costs				
Purchased Power	(1,006,140.24)	(943,285.45)	(11,970,672.40)	(11,506,431.84)
Power Expense Generation	(21,358.57)	(9,328.36)	(111,355.07)	(98,184.82)
Power Expense Battery	(15,128.75)	(6,756.74)	(84,279.00)	(69,210.83)
Total Power Costs	(1,042,627.56)	(959,370.55)	(12,166,306.47)	(11,673,827.49)
Gross Profit	\$ 961,395.14	\$ 1,041,165.65	\$ 11,201,708.96	\$ 11,165,434.65
Operating Expenses				
Miscellaneous Operating Expenses				
Depreciation Expense	(240,435.59)	(240,062.49)	(2,286,690.97)	(2,402,863.18)
Sales Tax	(47,822.29)	(46,006.99)	(571,106.82)	(514,369.45)
Interest Expense-Consumer Deposits	(1,979.18)	(379.94)	(28,416.01)	(13,576.67)
Interest Expense-MMWEC	0.00	(18,611.31)	(224,114.12)	(209,740.49)
Total Misc Operating Expenses	(290,237.06)	(305,060.73)	(3,110,327.92)	(3,140,549.79)
Distribution Expenses				
Operations Supervision and Engineering	(12,884.40)	(10,628.85)	(173,425.65)	(157,886.78)
Operations Labor	(650.16)	11,215.41	5,131.39	29,518.57
Substation Salaries and Expense	(41,142.71)	(58,690.08)	(432,490.39)	(520,059.36)
Customer Installation Expenses	(676.17)	293.72	(2,759.19)	(20,149.90)
Miscellaneous Distribution Expenses	(44,376.17)	(51,606.01)	(598,750.18)	(540,674.53)
Total Distribution Expenses	(99,729.61)	(109,415.81)	(1,202,294.02)	(1,209,252.00)

Wakefield Municipal Gas and Light Department
Income Statement - Electric Fund
For the Ten Months Ending, April 30, 2021

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
Maintenance Expenses				
Maintenance Supervision and Engineering	(16,467.70)	(17,543.60)	(156,165.10)	(181,374.20)
Maintenance of Station Equipment	-	-	(367.95)	(1,534.84)
Maintenance of Other Equipment	-	(2,895.00)	(6,580.04)	(6,772.02)
Maintenance of Overhead Lines	(86,285.61)	(185,323.33)	(556,212.15)	(638,148.94)
Maintenance of Underground Lines	-	(2,272.67)	(14,205.84)	(10,633.43)
Maintenance of Line Transformers	-	(8,365.00)	(877.50)	(8,365.00)
Maintenance of Street Lighting	-	-	(24,964.29)	(201.25)
Maintenance of Meters	(676.17)	(763.81)	(35,472.39)	290.57
Maintenance of Misc Distribution Plant	(6,431.02)	(3,430.98)	(46,985.97)	(39,519.96)
Total Maintenance Expenses	(109,860.50)	(220,594.39)	(841,831.23)	(886,259.07)
Customer Account Expense				
Meter Reading Expense	(3,817.34)	(3,885.02)	(35,935.17)	(61,387.50)
Customer Records & Collection Exp	(52,223.82)	(58,024.87)	(605,040.26)	(591,286.45)
Total Customer Account Exp	(56,041.16)	(61,909.89)	(640,975.43)	(652,673.95)
Administrative and General Expenses				
Community Relations & Advertising	(3,083.30)	(1,722.86)	(179,925.02)	(43,828.72)
Administrative Salaries and Expense	(22,023.52)	(16,179.52)	(184,237.04)	(179,997.29)
Business Mgr and Accting Salaries and Exp	(10,177.06)	(28,684.34)	(123,443.62)	(185,917.78)
MIS Salaries and Expense	(4,848.74)	(11,939.09)	(206,855.15)	(144,757.38)
Outside Services	-	-	(19,875.00)	(20,250.00)
Conservation & Rebates	(13,282.18)	(26,637.12)	(132,479.70)	(233,380.66)
Property Insurance	(4,740.25)	(5,375.08)	(47,402.50)	(53,750.84)
Injuries and Damages	(6,849.36)	(4,578.05)	(58,004.34)	(47,833.12)
Employee Pensions and Benefits	(153,153.86)	(136,153.04)	(1,406,353.75)	(1,450,527.29)
Miscellaneous General Expenses	(3,564.92)	(580.88)	(67,343.13)	(66,203.77)
Maintenance of General Plant	(6,528.00)	(8,168.76)	(104,805.43)	(116,238.01)
Total Admin & General Expenses	(228,251.19)	(240,018.74)	(2,530,724.68)	(2,542,684.86)
Net Income (Loss) Before Surplus Adjustments	\$ 177,275.62	\$ 104,166.09	\$ 2,875,555.68	\$ 2,734,014.98
Surplus Adjustments				
Additions				
Sale of Scrap	-	1,495.00	7,028.74	25,633.15
MMWEC Refund	-	-	534,347.98	46,343.35
Total Additions to Surplus	-	1,495.00	541,376.72	71,976.50
Subtractions				
Interest on Sinking Fund	131.58	18.09	2,809.33	307.23
Payment in Lieu of Taxes	56,532.00	57,380.00	565,320.00	573,800.00
Plant Removal Costs	-	-	21,153.81	353,665.71
Total Subtractions from Surplus	56,663.58	57,398.09	589,283.14	927,772.94
Net Income (Loss)	\$ 120,612.04	\$ 48,263.00	\$ 2,827,649.26	\$ 1,878,218.54

**Wakefield Municipal Gas and Light Department
Comparative Balance Sheet - Gas Fund**

	4/30/2020	4/30/2021
ASSETS		
Sinking Fund - Self Insurance	\$ 179,489.07	\$ 179,956.92
Consumer Deposits	96,031.16	96,727.41
Total Investments	275,520.23	276,684.33
Operating Cash	(14,760,315.45)	(15,613,111.01)
Consumer Deposits	188,598.84	201,207.27
Petty Cash	175.00	175.00
Total Cash	(14,571,541.61)	(15,411,728.74)
Accounts Receivable-Rates	1,186,920.88	1,112,466.24
Accounts Receivable-Other	133,341.36	-
Inventory	496,744.01	533,172.38
Prepayments Miscellaneous	155,393.66	161,646.76
Other Deferred Debits	433,245.83	389,251.13
Total Other Assets	2,405,645.74	2,196,536.51
Total Current Assets	(11,890,375.64)	(12,938,507.90)
Distribution Plant	23,561,279.57	24,744,925.35
General Plant	501,504.37	504,269.29
Net Fixed Assets	24,062,783.94	25,249,194.64
Total Assets	\$ 12,172,408.30	\$ 12,310,686.74
LIABILITIES AND EQUITY		
Accounts Payable	\$ (3,088.07)	\$ (17,583.90)
Consumer Deposits	284,630.00	297,934.68
Other Accrued Liabilities	4,171.08	367.72
Reserve for Uncollectable Accounts	108,563.83	218,397.21
Total Current Liabilities	394,276.84	499,115.71
Compensated Absences	235,784.91	267,026.80
OPEB Liability	537,034.75	544,080.75
Pension Liability	2,649,500.00	2,581,000.00
Total Long Term Liabilities	3,422,319.66	3,392,107.55
Total Liabilities	3,816,596.50	3,891,223.26
Retained Earnings	(15,599,805.12)	(16,102,248.00)
Year to Date Income (Loss)	844,823.18	575,732.89
Sinking Fund Reserve-Self Ins	179,489.07	179,956.92
Contribution in Aid of Construction	13,600.00	13,600.00
Investment in Fixed Assets	22,917,704.67	23,752,421.67
Total Equity	8,355,811.80	8,419,463.48
Total Liabilities and Equity	\$ 12,172,408.30	\$ 12,310,686.74

Wakefield Municipal Gas and Light Department
Income Statement - Gas Fund
For the Ten Months Ending, April 30, 2021

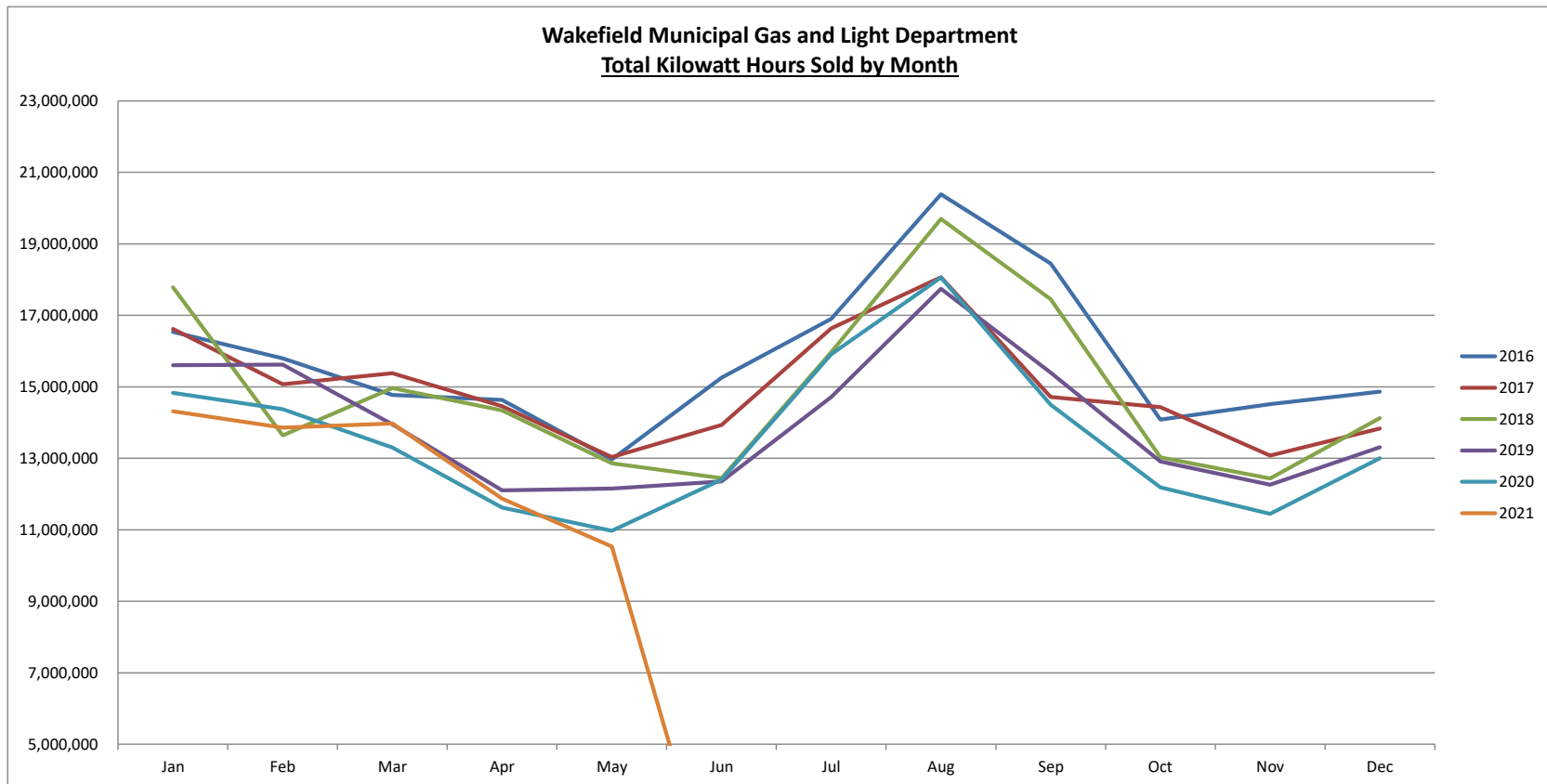
	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
Energy Revenue (Net of Discounts)				
Residential Sales	\$655,440.42	\$636,111.33	\$6,121,322.23	\$6,174,714.11
Commercial Sales	165,206.23	195,180.33	1,796,148.08	1,870,514.52
Municipal Sales	55,463.87	60,893.31	623,727.57	681,574.60
Total Energy Revenue	876,110.52	892,184.97	8,541,197.88	8,726,803.23
Other Revenues				
Unbilled Revenue	-	-	-	-
Interest Income-Consumer Deposits	91.59	48.61	1,277.40	536.87
Interest Income-Self Ins Sinking Fund	131.58	18.08	2,809.33	307.21
Income from Merchandise & Jobbing	(57,961.59)	(1,844.24)	225,727.79	35,958.50
Special Gas Charges	-	200.60	4,065.02	3,522.30
Sales Tax	7,963.23	8,896.89	84,991.25	89,330.67
Reconnect Fees	-	-	50.00	50.00
Insurance Reimbursements	-	-	-	-
Other Gas Revenue	-	(925.97)	20,156.45	7,069.27
Total Other Revenue	(49,775.19)	6,393.97	339,077.24	136,774.82
Total Revenue	826,335.33	898,578.94	8,880,275.12	8,863,578.05
Gas Purchased	(349,093.61)	(289,070.57)	(4,517,282.10)	(4,483,093.63)
Gross Profit	\$ 477,241.72	\$ 609,508.37	\$ 4,362,993.02	\$ 4,380,484.42
Operating Expenses				
Miscellaneous Operating Expenses				
Depreciation Expense	(156,760.47)	(163,872.56)	(1,318,059.80)	(1,596,052.68)
Sales Tax	(7,963.23)	(8,896.89)	(84,850.88)	(89,330.67)
Interest Expense-Consumer Deposits	(494.79)	(94.99)	(7,104.00)	(3,394.17)
Interest Expense-MMWEC	-	-	(2,925.80)	-
Total Misc Operating Expenses	(165,218.49)	(172,864.44)	(1,412,940.48)	(1,688,777.52)
Distribution Expenses				
Operations Supervision and Engineering	(26,500.40)	(25,233.44)	(165,700.90)	(182,089.78)
Station Labor and Expenses	(14,868.46)	(14,157.09)	(171,180.24)	(150,834.45)
Mains and Service	(5,519.54)	1,461.68	(53,414.25)	(44,107.91)
Customer Installation Expenses	(34,819.83)	(504.42)	(187,837.93)	(96,406.26)
Miscellaneous Plant Expenses	(2,529.96)	(1,234.30)	(85,169.14)	(67,714.55)
Total Distribution Expenses	(84,238.19)	(39,667.57)	(663,302.46)	(541,152.95)
Maintenance Expenses				
Maintenance of Mains	(40,524.93)	(9,558.00)	(257,148.57)	(263,738.96)
Maintenance of Meters and House Regulators	-	(4,227.98)	(14,189.40)	(14,715.85)
Maintenance of Other Equipment	(3,432.78)	(314.24)	(18,643.19)	(24,583.04)
Total Maintenance Expenses	(43,957.71)	(14,100.22)	(289,981.16)	(303,037.85)
Customer Account Expense				
Meter Reading Expense	(1,272.45)	(1,295.01)	(11,978.43)	(20,462.49)
Customer Record and Collection Expenses	(19,204.92)	(21,341.62)	(220,717.91)	(213,032.46)
Total Customer Account Expenses	(20,477.37)	(22,636.63)	(232,696.34)	(233,494.95)

Wakefield Municipal Gas and Light Department
Income Statement - Gas Fund
For the Ten Months Ending, April 30, 2021

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
Administrative and General Expenses				
Advertising	(1,027.77)	-	(3,478.88)	(5,524.56)
Administrative Salaries and Expense	(7,141.18)	(5,193.18)	(70,382.41)	(57,999.06)
Business Mgr and Accting Salaries and Exp	(3,323.79)	(3,056.20)	(37,995.97)	(50,011.99)
MIS Salaries and Expense	(1,616.25)	(3,979.69)	(68,951.62)	(48,252.45)
Outside Services	(3,374.95)	-	(21,908.50)	(11,087.50)
Property Insurance	(300.67)	(329.08)	(3,006.66)	(3,290.84)
Injuries and Damages	(25,143.89)	(167.70)	(36,206.25)	(11,741.50)
Employee Pensions and Benefits	(53,050.77)	(33,223.68)	(377,500.38)	(390,824.50)
Miscellaneous General Expenses	33.50	(23.49)	(27,771.84)	(39,214.45)
Maintenance of General Plant	(2,176.00)	(1,459.25)	(35,267.33)	(21,862.91)
Total Admin & General Expenses	(97,121.77)	(47,432.27)	(682,469.84)	(639,809.76)
Net Income (Loss) Before Surplus Adjustments				
Adjustments	\$66,228.19	\$312,807.24	\$1,081,602.74	\$974,211.39
Surplus Adjustments				
Additions	-	-	-	-
Subtractions	-	-	-	-
Interest on sinking fund investment	131.58	18.08	2,809.33	307.21
Payment in Lieu of Taxes	18,844.00	19,126.67	188,440.00	191,266.66
Plant Removal Costs	-	-	45,530.23	206,904.63
Total Subtractions from Surplus	18,975.58	19,144.75	236,779.56	398,478.50
Net Income (Loss)	\$47,252.61	\$293,662.49	\$844,823.18	\$575,732.89

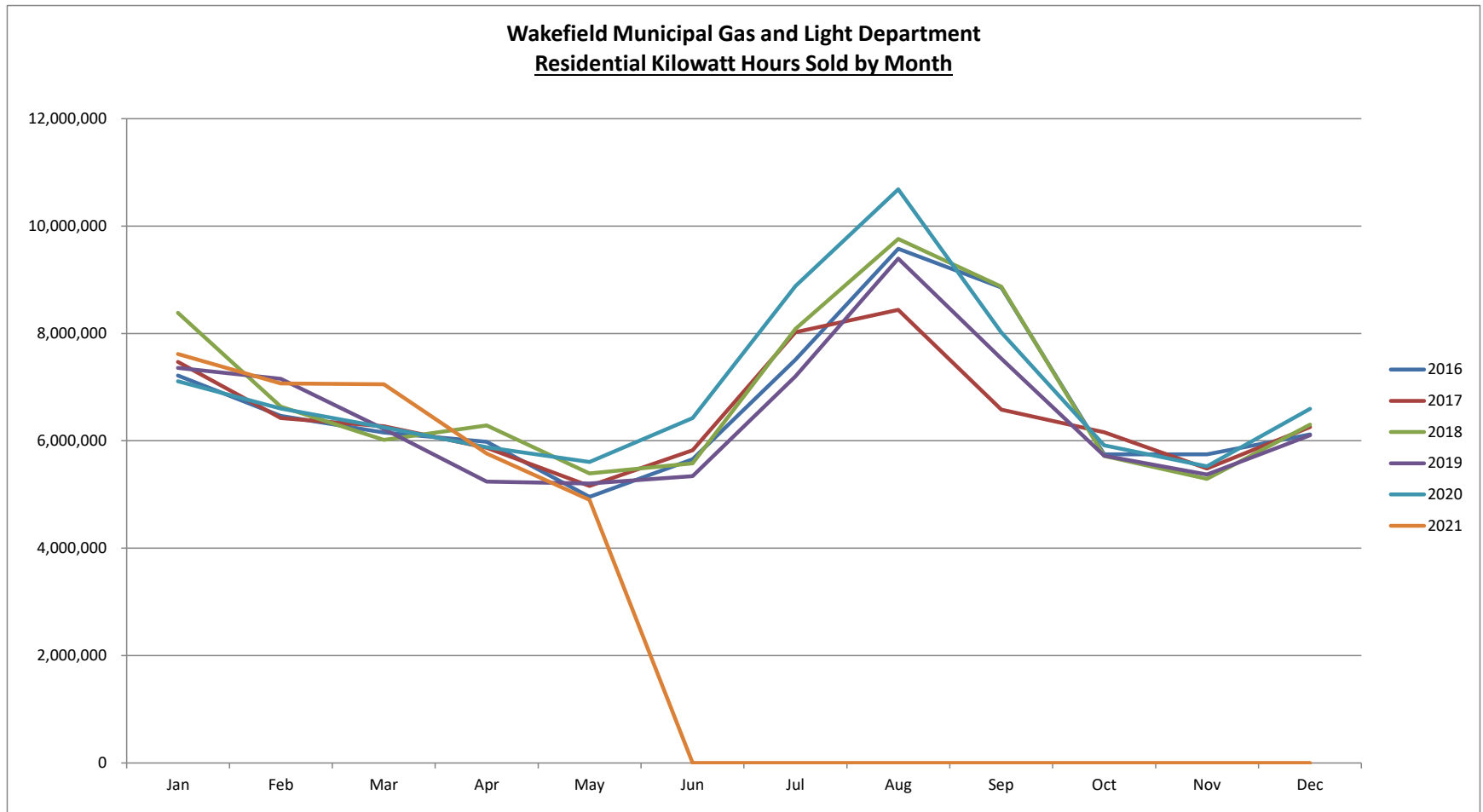
Wakefield Municipal Gas and Light Department
Total Kilowatt Hours Sold by Month

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	18,740,892	17,690,022	16,080,730	15,466,811	14,598,701	14,223,390	17,889,206	18,246,969	20,317,312	14,434,902	13,189,867	14,852,037	82,577,156	195,730,839
2016	16,533,974	15,797,950	14,772,758	14,634,278	12,966,436	15,255,131	16,901,222	20,390,535	18,447,864	14,084,731	14,517,900	14,862,522	74,705,396	189,165,301
2017	16,621,327	15,070,229	15,380,671	14,453,301	13,037,016	13,930,871	16,639,208	18,069,872	14,713,966	14,432,674	13,077,414	13,830,767	74,562,544	179,257,316
2018	17,781,658	13,643,198	14,968,016	14,337,800	12,863,470	12,441,286	15,974,013	19,698,047	17,452,170	13,030,487	12,439,795	14,124,456	73,594,142	178,754,396
2019	15,603,457	15,622,295	13,945,735	12,101,427	12,149,665	12,351,319	14,712,024	17,745,521	15,394,404	12,913,523	12,257,655	13,307,183	69,422,579	168,104,208
2020	14,828,122	14,373,838	13,299,621	11,620,258	10,978,443	12,406,390	15,909,116	18,062,379	14,494,332	12,189,623	11,444,845	12,998,123	65,100,282	162,605,090
2021	14,315,035	13,860,939	13,975,661	11,872,008	10,531,822	0	0	0	0	0	0	0	64,555,465	64,555,465



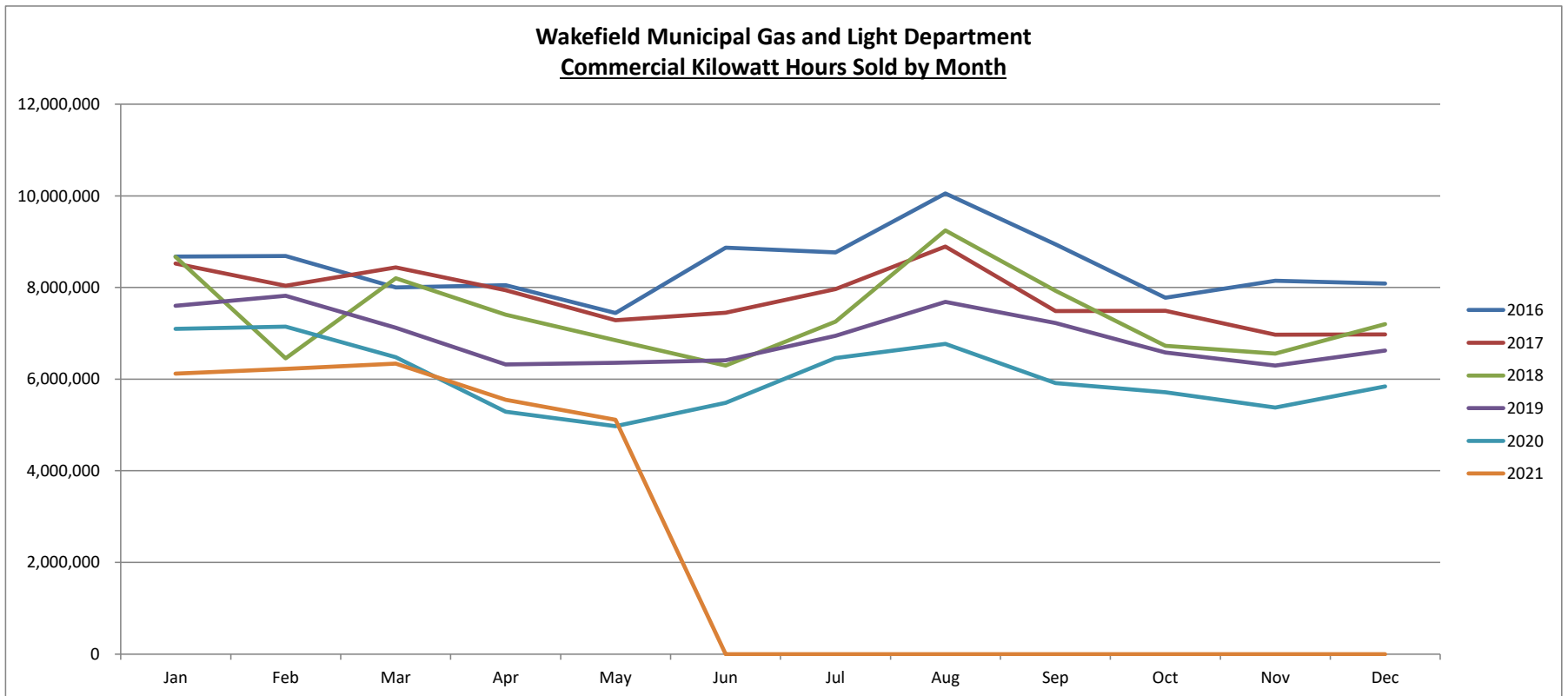
Wakefield Municipal Gas and Light Department
Residential Kilowatt Hours Sold by Month

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	8,178,424	7,676,232	6,887,656	6,114,348	5,604,983	5,522,641	7,546,631	8,356,952	9,266,873	6,082,228	5,246,984	5,899,584	34,461,643	82,383,536
2016	7,213,246	6,462,572	6,152,141	5,983,207	4,954,943	5,656,308	7,510,425	9,575,466	8,857,734	5,745,728	5,748,680	6,120,760	30,766,109	79,981,210
2017	7,467,150	6,424,129	6,270,260	5,869,151	5,160,098	5,826,264	8,024,557	8,439,346	6,581,965	6,158,377	5,483,264	6,253,864	31,190,788	77,958,425
2018	8,381,831	6,634,709	6,019,617	6,286,768	5,394,451	5,580,611	8,081,951	9,761,016	8,872,178	5,715,595	5,291,009	6,301,934	32,717,376	82,321,670
2019	7,355,946	7,154,845	6,221,898	5,239,541	5,205,792	5,339,985	7,199,576	9,395,819	7,528,296	5,721,653	5,370,353	6,105,033	31,178,022	77,838,737
2020	7,106,825	6,598,732	6,252,606	5,879,621	5,608,073	6,424,574	8,879,896	10,682,850	8,020,241	5,915,271	5,522,660	6,595,284	31,445,857	83,486,633
2021	7,615,309	7,068,224	7,051,410	5,762,053	4,899,949	0	0	0	0	0	0	0	32,396,945	32,396,945



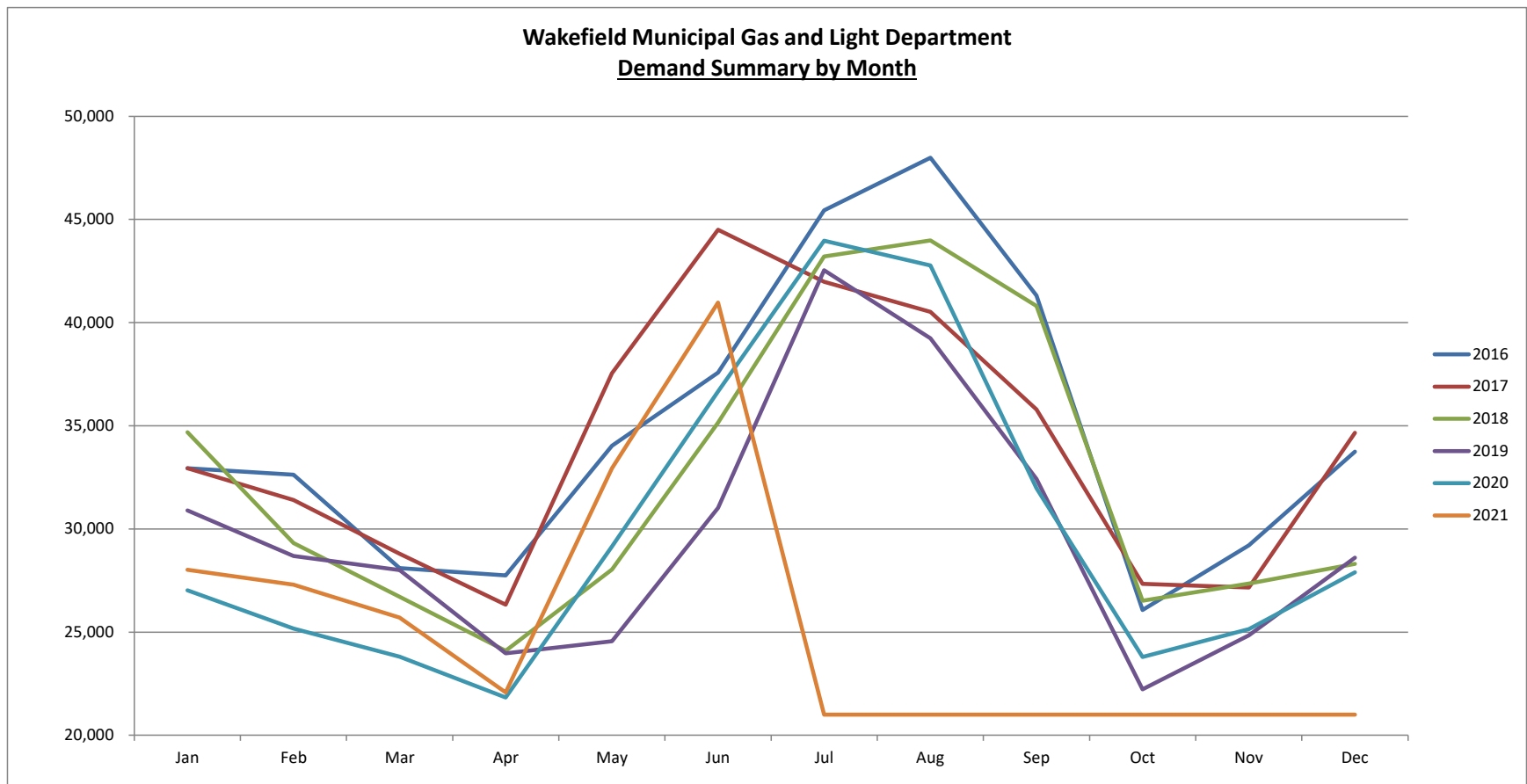
**Wakefield Municipal Gas and Light Department
Commercial Kilowatt Hours Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	9,967,369	9,469,303	8,613,429	8,821,582	8,262,753	8,094,609	9,621,561	9,232,271	10,201,316	7,791,890	7,309,757	8,355,668	45,134,436	105,741,508
2016	8,673,865	8,689,011	7,999,923	8,051,075	7,445,033	8,872,760	8,766,522	10,055,972	8,941,165	7,779,242	8,150,450	8,087,516	40,858,907	101,512,534
2017	8,523,398	8,036,867	8,440,054	7,944,183	7,284,920	7,449,910	7,967,311	8,893,548	7,485,167	7,489,927	6,972,575	6,974,940	40,229,422	93,462,800
2018	8,672,072	6,454,777	8,202,783	7,408,045	6,850,856	6,298,357	7,254,302	9,246,878	7,926,678	6,730,578	6,558,328	7,202,785	37,588,533	88,806,439
2019	7,598,845	7,821,861	7,121,215	6,321,095	6,359,892	6,410,293	6,948,166	7,687,622	7,224,317	6,582,051	6,298,066	6,622,414	35,222,908	82,995,837
2020	7,099,814	7,145,647	6,479,516	5,287,598	4,976,694	5,480,761	6,462,708	6,769,061	5,912,086	5,713,612	5,380,420	5,840,667	30,989,269	72,548,584
2021	6,120,226	6,226,617	6,338,424	5,549,735	5,114,423	0	0	0	0	0	0	0	29,349,425	29,349,425



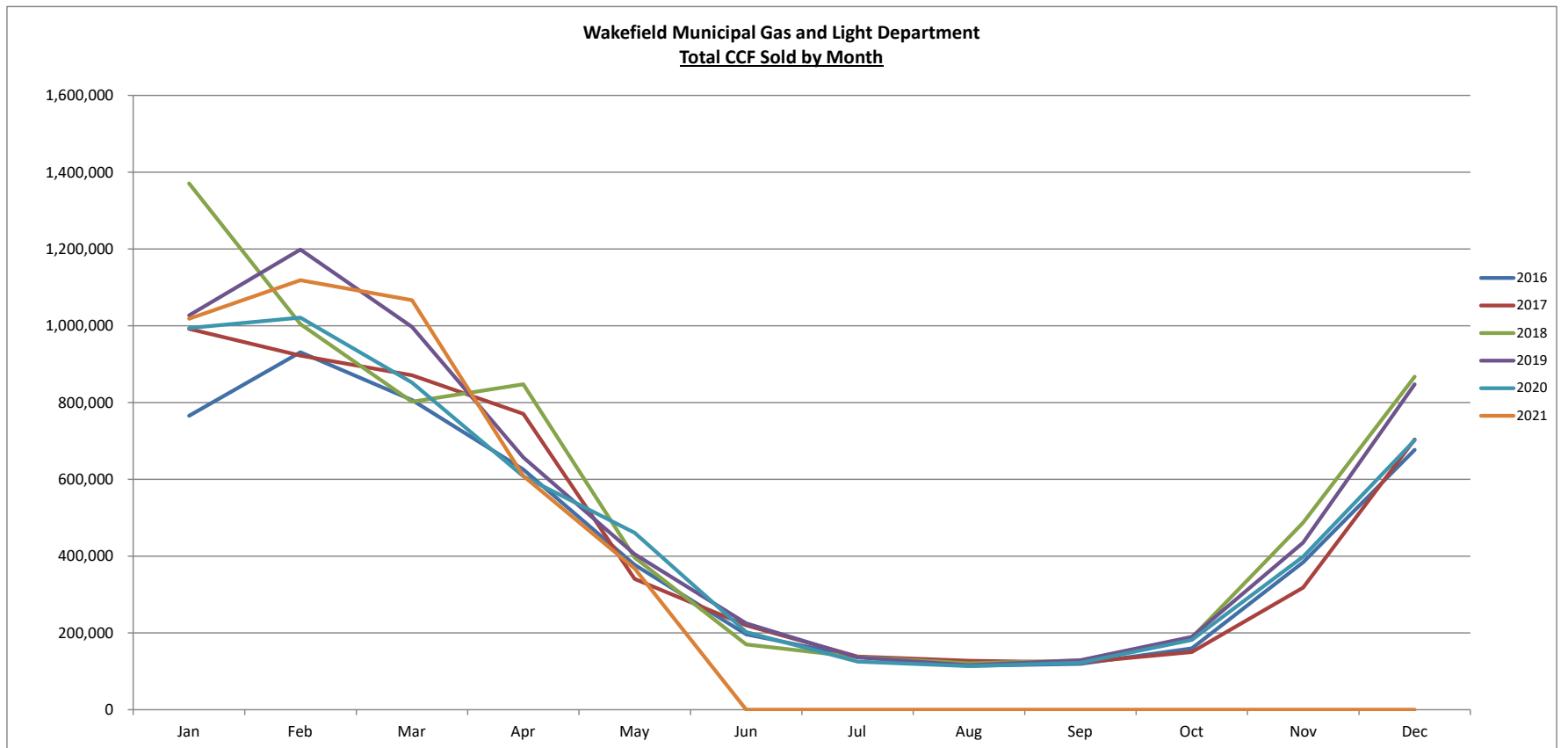
**Wakefield Municipal Gas and Light Department
Demand Summary by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Jun	Annual Total
2016	32,943	32,626	28,103	27,751	34,030	37,581	45,442	47,999	41,318	26,069	29,200	33,750	93,672	416,812
2017	32,945	31,399	28,795	26,326	37,549	44,504	41,984	40,522	35,784	27,334	27,166	34,658	93,139	408,966
2018	34,692	29,316	26,712	24,091	28,039	35,145	43,210	43,982	40,807	26,527	27,350	28,308	90,720	388,179
2019	30,896	28,694	28,005	23,973	24,561	31,013	42,538	39,245	32,423	22,226	24,847	28,610	87,595	357,031
2020	27,031	25,166	23,806	21,823	29,147	36,658	43,966	42,773	31,971	23,789	25,149	27,898	76,003	359,177
2021	28,023	27,300	25,704	22,075	32,944	40,975	21,000	21,000	21,000	21,000	21,000	21,000	81,027	303,021



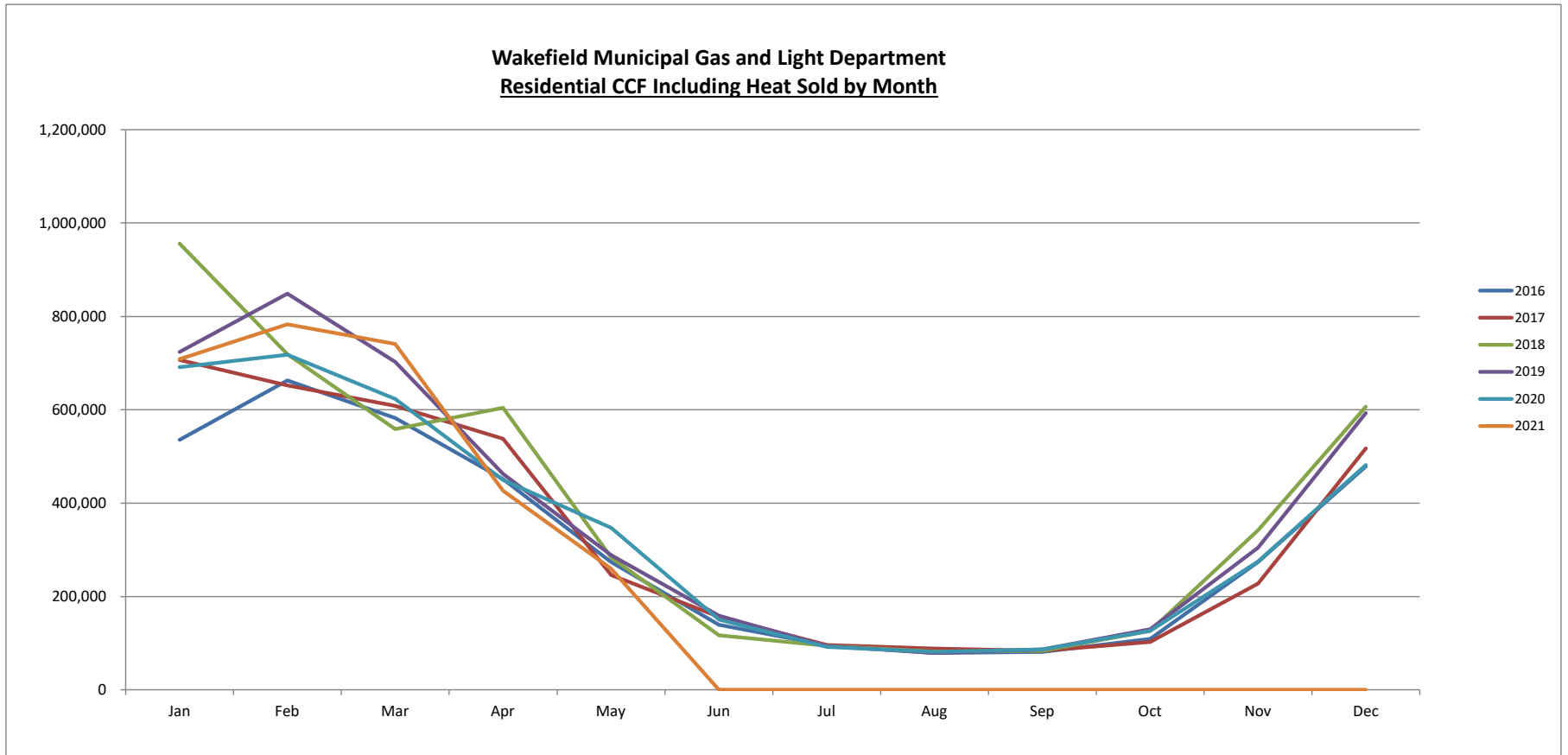
**Wakefield Municipal Gas and Light Department
Total CCF Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	1,009,763	1,262,240	1,132,746	790,303	376,704	162,785	143,849	113,013	124,003	165,477	321,060	533,054	4,571,756	6,134,997
2016	765,531	931,089	806,477	625,895	377,396	196,282	137,576	114,295	119,858	159,642	383,967	676,788	3,506,388	5,294,796
2017	992,147	922,194	871,001	770,881	341,035	219,847	138,513	127,619	122,846	150,433	318,338	704,061	3,897,258	5,678,915
2018	1,370,550	1,004,477	802,171	848,137	396,183	170,309	137,249	120,845	127,950	187,532	487,660	867,528	4,421,518	6,520,591
2019	1,027,554	1,198,806	997,533	657,267	405,201	224,983	136,083	116,142	129,215	189,712	435,624	847,819	4,286,361	6,365,939
2020	994,568	1,020,971	852,440	608,122	461,181	202,283	125,139	113,927	122,475	182,071	398,894	701,805	3,937,282	5,783,876
2021	1,018,323	1,118,751	1,067,083	609,268	368,207	0	0	0	0	0	0	0	4,181,632	4,181,632



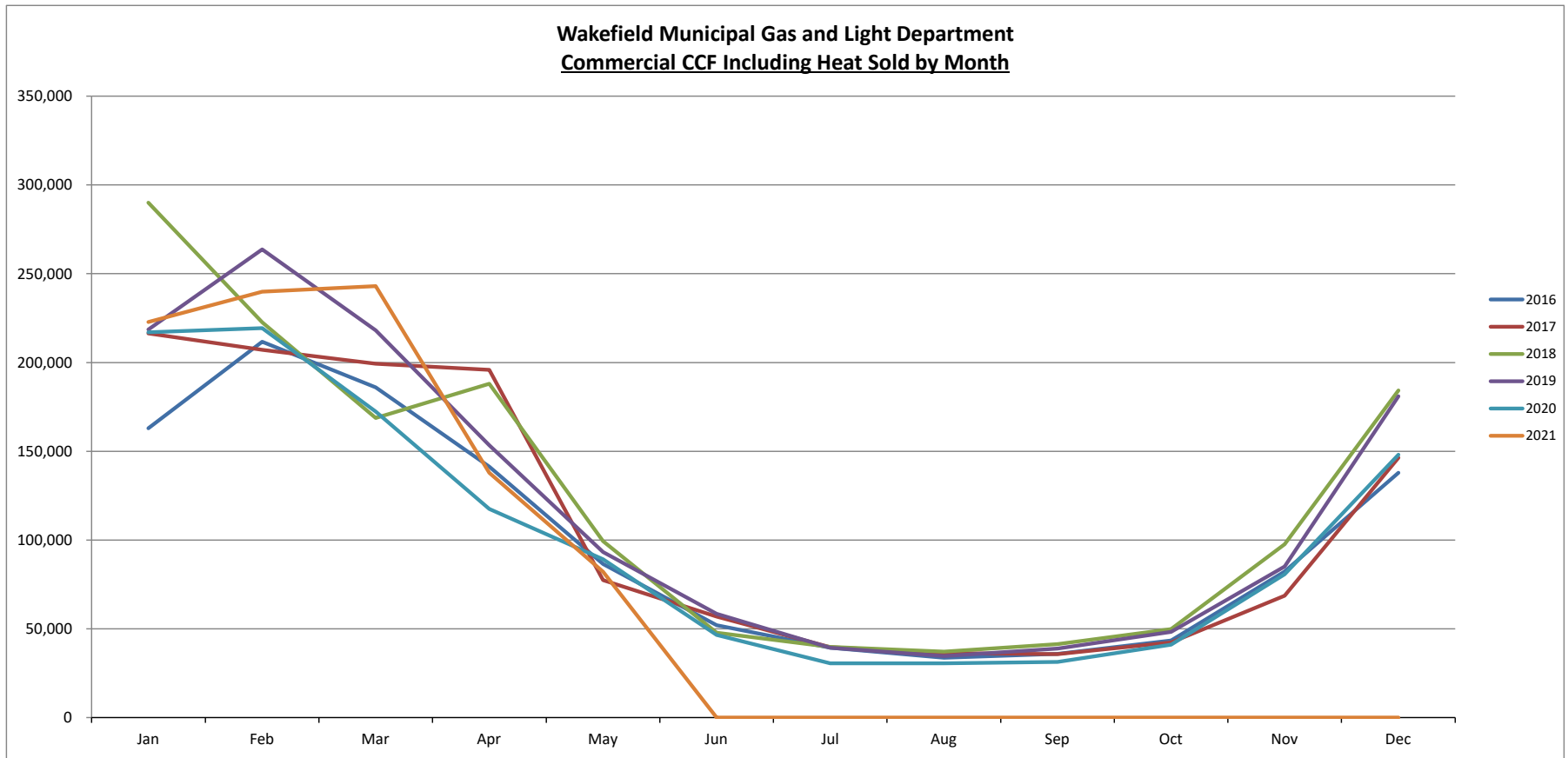
**Wakefield Municipal Gas and Light Department
Residential CCF Including Heat Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	709,258	882,366	804,314	567,283	271,108	114,243	102,782	78,644	86,567	113,195	226,095	377,416	3,234,329	4,333,271
2016	535,549	662,659	582,337	451,806	273,729	139,457	95,766	78,465	81,548	109,253	273,630	478,948	2,506,080	3,763,147
2017	706,641	652,293	608,703	537,827	246,194	156,746	96,121	88,308	83,699	102,620	227,364	517,605	2,751,658	4,024,121
2018	955,996	719,247	559,069	604,296	284,006	117,101	94,578	81,483	83,489	126,051	341,704	606,524	3,122,614	4,573,544
2019	723,933	849,023	702,875	462,667	288,440	158,602	93,767	78,965	86,479	129,638	304,511	593,201	3,026,938	4,472,101
2020	691,648	718,153	623,618	449,871	347,517	150,699	92,145	81,363	86,869	126,324	274,836	481,957	2,830,807	4,125,000
2021	708,777	783,101	741,456	426,617	259,753	0	0	0	0	0	0	0	2,919,704	2,919,704



**Wakefield Municipal Gas and Light Department
Commercial CCF Including Heat Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru May	Annual Total
2015	211,670	280,348	255,703	184,532	88,149	42,594	37,791	32,329	34,412	42,841	69,578	114,429	1,020,402	1,394,376
2016	163,042	211,741	186,069	141,396	86,581	52,156	39,363	33,659	36,024	43,452	82,379	138,006	788,829	1,213,868
2017	216,460	207,247	199,361	195,882	77,406	56,935	39,707	36,467	35,684	42,359	68,622	146,446	896,356	1,322,576
2018	290,000	222,668	168,757	188,150	99,393	47,799	39,904	37,080	41,507	49,921	97,681	184,325	968,968	1,467,185
2019	218,646	263,667	218,111	153,398	93,310	58,477	39,440	34,670	38,851	48,314	85,137	181,045	947,132	1,433,066
2020	217,069	219,428	172,432	117,609	89,169	46,614	30,586	30,645	31,361	41,120	80,742	148,067	815,707	1,224,842
2021	222,839	240,034	243,002	138,014	82,144	0	0	0	0	0	0	0	926,033	926,033





Project 2015A History and Executive Summary

Project Facts

Project 2015A is a 55 megawatt (MW) capacity resource to be built in Peabody, Mass. It is to be built on a city-owned site that is home to Peabody Municipal Light Plant (PMLP) generating facilities. The site's existing infrastructure, as well as its location in an import-constrained zone near Boston, are advantageous to this project. The proposed plant is a component of MMWEC's strategic plan to assist its member light departments' increase their carbon-free portfolio mix. Part of that plan was for MMWEC to sell its ownership in an oil-fired energy plant in Maine. Project 2015A – which would be used for *capacity* rather than *energy* – would help replace the capacity that oil energy plant provided to the participating utilities.

Participating municipal utilities include those in: Boylston, Chicopee, Holden, Holyoke, Hull, Mansfield, Marblehead, Peabody, Russell, Shrewsbury, South Hadley, Sterling, Wakefield and West Boylston.

History/Timeline

The project was conceived, and research and development commenced, in 2015. It was presented to each of the 14 participating municipal light plant (MLP) boards in 2015, and the boards each voted to participate in the project. The project's power sales agreements were signed in 2017. The project cleared the ISO New England Forward Capacity Auction (FCA) in February of 2018. At this time, permitting is being completed, the project has been bid, and an engineer, procure and construct (EPC) contract has been executed. The project has its air and acid rain permits, and is currently undergoing the MA DPU process to bond for the project.

Project 2015A's Role

Project 2015A is being built as a reliability and capacity resource. It is not an energy resource. The MLPs are required, by ISO New England, to serve 100% of their load, plus purchase an additional amount of approximately 40% of their load, of *capacity*, to be available if needed – thus ensuring that each load-serving entity has secured approximately 140% of their load. Since the MLPs are able to own assets, owning the project and fulfilling their capacity requirements this way helps them to stabilize rates, hedge against volatile capacity prices, and plan for the future.

As a capacity resource, the project is estimated to run approximately 239 hours per year, or only 2.72% of the time. As a new efficient resource, it has a lower emissions rate than 94% of similar resources in the region. That means when it does get called on to run by ISO New England, it will most likely be displacing a less efficient resource, resulting in a *net reduction* in emissions.

Project 2015A also helps participating MLPs incorporate additional carbon-free resources, such as solar, wind and energy storage. By locking up a portion of their required *capacity* in Project 2015A, they can increase the amount of *energy* they get from renewables.

The increase of solar and wind on the grid requires so-called balancing resources, such as Project 2015A, to run when the sun doesn't shine and the wind doesn't blow. Additionally, as we move toward increased electrification of heating and transportation over the next several decades, new reliability resources such as Project 2015A will be needed on the grid. Both ISO New England (2019 Regional System Plan) and the Commonwealth of Massachusetts (2050 Decarbonization Roadmap) have referenced the need for such capacity resources in the future.

The Process

Who was notified, and when?

The following offices/agencies were notified of the filing of the Environmental Notification Form (ENF) for "MMWEC Simple Cycle Gas Turbine Project" and its publication in the Environmental Monitor. They were notified no more than 30 days prior to and before its publication on September 7, 2016. A public site visit and consultation session for the project was held September 21, 2016. A final decision from the MA Executive Office of Energy and Environmental Affairs that the ENF satisfies all state environmental requirements and does not require an Environmental Impact Report (EIR) was issued on October 7, 2016.

The Environmental Notification Form was sent to:

Secretary of Energy and Environmental Affairs, MassDEP Commissioner, MassDEP Northeast Regional Office MEPA Coordinator, MassDEP Northeast Regional Office Division of Air Quality Control, MA Department of Transportation Public/Private Development Unit and District 4 Office MEPA Coordinator, MA Historical Commission, Coastal Zone Management Project Review Coordinator, Division of Marine Fisheries (North Shore) Environmental Reviewer, MA Department of Safety/State Fire Marshal, MA Water Resources Authority MEPA Coordinator, Metropolitan Area Planning Council North Shore Task Force.

Also: City of Peabody Mayor, City of Peabody City Council; City of Peabody Department of Community Development and Planning; City of Peabody Conservation Commission; City of Peabody Health Department.

A public notice that the ENF was filed was also included in the Weekly News newspaper on September 1, 2016. The notice referenced the "MMWEC Simple Cycle Gas Turbine Project," explained the process and provided information on how to submit comments or be notified about further information about the project, a site visit, or consultation session. A site visit was held on September 20, 2016.

Permitting and Review

The Commonwealth and Federal permitting processes examined environmental and health concerns. The air modeling conducted during the air permitting process assessed the worst-case scenario – the impact of the Project, all other off-site interactive sources of air emissions, and ambient

air emissions. The worst-case scenario resulted in all emissions falling significantly below the federal and state air quality standards which were developed to ensure public health and welfare.

MEPA:

The MEPA Environmental Notification Review assesses all aspects of the Project that may cause damage to the environment as defined in the MEPA regulations and includes the following:

- Site Alternatives
- Technology Alternatives
- Air Quality
- Wetlands and Storm Water
- Climate Change Adaptation
- Water and Wastewater
- Historic Reference
- Hazardous Materials
- Construction Controls

Air Permit:

The Non-Major Comprehensive Plan Application (NMCPA) assesses all forms of air contaminants resulting from the Project and imposes requirements consistent with Best Available Control Technology. Included in the NMCPA are the following:

- Regulatory Applicability – Air Pollutants
- Air Quality Standards
- Significant Impact Analyses
- Dispersion Modeling
- Ammonia Controls (Not Applicable since Urea will be used as a NO_x reduction reagent instead of Ammonia)
- Sound Analyses
- Applicable (specifically to the Project) Air Emissions Limits
- Monitoring and Testing Requirements
- Record Keeping Requirements
- Reporting Requirements

Recent Developments

Due to the rapidly changing energy landscape and evolving public policy regarding climate change, the project has come under public scrutiny. MMWEC recently announced a “pause” in the project while it re-evaluates and explores alternatives and potential options.

The 14 participating MLPs would be hit with a potential cost of \$30 million or more if the project is canceled. As non-profit utilities, they cannot absorb this cost, and this would therefore harm their customers.

During the “pause,” the project was re-examined, and other technologies, including batteries, have been considered, for the site. MMWEC spoke with five different battery developers over the past several weeks, but have determined that battery storage is not a viable replacement for Project 2015A on the Peabody site. MMWEC and its Members are supporters of batteries. Five MMWEC members have batteries in their communities now, and several others are considering them.

While batteries may not be a suitable alternative for this site, MMWEC has engaged the project manufacturer, Pratt & Whitney/Mitsubishi, about incorporating green hydrogen into the fuel mix. The manufacturer believes the equipment can accommodate a small percentage of hydrogen into the fuel mix by the commercial operation date, with plans to increase the hydrogen share of the fuel mix over future years.

Other changes to the project made during the pause include the elimination of a new 200,000 gallon oil storage tank, and a switch from using ammonia to non-hazardous urea in the fuel delivery process.

More information on the project, including a “Frequently Asked Questions” document, can be found on the project website, www.project2015A.org.

Time	MW Value	MW Value +	Generato	Batter
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6/1/2021 1:00:00.000 AM	11.5325	11.5325		
6/1/2021 2:00:00.000 AM	11.0884	11.0884		
6/1/2021 3:00:00.000 AM	11.3529	11.3529		
6/1/2021 4:00:00.000 AM	12.5691	12.5691		
6/1/2021 5:00:00.000 AM	14.4478	14.4478		
6/1/2021 6:00:00.000 AM	16.0554	16.0554		
6/1/2021 7:00:00.000 AM	17.8022	17.8022		
6/1/2021 8:00:00.000 AM	18.6625	18.6625		
6/1/2021 9:00:00.000 AM	19.3662	19.3662		
6/1/2021 10:00:00.000 AM	19.5252	19.5252		
6/1/2021 11:00:00.000 AM	19.6348	19.6348		
6/1/2021 12:00:00.000 PM	19.9117	19.9117		
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6/1/2021 3:00:00.000 PM	20.1473	20.1473		
6/1/2021 4:00:00.000 PM	20.6697	20.6697		
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6/1/2021 6:00:00.000 PM	20.5494	20.5494		
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6/2/2021 8:00:00.000 AM	19.1907	19.1907		
6/2/2021 9:00:00.000 AM	20.219	20.2190		
6/2/2021 10:00:00.000 AM	20.9037	20.9037		
6/2/2021 11:00:00.000 AM	21.8093	21.8093		
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6/3/2021 2:00:00.000 PM	24.5375	24.5375		
6/3/2021 3:00:00.000 PM	24.5079	24.5079		
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6/4/2021 5:00:00.000 AM	17.0714	17.0714		
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6/7/2021 4:00:00.000 PM	37.6694	42.6694	5.00	
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6/7/2021 7:00:00.000 PM	38.9425	45.8825	5.00	1.94
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6/8/2021 2:00:00.000 PM	38.9581	43.9581	5.00	
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6/10/2021 12:00:00.000 AM	23.1466	23.1466		
6/10/2021 1:00:00.000 AM	20.3426	20.3426		
6/10/2021 2:00:00.000 AM	19.1017	19.1017		
6/10/2021 3:00:00.000 AM	18.4021	18.4021		
6/10/2021 4:00:00.000 AM	17.3754	17.3754		
6/10/2021 5:00:00.000 AM	18.3947	18.3947		
6/10/2021 6:00:00.000 AM	19.9751	19.9751		

6/10/2021 7:00:00.000 AM	21.9848	21.9848		
6/10/2021 8:00:00.000 AM	23.5042	23.5042		
6/10/2021 9:00:00.000 AM	24.0489	24.0489		
6/10/2021 10:00:00.000 AM	24.0382	24.0382		
6/10/2021 11:00:00.000 AM	23.9319	23.9319		
6/10/2021 12:00:00.000 PM	24.4007	24.4007		
6/10/2021 1:00:00.000 PM	24.7872	24.7872		
6/10/2021 2:00:00.000 PM	24.2607	24.2607		
6/10/2021 3:00:00.000 PM	24.6891	24.6891		
6/10/2021 4:00:00.000 PM	23.6707	23.6707		
6/10/2021 5:00:00.000 PM	23.6031	23.6031		
6/10/2021 6:00:00.000 PM	22.5682	22.5682		
6/10/2021 7:00:00.000 PM	20.8938	20.8938		
6/10/2021 8:00:00.000 PM	20.2932	20.2932		
6/10/2021 9:00:00.000 PM	19.6389	19.6389		
6/10/2021 10:00:00.000 PM	17.8401	17.8401		
6/10/2021 11:00:00.000 PM	16.1032	16.1032		
6/11/2021 12:00:00.000 AM	14.5516	14.5516		
6/11/2021 1:00:00.000 AM	13.3634	13.3634		
6/11/2021 2:00:00.000 AM	12.9424	12.9424		
6/11/2021 3:00:00.000 AM	12.8962	12.8962		
6/11/2021 4:00:00.000 AM	14.063	14.0630		
6/11/2021 5:00:00.000 AM	14.7568	14.7568		
6/11/2021 6:00:00.000 AM	16.7294	16.7294		
6/11/2021 7:00:00.000 AM	18.4548	18.4548		
6/11/2021 8:00:00.000 AM	19.3892	19.3892		
6/11/2021 9:00:00.000 AM	19.9092	19.9092		
6/11/2021 10:00:00.000 AM	20.3401	20.3401		
6/11/2021 11:00:00.000 AM	20.5535	20.5535		
6/11/2021 12:00:00.000 PM	20.4728	20.4728		
6/11/2021 1:00:00.000 PM	20.701	20.7010		
6/11/2021 2:00:00.000 PM	20.4275	20.4275		
6/11/2021 3:00:00.000 PM	20.3813	20.3813		
6/11/2021 4:00:00.000 PM	20.1836	20.1836		
6/11/2021 5:00:00.000 PM	20.4514	20.4514		
6/11/2021 6:00:00.000 PM	19.6331	19.6331		
6/11/2021 7:00:00.000 PM	18.2019	18.2019		
6/11/2021 8:00:00.000 PM	18.0428	18.0428		
6/11/2021 9:00:00.000 PM	17.8228	17.8228		
6/11/2021 10:00:00.000 PM	16.3009	16.3009		
6/11/2021 11:00:00.000 PM	15.1729	15.1729		
6/12/2021 12:00:00.000 AM	14.0226	14.0226		
6/12/2021 1:00:00.000 AM	13.2555	13.2555		
6/12/2021 2:00:00.000 AM	12.6713	12.6713		
6/12/2021 3:00:00.000 AM	12.7273	12.7273		
6/12/2021 4:00:00.000 AM	12.958	12.9580		
6/12/2021 5:00:00.000 AM	13.0198	13.0198		
6/12/2021 6:00:00.000 AM	13.9353	13.9353		
6/12/2021 7:00:00.000 AM	15.8848	15.8848		
6/12/2021 8:00:00.000 AM	16.9033	16.9033		
6/12/2021 9:00:00.000 AM	18.5199	18.5199		
6/12/2021 10:00:00.000 AM	18.7605	18.7605		
6/12/2021 11:00:00.000 AM	19.1355	19.1355		
6/12/2021 12:00:00.000 PM	19.175	19.1750		
6/12/2021 1:00:00.000 PM	18.6279	18.6279		
6/12/2021 2:00:00.000 PM	19.0143	19.0143		

6/12/2021 3:00:00.000 PM	18.9303	18.9303		
6/12/2021 4:00:00.000 PM	19.4016	19.4016		
6/12/2021 5:00:00.000 PM	19.8713	19.8713		
6/12/2021 6:00:00.000 PM	19.882	19.8820		
6/12/2021 7:00:00.000 PM	19.4173	19.4173		
6/12/2021 8:00:00.000 PM	18.7474	18.7474		
6/12/2021 9:00:00.000 PM	18.6205	18.6205		
6/12/2021 10:00:00.000 PM	17.5946	17.5946		
6/12/2021 11:00:00.000 PM	16.338	16.3380		
6/13/2021 12:00:00.000 AM	15.0551	15.0551		
6/13/2021 1:00:00.000 AM	13.9995	13.9995		
6/13/2021 2:00:00.000 AM	13.0239	13.0239		
6/13/2021 3:00:00.000 AM	12.6087	12.6087		
6/13/2021 4:00:00.000 AM	12.2642	12.2642		
6/13/2021 5:00:00.000 AM	11.7616	11.7616		
6/13/2021 6:00:00.000 AM	12.6301	12.6301		
6/13/2021 7:00:00.000 AM	13.899	13.8990		
6/13/2021 8:00:00.000 AM	15.6343	15.6343		
6/13/2021 9:00:00.000 AM	17.2732	17.2732		
6/13/2021 10:00:00.000 AM	18.5504	18.5504		
6/13/2021 11:00:00.000 AM	19.9784	19.9784		
6/13/2021 12:00:00.000 PM	21.0282	21.0282		
6/13/2021 1:00:00.000 PM	21.1864	21.1864		
6/13/2021 2:00:00.000 PM	21.703	21.7030		
6/13/2021 3:00:00.000 PM	22.719	22.7190		
6/13/2021 4:00:00.000 PM	23.7852	23.7852		
6/13/2021 5:00:00.000 PM	24.3991	24.3991		
6/13/2021 6:00:00.000 PM	25.1761	25.1761		
6/13/2021 7:00:00.000 PM	25.256	25.2560		
6/13/2021 8:00:00.000 PM	23.7036	23.7036		
6/13/2021 9:00:00.000 PM	22.7437	22.7437		
6/13/2021 10:00:00.000 PM	20.6401	20.6401		
6/13/2021 11:00:00.000 PM	18.1393	18.1393		
6/14/2021 12:00:00.000 AM	16.4509	16.4509		
6/14/2021 1:00:00.000 AM	14.3736	14.3736		
6/14/2021 2:00:00.000 AM	13.576	13.5760		
6/14/2021 3:00:00.000 AM	13.5051	13.5051		
6/14/2021 4:00:00.000 AM	14.5005	14.5005		
6/14/2021 5:00:00.000 AM	15.5239	15.5239		
6/14/2021 6:00:00.000 AM	17.8154	17.8154		
6/14/2021 7:00:00.000 AM	20.1745	20.1745		
6/14/2021 8:00:00.000 AM	21.483	21.4830		
6/14/2021 9:00:00.000 AM	21.7673	21.7673		
6/14/2021 10:00:00.000 AM	21.8711	21.8711		
6/14/2021 11:00:00.000 AM	22.1175	22.1175		
6/14/2021 12:00:00.000 PM	22.2592	22.2592		
6/14/2021 1:00:00.000 PM	22.2872	22.2872		
6/14/2021 2:00:00.000 PM	21.7895	21.7895		
6/14/2021 3:00:00.000 PM	21.7953	21.7953		
6/14/2021 4:00:00.000 PM	22.0326	22.0326		
6/14/2021 5:00:00.000 PM	22.6011	22.6011		
6/14/2021 6:00:00.000 PM	21.8184	21.8184		
6/14/2021 7:00:00.000 PM	20.8337	20.8337		
6/14/2021 8:00:00.000 PM	20.4481	20.4481		
6/14/2021 9:00:00.000 PM	19.7024	19.7024		
6/14/2021 10:00:00.000 PM	18.1187	18.1187		

6/14/2021 11:00:00.000 PM	16.31	16.3100		
6/15/2021 12:00:00.000 AM	14.9405	14.9405		
6/15/2021 1:00:00.000 AM	13.9971	13.9971		
6/15/2021 2:00:00.000 AM	13.609	13.6090		
6/15/2021 3:00:00.000 AM	13.7177	13.7177		
6/15/2021 4:00:00.000 AM	15.3154	15.3154		
6/15/2021 5:00:00.000 AM	16.1534	16.1534		
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6/15/2021 7:00:00.000 AM	19.6142	19.6142		
6/15/2021 8:00:00.000 AM	20.8419	20.8419		
6/15/2021 9:00:00.000 AM	21.8307	21.8307		
6/15/2021 10:00:00.000 AM	22.1611	22.1611		
6/15/2021 11:00:00.000 AM	22.8335	22.8335		
6/15/2021 12:00:00.000 PM	23.1219	23.1219		
6/15/2021 1:00:00.000 PM	23.4737	23.4737		
6/15/2021 2:00:00.000 PM	24.4271	24.4271		
6/15/2021 3:00:00.000 PM	25.8328	25.8328		
6/15/2021 4:00:00.000 PM	26.3388	26.3388		
6/15/2021 5:00:00.000 PM	27.1388	27.1388		
6/15/2021 6:00:00.000 PM	26.0281	26.0281		
6/15/2021 7:00:00.000 PM	23.5182	23.5182		
6/15/2021 8:00:00.000 PM	22.9464	22.9464		
6/15/2021 9:00:00.000 PM	21.9667	21.9667		
6/15/2021 10:00:00.000 PM	20.2355	20.2355		
6/15/2021 11:00:00.000 PM	17.766	17.7660		
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6/16/2021 1:00:00.000 AM	14.6579	14.6579		
6/16/2021 2:00:00.000 AM	14.0688	14.0688		
6/16/2021 3:00:00.000 AM	13.8323	13.8323		
6/16/2021 4:00:00.000 AM	15.2207	15.2207		
6/16/2021 5:00:00.000 AM	15.3179	15.3179		
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6/16/2021 7:00:00.000 AM	19.5705	19.5705		
6/16/2021 8:00:00.000 AM	20.2124	20.2124		
6/16/2021 9:00:00.000 AM	20.6944	20.6944		
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6/16/2021 11:00:00.000 AM	22.3086	22.3086		
6/16/2021 12:00:00.000 PM	21.9156	21.9156		
6/16/2021 1:00:00.000 PM	21.9189	21.9189		
6/16/2021 2:00:00.000 PM	23.0362	23.0362		
6/16/2021 3:00:00.000 PM	22.9967	22.9967		
6/16/2021 4:00:00.000 PM	23.3304	23.3304		
6/16/2021 5:00:00.000 PM	23.9681	23.9681		
6/16/2021 6:00:00.000 PM	22.7297	22.7297		
6/16/2021 7:00:00.000 PM	21.2721	21.2721		
6/16/2021 8:00:00.000 PM	20.8914	20.8914		
6/16/2021 9:00:00.000 PM	20.2684	20.2684		
6/16/2021 10:00:00.000 PM	18.1837	18.1837		
6/16/2021 11:00:00.000 PM	16.3059	16.3059		
6/17/2021 12:00:00.000 AM	14.8548	14.8548		
6/17/2021 1:00:00.000 AM	13.6189	13.6189		
6/17/2021 2:00:00.000 AM	12.9547	12.9547		
6/17/2021 3:00:00.000 AM	13.2209	13.2209		
6/17/2021 4:00:00.000 AM	14.0704	14.0704		
6/17/2021 5:00:00.000 AM	14.6867	14.6867		
6/17/2021 6:00:00.000 AM	16.5745	16.5745		

6/17/2021 7:00:00.000 AM	18.1755	18.1755		
6/17/2021 8:00:00.000 AM	19.7625	19.7625		
6/17/2021 9:00:00.000 AM	20.2907	20.2907		
6/17/2021 10:00:00.000 AM	20.6203	20.6203		
6/17/2021 11:00:00.000 AM	21.2992	21.2992		
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6/17/2021 7:00:00.000 PM	22.2715	22.2715		
6/17/2021 8:00:00.000 PM	21.5192	21.5192		
6/17/2021 9:00:00.000 PM	21.3899	21.3899		
6/17/2021 10:00:00.000 PM	19.2516	19.2516		
6/17/2021 11:00:00.000 PM	17.2963	17.2963		
6/18/2021 12:00:00.000 AM	15.3731	15.3731		
6/18/2021 1:00:00.000 AM	14.0103	14.0103		
6/18/2021 2:00:00.000 AM	13.2662	13.2662		
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6/18/2021 4:00:00.000 AM	14.4297	14.4297		
6/18/2021 5:00:00.000 AM	14.7502	14.7502		
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6/18/2021 7:00:00.000 AM	18.7177	18.7177		
6/18/2021 8:00:00.000 AM	20.3517	20.3517		
6/18/2021 9:00:00.000 AM	21.0133	21.0133		
6/18/2021 10:00:00.000 AM	22.2575	22.2575		
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6/18/2021 11:00:00.000 PM	19.6949	19.6949		
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6/19/2021 1:00:00.000 AM	16.5053	16.5053		
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6/19/2021 3:00:00.000 AM	15.2652	15.2652		
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6/19/2021 10:00:00.000 AM	23.0939	23.0939		
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6/19/2021 12:00:00.000 PM	27.0185	27.0185		
6/19/2021 1:00:00.000 PM	28.4267	28.4267		
6/19/2021 2:00:00.000 PM	29.7262	29.7262		

6/19/2021 3:00:00.000 PM	30.2469	30.2469		
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6/20/2021 3:00:00.000 AM	16.5959	16.5959		
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6/20/2021 5:00:00.000 AM	15.5816	15.5816		
6/20/2021 6:00:00.000 AM	15.8181	15.8181		
6/20/2021 7:00:00.000 AM	17.7849	17.7849		
6/20/2021 8:00:00.000 AM	20.5338	20.5338		
6/20/2021 9:00:00.000 AM	22.8426	22.8426		
6/20/2021 10:00:00.000 AM	24.4724	24.4724		
6/20/2021 11:00:00.000 AM	26.188	26.1880		
6/20/2021 12:00:00.000 PM	27.4478	27.4478		
6/20/2021 1:00:00.000 PM	28.3691	28.3691		
6/20/2021 2:00:00.000 PM	29.7888	29.7888		
6/20/2021 3:00:00.000 PM	30.4257	30.4257		
6/20/2021 4:00:00.000 PM	31.3206	31.3206		
6/20/2021 5:00:00.000 PM	31.1418	31.1418		
6/20/2021 6:00:00.000 PM	31.506	31.5060		
6/20/2021 7:00:00.000 PM	31.2687	31.2687		
6/20/2021 8:00:00.000 PM	30.3779	30.3779		
6/20/2021 9:00:00.000 PM	29.7393	29.7393		
6/20/2021 10:00:00.000 PM	27.578	27.5780		
6/20/2021 11:00:00.000 PM	24.5721	24.5721		
6/21/2021 12:00:00.000 AM	21.7912	21.7912		
6/21/2021 1:00:00.000 AM	19.7436	19.7436		
6/21/2021 2:00:00.000 AM	18.5933	18.5933		
6/21/2021 3:00:00.000 AM	18.2249	18.2249		
6/21/2021 4:00:00.000 AM	18.749	18.7490		
6/21/2021 5:00:00.000 AM	19.9133	19.9133		
6/21/2021 6:00:00.000 AM	23.3477	23.3477		
6/21/2021 7:00:00.000 AM	25.7529	25.7529		
6/21/2021 8:00:00.000 AM	29.2779	29.2779		
6/21/2021 9:00:00.000 AM	32.0992	32.0992		
6/21/2021 10:00:00.000 AM	34.3875	34.3875		
6/21/2021 11:00:00.000 AM	35.9184	35.9184		
6/21/2021 12:00:00.000 PM	37.704	37.7040		
6/21/2021 1:00:00.000 PM	38.5832	38.5832		
6/21/2021 2:00:00.000 PM	39.31	39.3100		
6/21/2021 3:00:00.000 PM	38.6326	43.6326	5.00	
6/21/2021 4:00:00.000 PM	34.8456	41.5456	5.00	1.70
6/21/2021 5:00:00.000 PM	38.2759	43.2759	5.00	
6/21/2021 6:00:00.000 PM	36.4482	36.4482		
6/21/2021 7:00:00.000 PM	34.6701	34.6701		
6/21/2021 8:00:00.000 PM	33.4176	33.4176		
6/21/2021 9:00:00.000 PM	31.8932	31.8932		
6/21/2021 10:00:00.000 PM	29.5218	29.5218		

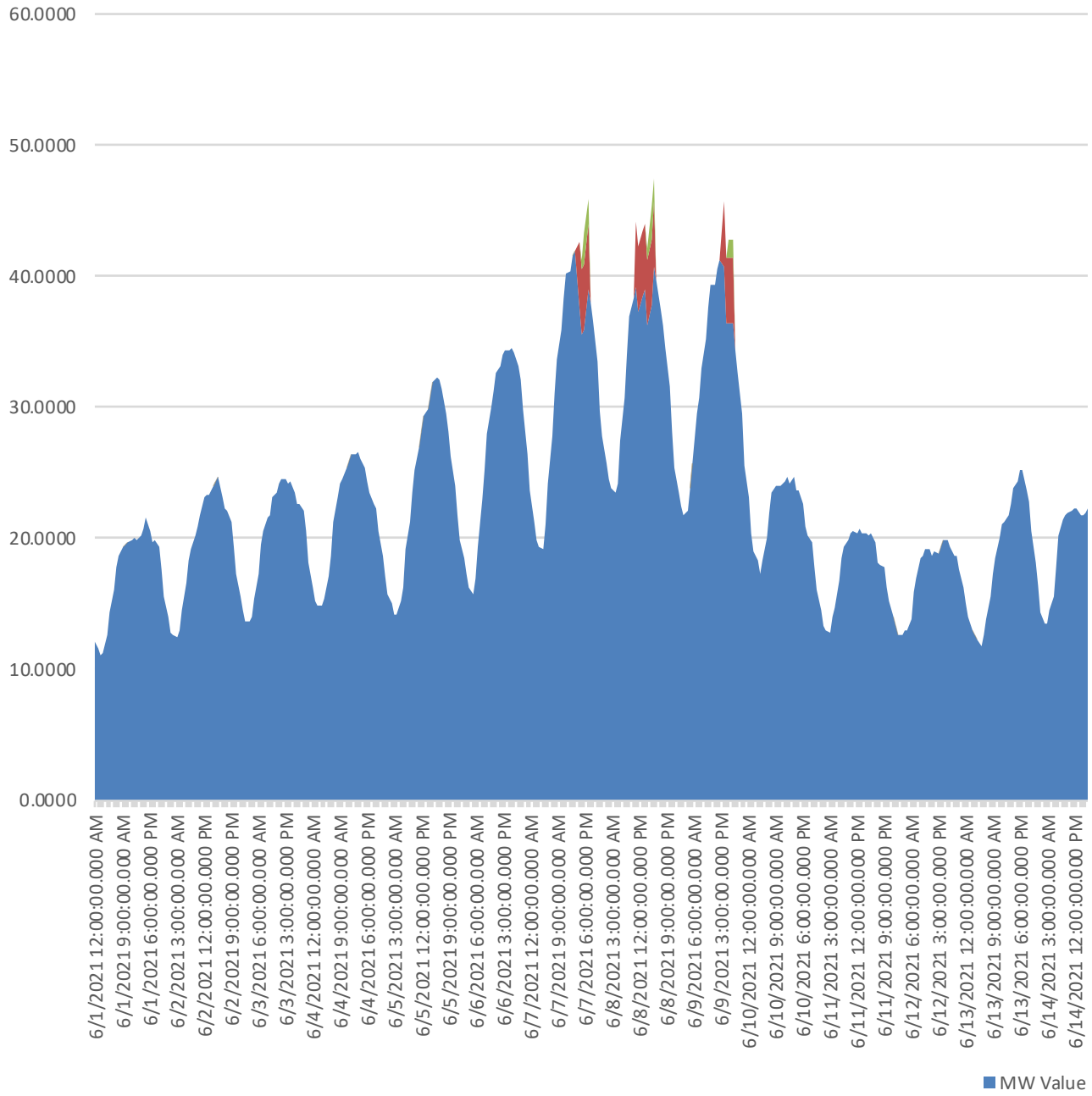
6/21/2021 11:00:00.000 PM	26.3981	26.3981		
6/22/2021 12:00:00.000 AM	23.9039	23.9039		
6/22/2021 1:00:00.000 AM	21.7722	21.7722		
6/22/2021 2:00:00.000 AM	20.8461	20.8461		
6/22/2021 3:00:00.000 AM	20.4802	20.4802		
6/22/2021 4:00:00.000 AM	21.2885	21.2885		
6/22/2021 5:00:00.000 AM	21.5835	21.5835		
6/22/2021 6:00:00.000 AM	23.6822	23.6822		
6/22/2021 7:00:00.000 AM	25.8279	25.8279		
6/22/2021 8:00:00.000 AM	28.7522	28.7522		
6/22/2021 9:00:00.000 AM	31.1731	31.1731		
6/22/2021 10:00:00.000 AM	32.9414	32.9414		
6/22/2021 11:00:00.000 AM	34.3982	34.3982		
6/22/2021 12:00:00.000 PM	35.9217	35.9217		
6/22/2021 1:00:00.000 PM	34.4081	34.4081		
6/22/2021 2:00:00.000 PM	32.3036	32.3036		
6/22/2021 3:00:00.000 PM	30.3186	30.3186		
6/22/2021 4:00:00.000 PM	27.0828	27.0828		
6/22/2021 5:00:00.000 PM	26.5761	26.5761		
6/22/2021 6:00:00.000 PM	25.5312	25.5312		
6/22/2021 7:00:00.000 PM	23.4284	23.4284		
6/22/2021 8:00:00.000 PM	22.8475	22.8475		
6/22/2021 9:00:00.000 PM	21.8925	21.8925		
6/22/2021 10:00:00.000 PM	20.0138	20.0138		
6/22/2021 11:00:00.000 PM	17.8533	17.8533		
6/23/2021 12:00:00.000 AM	16.1526	16.1526		
6/23/2021 1:00:00.000 AM	14.6225	14.6225		
6/23/2021 2:00:00.000 AM	13.9567	13.9567		
6/23/2021 3:00:00.000 AM	14.1165	14.1165		
6/23/2021 4:00:00.000 AM	14.8969	14.8969		
6/23/2021 5:00:00.000 AM	15.2438	15.2438		
6/23/2021 6:00:00.000 AM	16.5679	16.5679		
6/23/2021 7:00:00.000 AM	18.2447	18.2447		
6/23/2021 8:00:00.000 AM	19.517	19.5170		
6/23/2021 9:00:00.000 AM	20.3698	20.3698		
6/23/2021 10:00:00.000 AM	20.5725	20.5725		
6/23/2021 11:00:00.000 AM	20.898	20.8980		
6/23/2021 12:00:00.000 PM	21.6264	21.6264		
6/23/2021 1:00:00.000 PM	22.4874	22.4874		
6/23/2021 2:00:00.000 PM	22.6374	22.6374		
6/23/2021 3:00:00.000 PM	22.4932	22.4932		
6/23/2021 4:00:00.000 PM	22.9365	22.9365		
6/23/2021 5:00:00.000 PM	22.8302	22.8302		
6/23/2021 6:00:00.000 PM	21.7837	21.7837		
6/23/2021 7:00:00.000 PM	20.7678	20.7678		
6/23/2021 8:00:00.000 PM	19.8251	19.8251		
6/23/2021 9:00:00.000 PM	19.5409	19.5409		
6/23/2021 10:00:00.000 PM	17.5427	17.5427		
6/23/2021 11:00:00.000 PM	16.16	16.1600		
6/24/2021 12:00:00.000 AM	14.5508	14.5508		
6/24/2021 1:00:00.000 AM	13.5373	13.5373		
6/24/2021 2:00:00.000 AM	12.8006	12.8006		
6/24/2021 3:00:00.000 AM	12.8097	12.8097		
6/24/2021 4:00:00.000 AM	13.7433	13.7433		
6/24/2021 5:00:00.000 AM	14.4305	14.4305		
6/24/2021 6:00:00.000 AM	16.1221	16.1221		

6/24/2021 7:00:00.000 AM	18.117	18.1170		
6/24/2021 8:00:00.000 AM	19.7172	19.7172		
6/24/2021 9:00:00.000 AM	20.8329	20.8329		
6/24/2021 10:00:00.000 AM	21.3404	21.3404		
6/24/2021 11:00:00.000 AM	21.5547	21.5547		
6/24/2021 12:00:00.000 PM	22.0087	22.0087		
6/24/2021 1:00:00.000 PM	22.1257	22.1257		
6/24/2021 2:00:00.000 PM	21.9947	21.9947		
6/24/2021 3:00:00.000 PM	22.4726	22.4726		
6/24/2021 4:00:00.000 PM	22.9176	22.9176		
6/24/2021 5:00:00.000 PM	22.9909	22.9909		
6/24/2021 6:00:00.000 PM	21.736	21.7360		
6/24/2021 7:00:00.000 PM	20.2808	20.2808		
6/24/2021 8:00:00.000 PM	19.5854	19.5854		
6/24/2021 9:00:00.000 PM	19.2566	19.2566		
6/24/2021 10:00:00.000 PM	18.0634	18.0634		
6/24/2021 11:00:00.000 PM	15.9961	15.9961		
6/25/2021 12:00:00.000 AM	14.7139	14.7139		
6/25/2021 1:00:00.000 AM	13.6905	13.6905		
6/25/2021 2:00:00.000 AM	13.2835	13.2835		
6/25/2021 3:00:00.000 AM	13.309	13.3090		
6/25/2021 4:00:00.000 AM	14.8573	14.8573		
6/25/2021 5:00:00.000 AM	15.3896	15.3896		
6/25/2021 6:00:00.000 AM	16.4674	16.4674		
6/25/2021 7:00:00.000 AM	18.4672	18.4672		
6/25/2021 8:00:00.000 AM	19.9561	19.9561		
6/25/2021 9:00:00.000 AM	20.7826	20.7826		
6/25/2021 10:00:00.000 AM	21.1699	21.1699		
6/25/2021 11:00:00.000 AM	21.6107	21.6107		
6/25/2021 12:00:00.000 PM	21.8175	21.8175		
6/25/2021 1:00:00.000 PM	21.1962	21.1962		
6/25/2021 2:00:00.000 PM	21.4978	21.4978		
6/25/2021 3:00:00.000 PM	21.9049	21.9049		
6/25/2021 4:00:00.000 PM	21.9279	21.9279		
6/25/2021 5:00:00.000 PM	21.8431	21.8431		
6/25/2021 6:00:00.000 PM	21.155	21.1550		
6/25/2021 7:00:00.000 PM	20.13	20.1300		
6/25/2021 8:00:00.000 PM	19.7798	19.7798		
6/25/2021 9:00:00.000 PM	19.2698	19.2698		
6/25/2021 10:00:00.000 PM	17.9596	17.9596		
6/25/2021 11:00:00.000 PM	16.6347	16.6347		
6/26/2021 12:00:00.000 AM	15.5832	15.5832		
6/26/2021 1:00:00.000 AM	14.8491	14.8491		
6/26/2021 2:00:00.000 AM	14.2344	14.2344		
6/26/2021 3:00:00.000 AM	13.9138	13.9138		
6/26/2021 4:00:00.000 AM	14.4132	14.4132		
6/26/2021 5:00:00.000 AM	14.4255	14.4255		
6/26/2021 6:00:00.000 AM	16.1122	16.1122		
6/26/2021 7:00:00.000 AM	17.8665	17.8665		
6/26/2021 8:00:00.000 AM	19.4683	19.4683		
6/26/2021 9:00:00.000 AM	22.0136	22.0136		
6/26/2021 10:00:00.000 AM	24.3035	24.3035		
6/26/2021 11:00:00.000 AM	26.5983	26.5983		
6/26/2021 12:00:00.000 PM	27.6209	27.6209		
6/26/2021 1:00:00.000 PM	27.6744	27.6744		
6/26/2021 2:00:00.000 PM	27.9529	27.9529		

6/26/2021 3:00:00.000 PM	28.2455	28.2455		
6/26/2021 4:00:00.000 PM	28.1944	28.1944		
6/26/2021 5:00:00.000 PM	27.9719	27.9719		
6/26/2021 6:00:00.000 PM	27.555	27.5550		
6/26/2021 7:00:00.000 PM	27.1932	27.1932		
6/26/2021 8:00:00.000 PM	26.4623	26.4623		
6/26/2021 9:00:00.000 PM	26.3536	26.3536		
6/26/2021 10:00:00.000 PM	24.802	24.8020		
6/26/2021 11:00:00.000 PM	22.9357	22.9357		
6/27/2021 12:00:00.000 AM	20.7027	20.7027		
6/27/2021 1:00:00.000 AM	19.6134	19.6134		
6/27/2021 2:00:00.000 AM	18.6921	18.6921		
6/27/2021 3:00:00.000 AM	17.7025	17.7025		
6/27/2021 4:00:00.000 AM	17.3301	17.3301		
6/27/2021 5:00:00.000 AM	17.2502	17.2502		
6/27/2021 6:00:00.000 AM	18.0865	18.0865		
6/27/2021 7:00:00.000 AM	19.6546	19.6546		
6/27/2021 8:00:00.000 AM	22.6572	22.6572		
6/27/2021 9:00:00.000 AM	25.4587	25.4587		
6/27/2021 10:00:00.000 AM	27.335	27.3350		
6/27/2021 11:00:00.000 AM	29.9849	29.9849		
6/27/2021 12:00:00.000 PM	31.211	31.2110		
6/27/2021 1:00:00.000 PM	32.0894	32.0894		
6/27/2021 2:00:00.000 PM	32.5533	32.5533		
6/27/2021 3:00:00.000 PM	33.6871	33.6871		
6/27/2021 4:00:00.000 PM	34.6478	34.6478		
6/27/2021 5:00:00.000 PM	34.5358	34.5358		
6/27/2021 6:00:00.000 PM	34.4649	34.4649		
6/27/2021 7:00:00.000 PM	34.5448	34.5448		
6/27/2021 8:00:00.000 PM	33.3772	33.3772		
6/27/2021 9:00:00.000 PM	32.4082	32.4082		
6/27/2021 10:00:00.000 PM	30.1967	30.1967		
6/27/2021 11:00:00.000 PM	27.1454	27.1454		
6/28/2021 12:00:00.000 AM	24.4263	24.4263		
6/28/2021 1:00:00.000 AM	22.199	22.1990		
6/28/2021 2:00:00.000 AM	20.4464	20.4464		
6/28/2021 3:00:00.000 AM	20.1209	20.1209		
6/28/2021 4:00:00.000 AM	20.8864	20.8864		
6/28/2021 5:00:00.000 AM	22.4759	22.4759		
6/28/2021 6:00:00.000 AM	24.7122	24.7122		
6/28/2021 7:00:00.000 AM	28.6467	28.6467		
6/28/2021 8:00:00.000 AM	32.2212	32.2212		
6/28/2021 9:00:00.000 AM	35.7899	35.7899		
6/28/2021 10:00:00.000 AM	37.7567	37.7567		
6/28/2021 11:00:00.000 AM	40.2724	40.2724		
6/28/2021 12:00:00.000 PM	42.231	42.2310		
6/28/2021 1:00:00.000 PM	43.7809	43.7809		
6/28/2021 2:00:00.000 PM	44.2028	44.2028		
6/28/2021 3:00:00.000 PM	41.1623	41.1623		
6/28/2021 4:00:00.000 PM	40.1224	45.1224	5.00	
6/28/2021 5:00:00.000 PM	39.5291	47.0791	5.00	2.55
6/28/2021 6:00:00.000 PM	37.5384	45.0884	5.00	2.55
6/28/2021 7:00:00.000 PM	40.9695	40.9695		
6/28/2021 8:00:00.000 PM	40.5377	40.5377		
6/28/2021 9:00:00.000 PM	38.9878	38.9878		
6/28/2021 10:00:00.000 PM	36.3766	36.3766		

6/28/2021 11:00:00.000 PM	33.1778	33.1778		
6/29/2021 12:00:00.000 AM	30.7825	30.7825		
6/29/2021 1:00:00.000 AM	28.332	28.3320		
6/29/2021 2:00:00.000 AM	27.1677	27.1677		
6/29/2021 3:00:00.000 AM	26.3956	26.3956		
6/29/2021 4:00:00.000 AM	26.3865	26.3865		
6/29/2021 5:00:00.000 AM	26.7326	26.7326		
6/29/2021 6:00:00.000 AM	29.0892	29.0892		
6/29/2021 7:00:00.000 AM	33.205	33.2050		
6/29/2021 8:00:00.000 AM	36.4136	36.4136		
6/29/2021 9:00:00.000 AM	38.6343	38.6343		
6/29/2021 10:00:00.000 AM	40.4718	40.4718		
6/29/2021 11:00:00.000 AM	42.5919	42.5919		
6/29/2021 12:00:00.000 PM	44.2259	44.2259		
6/29/2021 1:00:00.000 PM	42.011	47.0110	5.00	
6/29/2021 2:00:00.000 PM	41.1837	46.1837	5.00	
6/29/2021 3:00:00.000 PM	41.5767	46.5767	5.00	
6/29/2021 4:00:00.000 PM	41.3642	46.3642	5.00	
6/29/2021 5:00:00.000 PM	37.498	44.1980	5.00	1.70
6/29/2021 6:00:00.000 PM	37.011	43.7110	5.00	1.70
6/29/2021 7:00:00.000 PM	41.0148	47.7148	5.00	1.70
6/29/2021 8:00:00.000 PM	40.1257	40.1257		
6/29/2021 9:00:00.000 PM	39.2028	39.2028		
6/29/2021 10:00:00.000 PM	36.4548	36.4548		
6/29/2021 11:00:00.000 PM	33.1993	33.1993		
6/30/2021 12:00:00.000 AM	29.7946	29.7946		
6/30/2021 1:00:00.000 AM	27.812	27.8120		
6/30/2021 2:00:00.000 AM	26.5513	26.5513		
6/30/2021 3:00:00.000 AM	25.2857	25.2857		
6/30/2021 4:00:00.000 AM	25.5411	25.5411		
6/30/2021 5:00:00.000 AM	26.2399	26.2399		
6/30/2021 6:00:00.000 AM	29.1082	29.1082		
6/30/2021 7:00:00.000 AM	32.0844	32.0844		
6/30/2021 8:00:00.000 AM	35.5542	35.5542		
6/30/2021 9:00:00.000 AM	37.9339	37.9339		
6/30/2021 10:00:00.000 AM	40.0029	40.0029		
6/30/2021 11:00:00.000 AM	41.6633	41.6633		
6/30/2021 12:00:00.000 PM	43.4184	43.4184		
6/30/2021 1:00:00.000 PM	44.3503	44.3503		
6/30/2021 2:00:00.000 PM	45.0119	45.0119		
6/30/2021 3:00:00.000 PM	41.3081	41.3081		
6/30/2021 4:00:00.000 PM	42.123	47.1230	5.00	
6/30/2021 5:00:00.000 PM	39.2737	46.7737	5.00	2.50
6/30/2021 6:00:00.000 PM	37.774	45.2740	5.00	2.50
6/30/2021 7:00:00.000 PM	36.1796	36.1796		
6/30/2021 8:00:00.000 PM	34.6643	34.6643		
6/30/2021 9:00:00.000 PM	32.2212	32.2212		
6/30/2021 10:00:00.000 PM	30.2288	30.2288		
6/30/2021 11:00:00.000 PM	27.1446	27.1446		

WMGLD System Load 6/1/21 to 6/30/21 (w



with Generators and Battery)

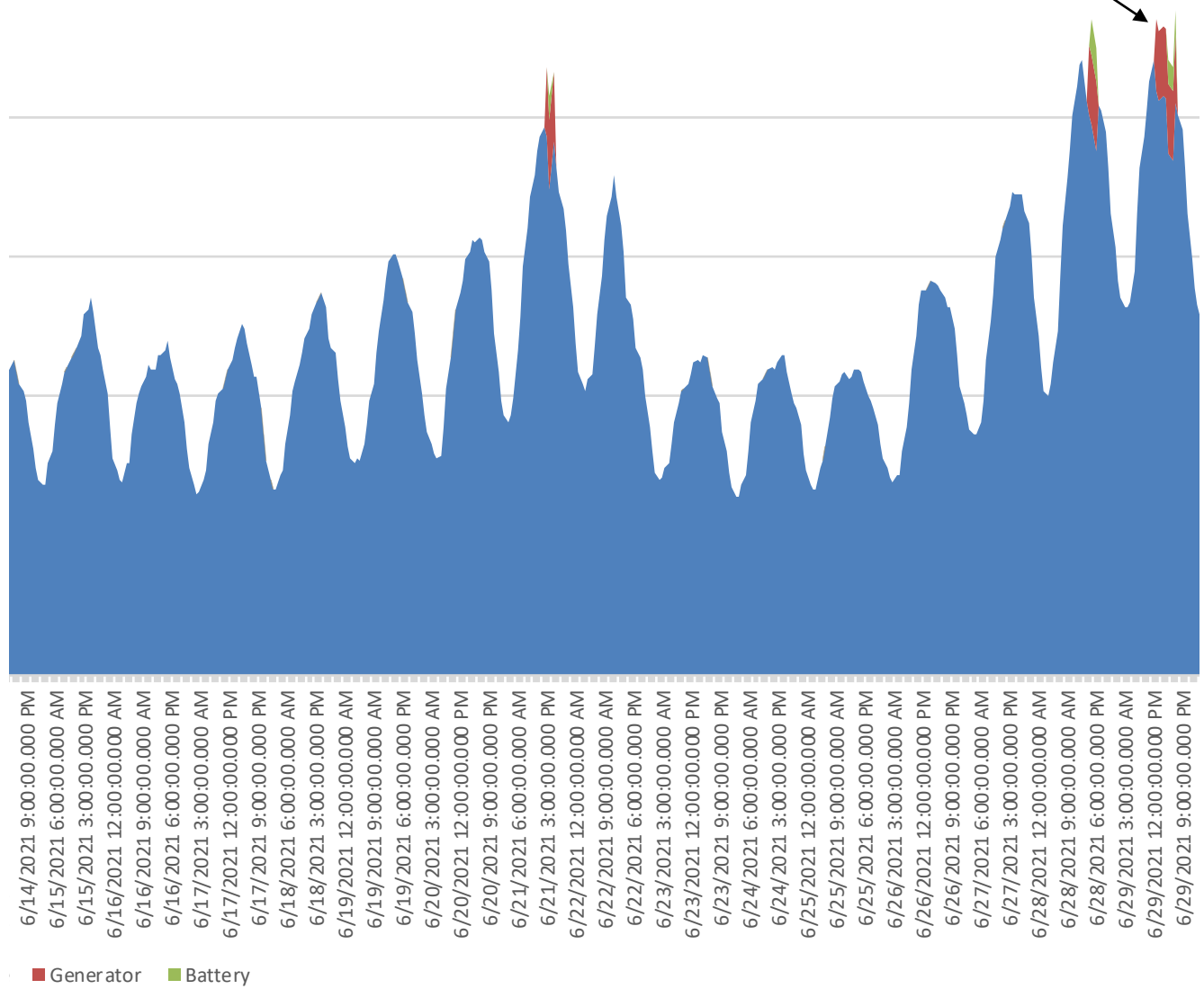
June 29, 2021

WMGLD System Peak: 44.2MW at 12pm

ISO Capacity Peak + Monthly Peak:

25,159MW at 6pm (HE18)

WMGLD coincident peak at 6pm: 37.8MW





Section A: Employee Information		
Peter Dion	General Manager	Performance Period: 2021

General Manager Signature: _____

Board Signature: _____

Date: _____

Section B.1: Performance Goals – Safety (16.67%)			
Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Reduce Lost Time Accidents	Upper Limit 3 max - YE		
2. Reduce Responsible Motor Vehicle Accidents	a. Major: Upper Limit (# or \$) max - YE		
	b. Minor: Upper Limit (# or \$) max - YE		
3. Reduce Personal Injuries	Upper Limit 5 max – YE		
4. Train Employees	Identify and conduct another all employee-based class focused on incidence-based experience - YE		
5. Continue to operate in the department COVID-19 control plan	Limit exposures and virus spread		

Section B.2: Performance Goals – Operational (16.67%)

Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Minimize Electric System Average Interruption Frequency (SAIFI)	Exceed Wakefield Average SAIFI < 0.8 - YE		
2. Minimize Electric Customer Average Interruption Duration (CAIDI)	Exceed Industry Average CAIDI < 60 minutes - YE		
3. Deliver Capital Projects On Time and On Budget	a. Electric: Complete Capital Plan– YE		
	b. Gas: Complete Capital Plan– YE		
4. Deliver Operation and Maintenance Services On Time and On Budget	a. Electric: Complete O&M (Distribution and Substation) Inspection Program and Address Items –YE		
	b. Electric: Complete Vegetation Management Plan – Q2		
	c. Gas: Move 100 inside services outside - YE		
	d. Gas: Complete Class 2 leak repairs per required targets – YE		
	e. Gas: Reduce Class 3 leaks by 15% from starting point of 73 leaks - YE		

Section B.3: Performance Goals – Customer Service (16.67%)

Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Update, Add to, and Organize Website Content	a. Update: <ul style="list-style-type: none"> • About Us section • Solar program 		
	b. Add: <ul style="list-style-type: none"> • Heat pump information materials • Non-emitting resource goals and progress • Rate sheets • Commercial EE program 		
	c. Organize: <ul style="list-style-type: none"> • Non-emitting resources • Heating system electrification • Vehicle electrification 		
2. Provide Customer Service, Education, and Outreach	a. Hold two topic-specific forums annually to educate and collect feedback from customers on new technologies, solutions and program offerings		
	b. Educate customers on heating and transportation electrification options and costs		
	c. Roll out commercial energy efficiency program		

Section B.4: Performance Goals – Financial (16.67%)

Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Prudent O&M Spending	a. Budget to actual – YE		
	b. Overtime (excluding Mutual Aid) < 19% of payroll - YE		
2. Prudent Capital Spending	Budget to actual – YE		
3. Annual Audit Performance	a. Positive position – No deficiencies		
	b. Work towards 3 months of cash on hand		
4. Long-Term Capital Planning	Maintain a three-year capital investment plan		
5. Manage account receivable growth due to COVID-19	Review detailed data with the Board and develop a plan to address any issues		

Section B.5: Performance Goals – Leadership (16.67%)

Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Communicate with and Represent the Board	a. Provide regular updates to the Board on discussions with partners (e.g., customers, town, vendors, contractors, municipal utility associations, energy industry organizations, other communities, states, and nationally)		
	b. Solicit and provide Board feedback to partners (e.g., see list above)		
2. Data Development	Develop performance dashboards to establish metrics, enable comparisons of metrics for various initiatives, and inform decision-making		
3. Strategic Planning	Conduct the next phase of strategic planning		
4. Improve communication with Town Departments, Committees and Boards	a. Notify Board Chair of requests pertaining to Town Committees or Boards and coordinate a plan of action with the Board		
	b. Coordinate effectively with DPW per Memorandum of Understanding		
	c. Inform relevant Boards about energy sector initiatives and policies in other communities and the state, such as gas moratoriums, solar ready roofs, EV ready buildings, and net zero energy buildings		
5. Staff Development	a. Develop staff capabilities through Board presentations on projects or efforts		
	b. Develop marketing plans for recently launched programs		

Section B.6: Performance Goals – Environmental (16.67%)			
Goals & Objectives (What)	Measures (How/When/Metric)	Evaluation	Rating (1 to 5)
1. Comply with Environmental Legislation	a. Address compliance steps with respect to final passage of the Senate and House 2050 Roadmap Bills		
2. Support installation of non-carbon emitting generation resources	a. Conduct a preliminary feasibility and alternative study to determine what would be involved in initiating a community shared solar program		
	b. Develop a proposal for the board on how to update and expand Residential and Small Commercial battery incentives		
3. Support decarbonization of the heating and transportation sectors	a. Investigate community support options for heating system electrification including contractor education and coaches		
	b. Support electric vehicle adoption through incentives for at home chargers, public chargers, dealer rebates on vehicles, and test drive events.		
Major Items Not Covered			

Rating Summary:

- B.1 – Safety (1 to 4): _____ * 4.167 = __%
- B.2 – Operational (1 to 4): _____ * 4.167 = __%
- B.3 – Customer Service (1 to 4): _____ * 4.167 = __%
- B.4 – Financial (1 to 4): _____ * 4.167 = __%
- B.5 – Leadership (1 to 4): _____ * 4.167 = __%
- B.6 – Environmental (1 to 4): _____ * 4.167 = __%

Total Rating (out of 100%): _____%

Total Incentive (out of 6%): _____%

Peak load power plant sparks controversy

By MARK SARDELLA

PEABODY — A four and a half hour community meeting Tuesday night to share information and solicit feedback on Project 2015A, Massachusetts Wholesale Electric Company's (MMWEC) proposed 55 megawatt reliability resource to be sited in Pea-

body, turned into a forum for environmental activists who object to any plan that involves burning fossil fuels to generate any amount of electricity. Speakers also claimed that MMWEC has not been "transparent" in releasing details of the planned project.

MMWEC is the state's not-for-profit

agency for municipal light plants in Massachusetts. The Wakefield Municipal Light Department is one of 14 departments in MMWEC communities that has invested in the proposed Peabody "peaker" plant. The gas-fired plant would generate electricity only during periods of peak electricity us-

age — estimated to be about 239 hours per year — and enable the participating municipal light departments to meet capacity requirements in the New England market.

"Capacity" is defined as the ability to supply electricity at all times, including during

POWER Page 6

Power consortium to hold meeting on Peabody project

PEABODY — Massachusetts' Peter The Peter A. Toriglian Senior Municipal Wholesale Electric Center, 75R Central St., Peabody. The proposed Project 2015A is a 55 megawatt capacity reliability resource to be constructed in Peabody on a site shared with the Peabody Municipal Light Plant. The meeting will be held on Tuesday, June 22, beginning at 6:30 p.m. in the

Area environmentalists object to the plan. The meeting format will include a presentation by MMWEC — as well as municipal light plant officials and subject matter experts — on its investigation into alternative sources, followed by a Q&A. Masks are

mandatory and will be provided.

As the state's not-for-profit agency for municipal light plants in Massachusetts, MMWEC assists the Massachusetts municipal light departments in developing a diverse resource mix while they serve their

periods of peak demand.

Tuesday's meeting in Peabody featured a variety of speakers from MMWEC and member municipal light commissions, who argued for why the plant is needed. Wakefield Municipal Light Department General Manager Peter Dion spoke in favor of the plant as did Wakefield Light Commissioner Phil Courcy. Wakefield Town Council Chair Julie Smith-Galvin spoke in opposition to the plant.

All municipal light departments, as load-serving entities, are re-

quired to provide capacity to ISO New England, an independent nonprofit organization that oversees the operation of New England's bulk electric power system. Capacity must be available to cover the light department's peak load, plus a reserve margin. Prices in the ISO New England capacity market are volatile, according to MMWEC, and Project 2015A locks in a price, protecting participating municipal light plants and their rate-payers against this price volatility.

load and meet capacity requirements in the New England market. The Wakefield Municipal Gas and Light Department is an MMWEC member. As a capacity resource, Project 2015A — MMWEC's proposed plant in Peabody — is expected to run just 239 hours per year, producing fewer emissions than 94 percent of similar resources in the region, and will help its participating municipal light plants maintain stable rates for their customers.

According to MMWEC, as a capacity resource that is only used when needed to meet peak energy usage, Project 2015A will account for only 0.535% of project participant total energy needs. Energy is the amount of electricity used by the customers of an Municipal Light Department. Measured in kilowatt hours, energy usage varies through the year and the day.

Approximately 30 percent of MMWEC member capacity requirements are covered by entitlements from fossil resources and these capacity resources contribute less than 1.8% of total energy consumption for its members, MMWEC maintains.

MMWEC officials say that having the required capacity through Project 2015A frees municipal power companies to purchase or own more renewable energy, such as MMWEC solar Project 2020A, Berkshire Wind Phase I and Berkshire Wind Phase II.

The intermittent nature of renewable energy sources means they can provide very little capacity, according to MMWEC.

As a capacity and fast-start reserve resource, Project 2015A is estimated to run an average of only 2.72% of the time, equivalent to approximately 239 hours per year, during times of system stress or high energy usage.

MMWEC officials say that Project 2015A is expected to produce approximately 7,085 tons of carbon emissions per year. They maintain that Project 2015A will displace existing older, dirtier, fast-start plants when it is called

upon to run, producing fewer emissions.

MMWEC contends that Project 2015A aligns with the Massachusetts Decarbonization Roadmap and that MMWEC members have been incorporating carbon-free power into their portfolios for decades, dating back to the 1980s. Having this capacity reliability resource helps participating municipal power companies stabilize rates and plan for the future, MMWEC maintains.

Wakefield MGLD General Manager Peter Dion stresses that as more renewables are layered into the energy system, the more critical it is to have a reliability resource like the proposed Peabody plant, to back up those resources.

"We just want to make sure the lights don't go out," he said. "We can't be like Texas and California and shun the things we need." Those states have faced severe power outages when demand for electricity outstripped the capacity to supply it.

"Breathe Clean North Shore" is a group that was formed to oppose the Project 2015A. The group has called upon MMWEC to "withdraw the proposal to move forward with this project and, instead, replace it with a project that will reduce the burden on the communities of Peabody and Danvers, and support participating Municipal Light Plants in becoming leaders of the Commonwealth's transition to a clean, renewable future."

Wakefield Town Council Chair Julie Smith-Galvin has been in the forefront of opposition to the Project 2015A plant. In a letter to the WMGLD commissioners, she applauds the advances WMGLD has made to adopt new and cleaner technologies. She insists, however, that, "This progress will be significantly diminished by investing in a dirty power plant that our children and grandchildren will have to pay for financially and environmentally. With the climate crisis nearing a point of no return, I implore the Commissioners of WMGLD to reevaluate this decision in light of the extraordinary climate, technology, legislative and regulatory changes that have occurred since this project first

came before your Board."

At Tuesday's meeting in Peabody, she lamented the "lack of public input and transparency" around the project. She called the project "a setback for the climate and community trust." She maintained that there are many more options available today than there were in 2015 when the project was first proposed. She also noted that the proposed plant would be located "within half a mile of at least two environmental justice populations."

One of the alternatives floated by opponents involves solar power combined with battery storage.

But WMGLD General Manager Pete Dion pointed out that batteries require a much larger land area than is available at the proposed site. Batteries also have a fixed useful life. "Batteries are not a replacement for a resource such as this," he said.

Wakefield Light Commissioner Phil Courcy spoke in favor of Project 2015A at Tuesday's meeting in Peabody. He noted that while some light commissioners are "climate activists," the majority of the Wakefield commissioners are in favor of the project for its ability to stabilize rates for WMGLD customers. The Light Commissioner's priorities are "safe, reliable, affordable, clean power," he said.

Dion addressed the "transparency" issue on the local level. He said that Project 2015A was discussed at public meetings of the WMGLD board in 2015, in 2017 and over a dozen times since. He said that the WMGLD and the Light Commission have done the same due diligence for this project as they have for all of the renewable projects that it has invested in. He noted that every project in recent years had been a green project, except Project 2015A, which is only a backup for those renewable energy sources.

The video of Tuesday's meeting on Project 2015A is available on the Peabody Municipal Light Plant's Facebook page at [facebook.com/PeabodyLight/](https://www.facebook.com/PeabodyLight/).

Town's EV chargers see minimal use in first year

WAKEFIELD — After one year of a pilot program under which the Wakefield Municipal Gas & Light Department donated three electric vehicle chargers to the town, Council last week. In November of 2019, the Town Council accepted the WMGLD's Manager Pete Dion told the Town

offer to donate charging infrastructure, hardware and installation for two Level 2 chargers and one Level 3 (fast) charger.

In early 2020, the three electric vehicle (EV) chargers were installed. One Level 2 charger was placed on the Armory Street side of the Americal Civic Center. The other Level 2 charger is located in the parking lot near Veterans Field. The Level 3 charger was installed in the Lincoln Street municipal parking lot.

As far as Wakefield falling into the "light" usage category, Dion told the Town Council that this is "very typical, especially in this area."

As a comparison, he pointed to similar communities like Beverly, Salem, Revere, Danvers and Swampscott that also fall into the "Light" usage category. Some towns are seeing slightly higher utilization, Dion said, but those towns don't charge any fees on their Level 2 stations. He attributed the higher utilization to "folks abusing the free amenity."

The other exceptions are local cities and towns that have fleet

EVs, Dion said. They see higher use day-to-day because those vehicles get driven (and charged) a lot.

Particularly in terms of Level 3 "fast charger" usage, Dion said that COVID has definitely had an impact, especially with chargers (like Wakefield's) that are in more suburban locations and not immediately off of major travel routes like 95, 495, etc. Still, Dion insisted, demand is starting to come back up as the world slowly returns to "normal."

Voltrek, the MGLD's EV charger consultant, encourages all of their clients, especially cities and towns, to charge something to use the stations, Dion said, even if it's just to break even. Municipalities are encouraged to evaluate their per kwh cost for the electricity and what the operating costs are for the charging stations (annual networking fees, etc), and set rates based on that.

"If the town really wants to help drive EV adoption and offer free charging to encourage that behavior, that is fine too," Dion said. "But drivers are used to paying for

charging nowadays, and we think it's a good thing."

Currently, the actual EV charging costs are partially subsidized by the electric utility rate payer, Dion acknowledged. Current rates were set to cover the cost of the electricity. Network costs are paid by the Town. Operation and maintenance costs for the chargers have been paid by the WMGLD during the pilot program.

Wakefield's chargers are on ChargePoint, the world's largest EV charging network, which handles billing. A big advantage, Dion said, of being on ChargePoint's platform is that Wakefield can

watch how things go and make adjustments to pricing (and anything else) when necessary.

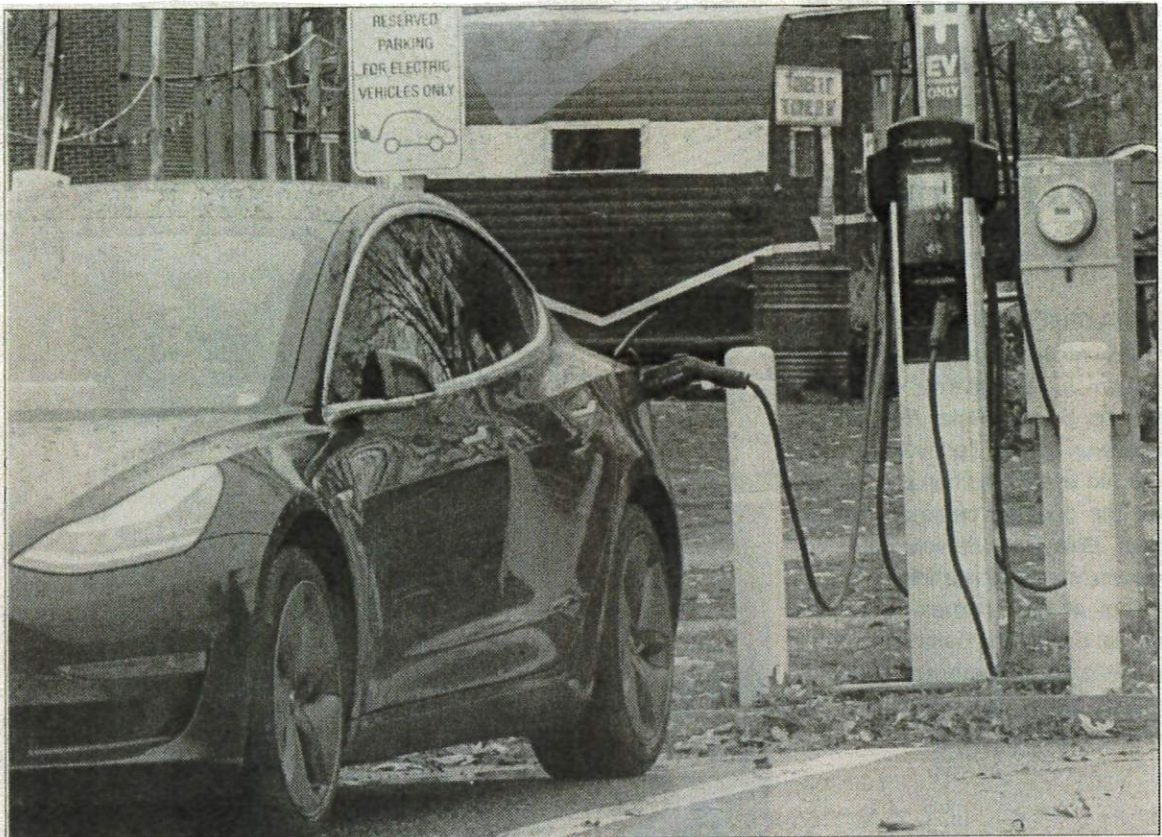
"It's very flexible," he said.

Dion reviewed the cost and revenue figures for the first year. He noted that the WMGLD paid out \$75,000 for installation of the three EV chargers, plus another \$9,763 in operation and maintenance costs. In response to a question from Town Councilor Edward Dombroski, Dion acknowledged that the source of those funds was Wakefield's utility ratepayers.

In terms of revenue, Dion said that in the first year, the three chargers generated a combined total of \$1,177.50. However, the

WMGLD supplied \$1,333 worth of electricity used by the chargers. Dion attributed the deficit to the early days of COVID, when the chargers got almost no use. He said that since then, they have generally been a break-even proposition in terms of electricity usage and revenue coming in to the town.

Dombroski acknowledged that the past year may not have provided a good basis for evaluation. However, he said that he wanted to make sure that Wakefield's investment in EV-related infrastructure was not outpacing usage, which, he observed, "doesn't seem to be all that significant."



AN ELECTRIC VEHICLE charges at the Veterans Field charging station in November 2020.
(Mark Sardella Photo)

Light work



AN MGLD CREW tends to business at Water and Crescent streets and a police detail monitors traffic.
(Mark Sardella Photo)