

**Wakefield Municipal Gas and Light  
Department**

**Board of Commissioners**



**June 2, 2021**

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

**DATE:** June 2, 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

Meeting ID: 919 8610 3502

**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**

**June 2, 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 May 5, 2021 Minutes
- D. Old Business**
  - 1 Project Updates
  - 2 MMWEC Project 2015 A
  - 3 Green Options
- E. New Business**
  - 1 Colonial Gas Cyber Attack
  - 2 Gas Systems of the Future
  - 3 Board Recognition Discussion
- F. Any other matter not reasonably anticipated by the Chair**
- G. Executive Session –if necessary**
- H. Adjournment**



WMGLD  
P.O. BOX 190 480 North Ave.  
Wakefield, MA 01880  
Tel. (781) 246-6363 Fax (781) 246-0419

Peter D. Dion, General Manager

Philip Courcy, Chair  
Thomas Boettcher, Secretary  
Kenneth J. Chase, Jr.  
Jennifer Kallay  
John J. Warchol

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

**May 5, 2021**

**MINUTES**

**IN ATTENDANCE:**

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

### **Chair Remarks:**

Commr. Courcy congratulated Commr. Kallay on her reelection and welcomed Commr. Prifti as a new Board member.

### **Commissioner Remarks:**

Commr. Kallay inquired when the Board would resume in person meetings. Pete Dion stated that his recommendation is to continue with Zoom meetings for the next two meetings and decide in August if the September meeting will be in person. This will allow the public more time to be vaccinated.

Commr. Boettcher inquired if we were to come back in person can we require the public to be on Zoom or if we are in person, must it be an open meeting. Pete said he can discuss this issue with legal and report back to the Board.

Commr. Kallay asked if everyone feels comfortable coming back to in person meetings in September. Commr. Courcy and Commr. Boettcher said they would not feel comfortable. Pete said that this question can be asked again at the July meeting. Commr. Warchol stated that there should be guidance coming out at the State level about resuming in person meetings and that if we are all vaccinated, we should think about getting back in person as soon as possible.

### **Town Council Liaison Comments:**

Julie noted that on May 24, 2021, Commr. Boettcher and General Manager Dion will provide Town Council with an update on WMGLD's EV programs. She said that the Town Council is restructuring and assigning new liaisons, so there should be a new liaison to this board by the next Board meeting. She stated that the Governor's orders allowing Zoom meetings is still in effect. She thinks it is likely when Town Council returns to in person sessions the public will still be remote.

Commr. Boettcher advised that there was a request by a member of the public regarding the EV end of year online summary. Commr. Boettcher said the request was to have each individual charging station's revenue and the electric billing to the Town reported separately. Dave Polson noted that this individual information is reported on monthly, however the end of year report is a summarization of how the Town is doing collectively. Dave noted that he will incorporate each station's individual stats in the next report.

## Secretary's Report

Approval of minutes from the April 7, 2021 meeting was before the Board for approval. Commr. Boettcher's edits were already incorporated in the minutes in the Board book. Commr. Kallay had two minor edits.

**A motion** was made by Commr. Courcy to approve the April 7, 2021 Board minutes as ammended and seconded by Commr. Boettcher.

**Roll Call Vote:**

Commr. Boettcher	Aye
Commr. Courcy	Aye
Commr. Kallay	Aye
Commr. Prifti	Abstaining
Commr. Warchol	Aye

The motion was approved unanimously 4-0.

## Old Business:

### Project Updates

#### Nation Grid

Pete commented that the Gas Department has shifted its priorities temporarily as the gas main contractors are out of town, to allow the Town and National Grid work to proceed. The Police department is going to be very busy in May and early June with police details and training, so we will not be working on Lowell or Vernon Streets at this time but focusing on less traveled streets such as Grafton that will require fewer police details.

He also noted that the Electric Department has shifted it priorities from working on the 4kv conversion out of Wakefield Ave. substation to focusing on replacing cable on Circuit 4 from Albion St. to Wakefield Ave. There was a failure on that old cable last year and another failure this year, so we are replacing that feeder section. There are 2-3 sections left to replace. Engineering and Operations Manager Dave Polson noted some work will also be required on the other side of North Ave in the Chestnut St area. aThis project is estimated to be completed in June.

Pete stated that monthly meetings are being held with United Civil, DPW, WPD, and WMGLD to prioritize police details, so that Lt. Joe Anderson, with the police department can plan and secure police details for all the work. Commr. Kallay inquired as to the end date for all the work that needs to be completed. United Civil's goal is to have all the street digging done by the end of this year as long as the Town does not keep postponing their work schedules. It was decided that the Town will do the paving in exchange for

money instead of National Grid doing the work. Pete said that United Civil has been great to work with and has been very flexible with their work schedule. He stated that we are no longer directly involved but we are trying our best to help facilitate the completion of the work.

### **MMWC Project 2015 A**

Commr. Kallay stated that she along with Julie Smith-Galvin and a Wakefield resident participated in the April 26, 2021 Department of Public Utilities hearing on Special Project 2015A, Peabody Peaker Plant.

Julie Smith-Galvin noted that she testified on her own behalf and her comments focused on process and transparency. She testified that for over six months she has not been able to get clarity on the following: ownership & control, public input, consistency with current climate change, wetland protection and environmental/social justice laws, standards, and executive initiatives. In conclusion she asked that the DPU consider the issues she raised and deny public funding until it can be determined if the Peabody Peaker Plant is actually in the public interest.

Commr. Kallay's testimony concerned the economic value of the Peabody Peaker Plant. She focused on the near-term value and need versus long term value and need of this 30-year contract. She stated that the forward capacity market prices have decreased over the past 5 years and are projected to be low for a while. Therefore, the cost to build and operate this plant will be higher than the forward capacity market prices for a decade or potentially longer. She said load has dropped for a number of different reasons, resulting in excess supply, so there is no need for new capacity resources at this time or for a while. The long-term value and need is one of uncertainty. A lot has changed since 2015. Renewables are anticipated to come in strong and their prices will be lower than the price to build this plant. There will be cleaner options available. New legislation may make this plant illegal in the future. She requested that the DPU find that this plant is not in the public's best interest or deserving of financing at this time.

Commr. Courcy thanked Commr. Kallay and Julie Smith-Galvin for stating their positions as private citizens about this issue and stated that their concerns were certainly valid and well stated.

Commr. Kallay stated that she would like to see an updated vote on this plant. In preparation for this she requested to see in writing what WMGLD's legal obligation is to this project and what our options are. She would like to spend this meeting and the next to discuss this and be able to take a vote at the next meeting. Commr. Courcy stated we have plenty of time until the DPU shares the results of the hearing. Pete confirmed the results should be

public by May 26, 2021. He also stated that he gave the Board copies of the 2017 executed PPA which spells out our obligation. He noted that he also provided the Board in writing what we spent so far and what our obligation is going forward. He explained that we are currently committed to over \$2.6 million. Our only option is to request others to purchase our share of the project and that we, like Chicopee and Holyoke, can not simply walk away. He stressed that we are part of this project unless someone else wants our share. Commr. Kallay asked if it were legal for all participants to offer up their shares. Pete stated that there is some confusion around this. It is legal to offer up your shares to see if others want to purchase them. He continued to say that Chicopee & Holyoke are not walking away, they are asking if someone else wants to buy their shares. They are still legally obligated if no one buys their shares.

Pete stated that he and Commr. Kallay have discussed this issue and he does not agree with her view as to what will be happening over the next 10-30 years. He believes that the Climate Bill has accelerated the need for this plant and not reduced it. He stated that the one thing Commr. Kallay did not mention is that the forward capacity market price for this year is \$1.20 higher than what was forecasted. He continued to say that our region is very capacity constrained and that was the original justification for the project and that it has grown since. From an environmental perspective this unit will benefit the environment and not harm it. It will help take more polluting units offline or replace them in current markets because units like Peabody will have the most efficient and cleanest technologies for gas. It will bump out plants like Wyman in Maine and the coal plant in Bow, New Hampshire and the other 5 oil plants that still exist in New England. By not allowing the Peabody plant project, it will force these units to continue to run longer.

Commr. Kallay said the capacity market is \$3.98 and the cost to build and operate the plant is over \$4.00 even though they are fluctuating at a level up and down below that value. The second point is that when batteries come into the market, they will be cleaner to run than natural gas and will bump us everyone else out. Pete said that batteries have limitations and in most cases can only run for up to 2 hours at full output. Commr. Kallay said that 2 hours is the eligibility requirement to play in the market. Pete stated that is correct, but it is this Board's obligation is to keep the lights on. Batteries start and stop where generators run for the duration. Batteries are a great tool at curbing the highest peak, but not a good tool for serving load over an extended period of time.

Commr. Prifti inquired as to what the megawatt hours are that you are trying to shave off the peak. Pete stated that we are just trying to reduce our peak as much as possible. We try to decide how long we think the

variability of the peak is and when the upper peak will be. We run the batteries at the highest peak. We may also run the battery at a lower output. The generators are run for the whole window of time, where ISO New England is looking at serving the entire peak for the whole region.

Commr. Prifti asked Commr. Kallay if her projection took into consideration the Climate Bill and the increase in electrification. She replied that she did not have an answer to that question, but when the projections were developed it was November 2020 and the bill had not been signed yet. Pete added that there was no aggressive load increase in the projected forecast as they were very conservative. He did note that with the last forward capacity auction it continues to show huge variability. The price for capacity in the Northeast Massachusetts region was \$1.20 over the original forecast, showing that capacity is going to be needed. He explained that what we are trying to do with the Peabody plant is to force some of the older, more polluting units into retirement. The only way you are going to do that is to have smaller units that can run on demand and only when needed, but not run all the time. It will be fair to assume that offshore wind will increasingly serve a greater share of the kwh requirements of region, but when you need to serve peak demand, you will need to utilize these smaller units. Without units like Peabody, ISO will keep units like Wyman, Bow, and Edgar in Weymouth, running because it is ISO's responsibility to keep the lights on for the entire region. He noted that Edgar is the dirtiest unit in Massachusetts having been built over 20 years ago.

Pete went on to say that offshore wind will get a capacity value but it will be limited in comparison to its nameplate output. A 600-megawatt off shore wind farm, will receive a capacity value of something less than half of that. He noted that another concern is extreme weather conditions. For example, if we get 20-25 percent reliance on offshore wind, what happens if we get a hurricane or a nor easter. Wind turbines cannot over speed. They are shut down when winds reach 55-60 MPH, so we need to insure our supply from at that point.

Commr. Kallay commented that this is a great conversation because it is important for her to figure out what Wakefield is responsible for doing and not responsible for doing on behalf of our ratepayers. She feels conflicted, if it is Wakefield ratepayer's responsibility for the closing or retiring some of these older dirtier plants that are not in our jurisdiction. She said in talking to people in the industry, it is a mystery why these plants are still running. She remarked that it probably will not be too long before these units are retired anyway. Pete stated that they can not shut down until there is capacity to replace them. They will move them to a reliability must run contract because they are going to be needed. That is why Mystic is being held in the market for four more years. Commr. Kallay said it is not

mandatory that capacity be peak or gas peak capacity. Pete said no but it has to be capacity that you can rely on. Commr. Kallay stated there will be more capacity from other resources entering the market. Pete said he disagrees and is concerned for the reliability of the region. He said any offshore wind or solar cannot be relied on in the same way a gas peaking unit can. We can push the button at any time of day or night on a gas peaking unit and have reliability.

Commr. Kallay noted that we put a lot of preference on utility-controlled solutions versus customer sited solutions. She noted we need to focus on customer sited solutions. She claimed that customer sited batteries and EVs can play a role in reliability in the future. The focus does not have to be on utility side large scale projects.

Commr. Courcy disagreed and noted that we have spent a lot of time, perhaps a disproportional amount of time, on the demand customer side of the meter with the electric vehicles and heat pumps. We do not spend that much time on bulk power. Commr. Kallay said the majority that we spend our budget on is bulk power. Commr. Courcy stated that is the business we are in. Pete explained that our obligation is that every time someone in Wakefield goes home and flips the switch their lights go on. We cannot put that obligation onto individual ratepayers that may not be able to implement customer side solutions. Our obligation is to serve Wakefield and the region. There are 14 participants in this Peabody project that represent municipals from different regions within the state, who discussed the environmental impact this plant would have for over the next 20 years. Pete told Commr. Kallay that if she is right and the unit never has to run, it is still there to ensure reliability. Right now, there is no path that shows that any of these renewable resources or batteries can fit the same role that this unit can fit in the global portfolio.

Commr. Kallay said that we can purchase low-cost power in the capacity market until the future becomes clearer. She sees no reason to build this plant in 2021. She stated that we have capacity resources that will be coming offline in the future such as some of the gas and nuclear plants and that would be a better time to examine adding a large capacity resource or making a significant investment in a capacity resource. Commr. Courcy added that it is not a switch you can just turn on. This project has been in development for seven years. These things need to be planned. Commr. Kallay said we have a timeframe of retirement dates on plants. So we know when capacity will come off line. Pete said Peabody may retire some of these dirtier plants. The region as a whole will have a greater asset base that will force the dirtier plants out sooner. Commr. Kallay said they will be

forced out by batteries. She noted that there is not a derate and batteries go into the market at 100 percent capacity for 2 hours. Pete stated that you have to forecast the duration of the peak. Dave Polson showed a graph from April 16, 2020 which illustrated a flat peak where the generators ran for longer periods of time and the battery was run for a short window. The battery was not run at full output. The battery output varies depending on the forecasted peak.

Commr. Boettcher stated with battery technology advancing and battery prices coming down it seems that they may be a viable option to replace our capacity. He inquired if we were to replace our capacity with battery how much battery would we get for the cost of the Peabody Peaker plant. Pete stated at current prices it would cost twice as much, around \$172 million dollars and take up to six times the land area at 3.5-4.0 acres versus a half-acre. So, it would be double the cost to get that limited window whereas with the Peabody Peaker plant you have an unlimited window. Pete noted that we need to continue in investing in renewables. Pete mentioned that we are talking about investing in smaller resources and that in the future, it will be an accumulation of many, many smaller pieces, but that list of resources needs to be diverse, so we have reliability. If we only rely on one resource, it will not be available at all times of the year and we will have to worry about reliability.

Commr. Kallay said just to be clear we do not have to build anything we can buy all our remaining capacity from the market and the lights still will not go out. Pete said yes for the short term, but it is a misnomer to make the economic argument because then we would never have built Berkshire Wind, which is 3.3 cents higher than the market. Commr. Kallay said that it is the reverse, while renewables are more expensive in short term, but over the longer term a lower cost. Pete said is that not what we just said about the forward capacity market. We invested in Peabody and continue to invest in renewable resources and hopefully they come into the market, but that is just as unknown. Commr. Kallay said this is the reverse where a large long-term fossil plant is the riskiest investment in the next thirty years you can make. The economics for natural gas in the 2040-2050-year range is certainly unknown. A lot of the value proposition of this plant is reliant of the economics in this time period, so it is the reverse where renewables are more valuable overtime. She continued to say that it comes down to what price premium you are willing to pay. She thinks this price premium for this resource is too high for Wakefield to bare. She said that for you, Pete, you feel that this price premium is worth it. You have a different risk profile and opinion. It comes down to cost and risk and everyone has a different prospective on that. Commr. Courcy agreed and stated that this item will be added to the June agenda.

## **Collective Bargaining**

Pete informed the Board that both associations voted and approved a one-year extension of the existing agreements and that we will not enter negotiations until next year.

## **New Business**

### **Green Options**

Pete noted that several utilities have Green Choice or Non-Carbon Emitting Supply options that they offer to their customers. He said in a recent State house delegation, the question was asked if WMGLD had such an option. There are basically two options available, a per cent per kwh basis or as a fixed rate option. The mechanism that would be the cleanest for the billing system would be a cents per kwh for the balance of the portfolio. If a customer wanted to make their entire supply non-carbon emitting it would be at a rate of 2.213 cents per kwh opposed to opting for renewables at 3.929 cents per kwh. They would have the option to opt in and out. We would purchase RECs to be retired with the money from this program. Commr. Kallay inquired if this would be separate from the Community Solar program. Pete stated it would be separate, but customers could purchase Green Choice for the difference in their portfolio. She also inquired as to which program would be the least expensive. Pete stated that we do not have the cost for the Community Solar project yet. Commr. Boettcher inquired if the solar program would go into our portfolio, or a community project where ratepayers could buy shares. Pete stated the Community Solar project went out on an RFP, so we can analyze how best to proceed with that project. Commr. Boettcher asked if we are required to buy Mass Class 1 RECs to retire or can we choose any RECs. Pete said most Massachusetts programs are choosing Mass RECs. Pete said the 2.213 cents and 3.929 cents number could potentially go down as we become more non-carbon emitting and increase our renewables and the prices of RECs would also go down.

Commr. Kallay inquired if these prices would fluctuate. Pete stated that they would be reset on an annual basis after looking at the projection for non-carbon percentage and the projected costs of the RECs.

Commr. Boettcher asked if there are any upfront costs to set up this program and projected number of customers that would take advantage of this program. Pete said it is not a huge number probably

in 20-100 range. There would be limited amount of work internally to modify the billing system to accommodate this. The simpler we keep this, the less cost there will be in the set up.

Commr. Warchol inquired about the mechanics of setting up this program. Pete stated that at end of year we would buy the correct number of RECs and retire them. Commr. Warchol noted that WMGLD is going green anyway and questioned why ratepayers should absorb these costs. Commr. Boettcher suggested that by providing this option it may help move the needle faster and that not everyone has the option to build wind or solar. He also noted that this would be for customers that want to be at 100 percent right away and this would not take away from any future WMGLD renewable projects. Discussion ensued further and it was decided that Pete will research different ways to market this program, as well as how other municipalities have implemented their programs and bring this information back to the Board for future discussions.

### **Board Reorganization**

Commr. Courcy had discussions with Pete about the order of succession. Tom Boettcher will move to chair and Elton Prifti will take over Ken Chase's slot and move to secretary.

Commr. Warchol stated there has never been a contentious vote on reorganization and we have always followed the order of succession. .

**A motion** to nominate Commr. Boettcher as Chair and Commr. Prifti as Secretary was made by Commr. Warchol and seconded by Commr. Courcy.

**Roll Call Vote:** Commr. Boettcher      Aye

Commr. Courcy                      Aye

Commr. Kallay                      Aye

Commr. Prifti                      Aye

Commr. Warchol                  Aye

The motion was approved unanimously 5-0.

**Any other matter not reasonably anticipated by the Chair.**

Commr. Boettcher mentioned to the Board that he is the liaison to the Environmental Sustainability Committee and is happy to continue, however if someone else is interested in serving he will certainly defer to them.

**A motion** to continue to keep Commr. Boettcher as liaison to the Environmental Sustainability Committee for the next twelve months was made by Commr. Kallay and seconded by Commr. Courcy.

**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.

Pete mentioned that the only other item is the DPU Annual Report that was included in the board package and asked if anyone had any questions. Commr. Kallay asked if this can be included on our website. Pete said that we will create a separate tab on the website.

**A motion** to adjourn was made at 8:33 pm by Commr. Courcy 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.



MAY 2021 WMGLD COMMISSIONER'S DASHBOARD

Outages ( Elec )

	SAIFI	CAIDI
Feb	0.57	57
Mar	0.58	56
Apr	0.62	49
Cal YTD	0.58	53

FYTD WMGLD Generation - April

	Salem St.	Battery	Total
RNS Benefit	\$ 545,863	\$ 287,204	\$ 833,067
Capacity Benefit	403,731	200,479	604,210
Debt Service	(531,506)	(205,389)	(736,895)
Net Benefit	\$ 418,088	\$ 282,294	\$ 700,382

CYTD Pipe Replacement

	Replaced	System Total
4"	5,959	173,838
6"	50	151,317
8"	840	81,045

CONSERVATION BUDGET

YTD FY21 Conservation Billed	\$	124,567
YTD FY21 Paid out to Customers:		
287 Appliances & Thermostats	\$	(17,452)
62 Air Sealing ( insulation/windows )		(53,919)
97 Heating & Cooling		(67,400)
15 Residential Solar		(62,978)

New Services on the System

	Electric	Gas
Feb	1	-
Mar	2	1
Apr	2	2

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 63 Customers

	Generated	Back to WMGLD
CYTD	478,429	172,594
Comm'l	5,645,880	1,119,800
Res	1,385,720	741,651
Inception	7,031,600	706,025

FYTD Sales 10 Mos. → 4/30/21

	Electric	Gas	Total
\$\$	\$22,248,793	\$8,726,803	\$ 30,975,596
kWh/CCF	139,122,957	5,459,853	

Monthly & Annual Peaks

	Prior Year	Current Year
Feb	25.2 Mw	27.3 Mw
Mar	23.8 Mw	25.7 Mw
Apr	21.8 Mw	22.1 Mw

Summer YTD Peak

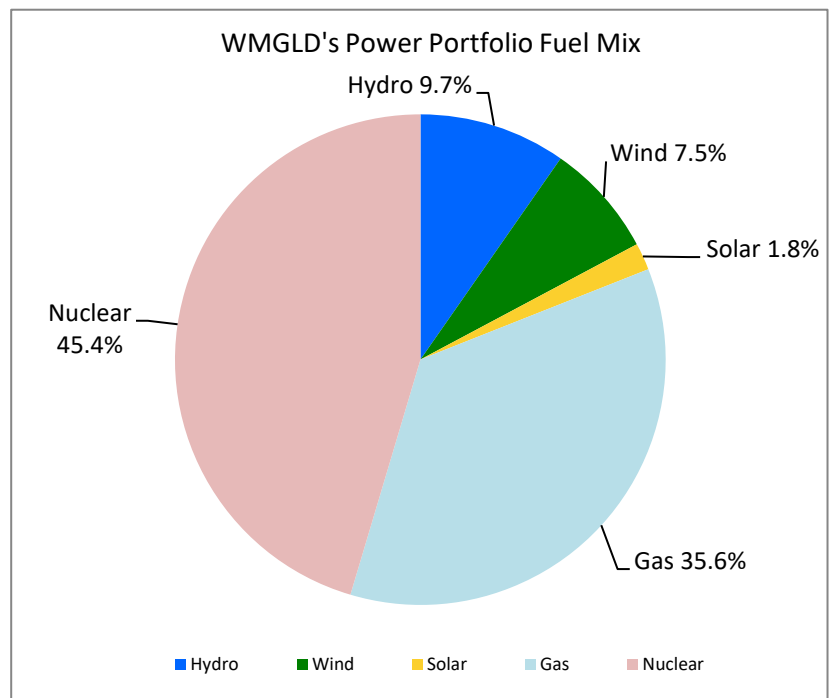
7/31/19	7/28/20
42.5 Mw	44.0 Mw

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



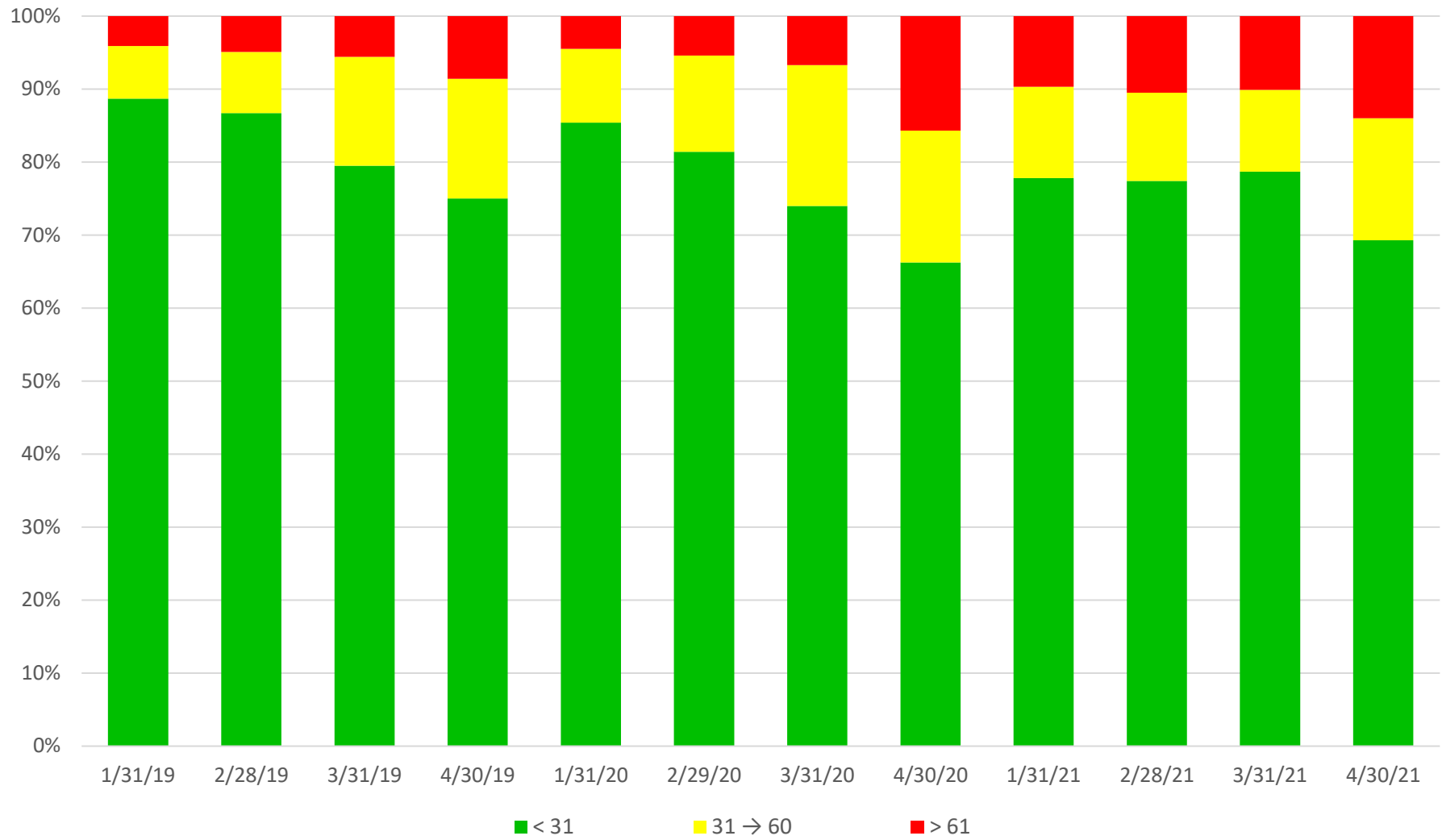
Wakefield Municipal Gas & Light Department  
Customer Issues Log

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

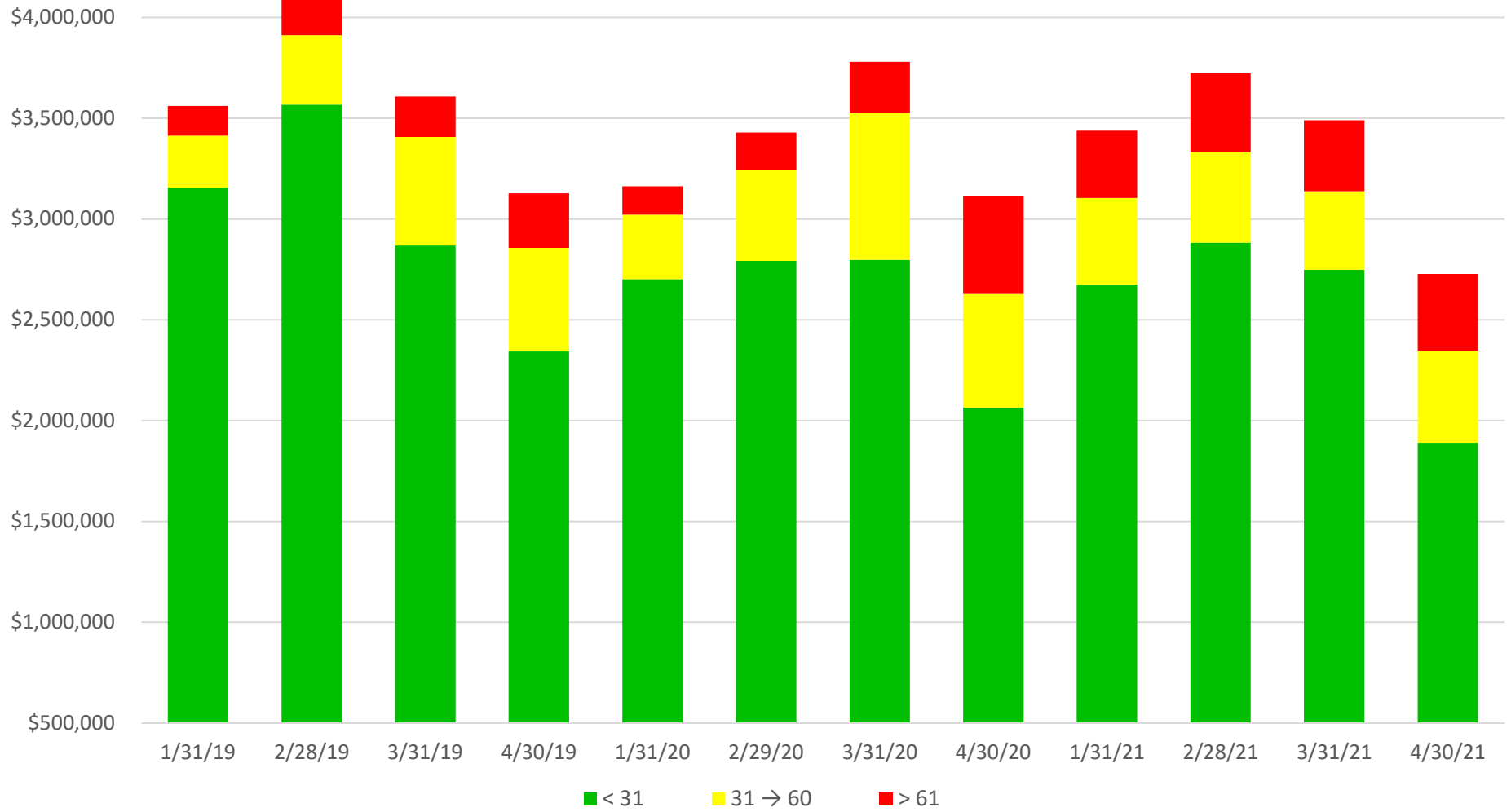
<b>COMMISSIONER REQUESTS LOG</b>	Requested By	Request Date	Completion	NOTES
			Date	
Review net metering policy	JK	12/5/2018	1/9/2019	
Add completion dates to this form	JW	12/5/2018	1/9/2019	
Remove identifying information on customer requests	JW	12/5/2018	1/9/2019	
Add solar to supply mix	JK	12/5/2018	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	

<b>COMMISSIONER REQUESTS LOG</b>	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 April 30, 2021



Receivables Aging - As of April 30, 2021



	RAW DATA - RECEIVABLES GRAPHS				RAW DATA - RECEIVABLES GRAPHS			
	1/31/21		2/28/21		3/31/21		4/30/21	
< 31	\$2,675,178	77.8%	\$2,882,545	77.4%	\$2,748,726	78.7%	\$1,889,746	69.3%
31 → 60	429,369	12.5%	449,901	12.1%	389,735	11.2%	456,451	16.7%
> 61	333,062	9.7%	391,210	10.5%	351,448	10.1%	380,915	14.0%
Total	\$3,437,609	<b>26.3</b>	\$3,723,656	<b>27.9</b>	\$3,489,909	<b>26.3</b>	\$2,727,112	<b>22.2</b>

	1/31/20		2/29/20		3/31/20		4/30/20	
< 31	\$2,701,115	85.4%	\$2,791,702	81.4%	\$2,797,449	74.0%	\$2,797,449	66.3%
31 → 60	320,144	10.1%	453,928	13.2%	728,941	19.3%	728,941	18.1%
> 61	141,767	4.5%	183,927	5.4%	253,236	6.7%	253,236	15.7%
Total	\$3,163,026	<b>23.4</b>	\$3,429,557	<b>25.4</b>	\$3,779,626	<b>28.2</b>	\$3,779,626	<b>25.1</b>

	1/31/19		2/28/19		3/31/19		4/30/19	
< 31	\$3,156,118	88.7%	\$3,567,807	86.7%	\$2,868,480	79.5%	\$2,868,480	75.0%
31 → 60	256,792	7.2%	343,765	8.4%	538,761	14.9%	538,761	16.4%
> 61	147,726	4.1%	201,025	4.9%	200,567	5.6%	200,567	8.6%
Total	\$3,560,636	<b>24.7</b>	\$4,112,597	<b>27.6</b>	\$3,607,808	<b>25.0</b>	\$3,607,808	<b>23.4</b>

Notes: Gross Receivables from customer accounts are aged at month-end.  
At 4/30/21, the >61 day balance of \$380,915 was analyzed in detail - results include 185 unique accounts which make up \$281,951 of the \$380,915 balance with >61 day account balances ranging from \$13,405 to \$500  
DSO Ratio is also presented in **RED**

	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES	REVENUES		
	1/31/21	2/28/21	3/31/21	4/30/21	1/31/20	2/29/20	3/31/20	4/30/20
ELECTRIC	2,278,999	2,262,036	2,268,849	1,901,715	2,386,420	2,386,516	2,244,545	1,938,168
GAS	1,643,351	1,813,020	1,683,131	892,185	1,666,969	1,665,426	1,706,790	876,110
TOTAL	\$3,922,350	\$4,075,056	\$3,951,980	\$2,793,900	\$4,053,389	\$4,051,942	\$3,951,335	\$2,814,278

	1/31/19	2/28/19	3/31/19	4/30/19
ELECTRIC	2,580,869	2,585,439	2,327,985	1,990,000
GAS	1,738,574	2,048,298	1,713,540	1,080,599
TOTAL	\$4,319,443	\$4,633,737	\$4,041,525	\$3,070,599


# Electric Vehicle Public Charging Stations

## Dashboard – May 2021


EV Charging Stations				
Utility Billing and Town Revenue				
May-21				
Locations	Utility Billing	KWh	Town Revenue From Charge Point	KWh
Vets Field	\$45.63	145	\$24.35	135
Civic Center	\$10.73	66	\$11.82	66
Public Parking Lot	\$69.31	318	\$60.04	266
<b>Totals</b>	<b>\$125.67</b>	<b>528.65</b>	<b>\$96.21</b>	<b>467</b>

Environment  
Lifetime

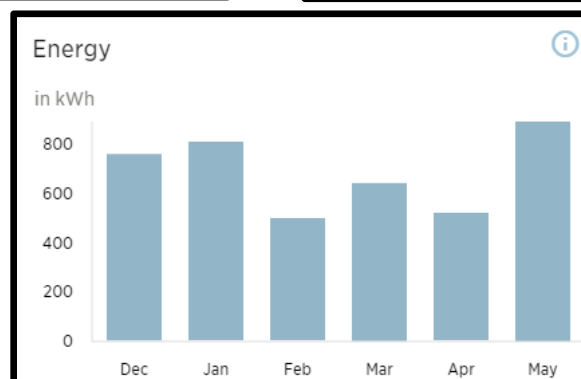
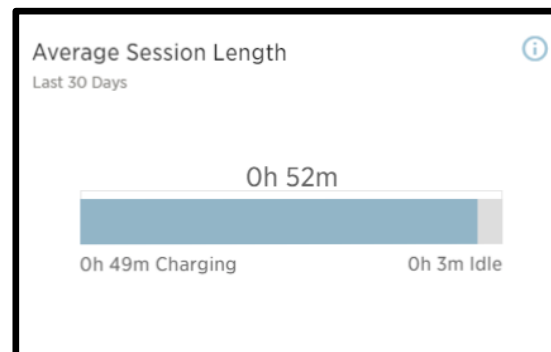
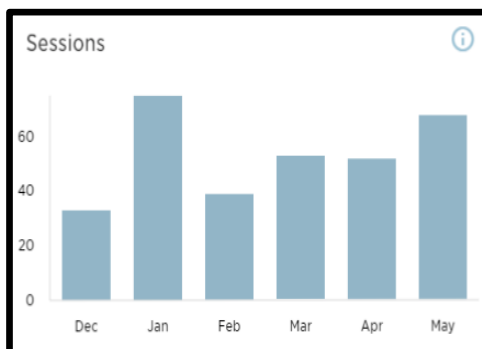
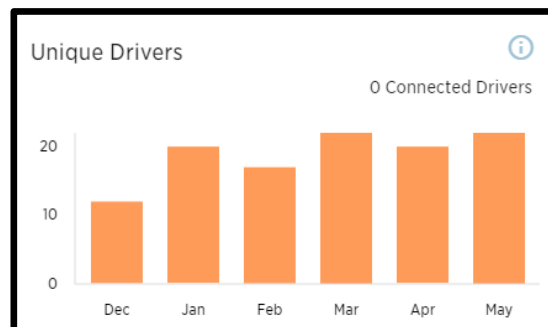
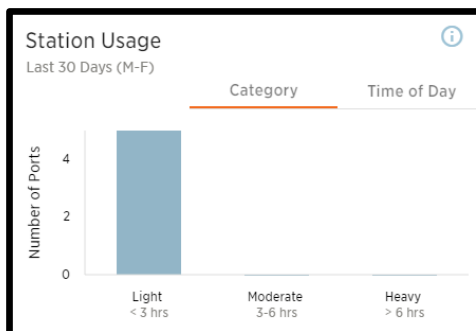
Here's how EV charging has helped:



You've avoided  
**3,692** kg  
greenhouse gas emissions



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



# SENSE Monitors

## May 2021 Summary

### WMGLD Fleet Overview

#### Monitors

<b>11</b> Total	<b>0</b> Not Sharing Data	<b>0</b> Offline <small>(for 10 minutes or more)</small>	<b>2</b> Uninstalled
<b>0</b> Solar	<b>0</b> Generator	<b>1</b> 400A	<b>1</b> Dedicated Circuit

Status	Job ID	Serial Number	Install Date	Address	Production (Yesterday)	Consumption (Yesterday)
UP		<a href="#">N041002835</a>	11/11/2020	23 Wakefield Ave., Wakefield, MA	---	12.82 kWh
UP		<a href="#">N033000112</a>	10/29/2020	23 Butternut , Wakefield, MA	---	34.64 kWh
UP		<a href="#">N034000028</a>	11/03/2020	2 Stoney Hill, Wakefield, MA	---	45.24 kWh
UP		<a href="#">N040002162</a>	01/06/2021	12 Linda Rd., Wakefield, MA	---	21.09 kWh
UP		<a href="#">N032000433</a>	11/07/2020	13 Jennifer rd, Wakefield, MA	---	56.39 kWh
UP		<a href="#">N042030177</a>	05/15/2021		---	45.99 kWh
UP		<a href="#">N033000569</a>	11/02/2020		---	6.45 kWh
UP		<a href="#">N034000045</a>	11/02/2020	3 Auburn St, Wakefield, MA	---	8.03 kWh
UP		<a href="#">N038001783</a>	01/10/2021	157 Parker Rd., Wakefield, MA	---	17.98 kWh
PENDING		<a href="#">N011000399</a>	---		---	---
PENDING		<a href="#">N035000244</a>	---		---	---

## General Manager's Report

The following is the General Managers Report for June, 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. **Transformer installed on 12/15/2020 – waiting on customer to finalize easement agreement before we energize.**
- **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**

#### **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 Grafton Street is continuing in addition to work on Sylvan Ave and Gail Cir.
- 641 meters have been replaced so far this year with a target of 1091 for the year.

- There are currently 2169 inside gas services and 2942 outside services. 61 services have been moved outside this year.
- Leaks    Class 1 – 0\*    Class 2 – 3    Class 3 –71

\*(0 - Class 1 Leaks this month)

### **Financial Reports**

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

## **Project Updates**

### **COVID 19**

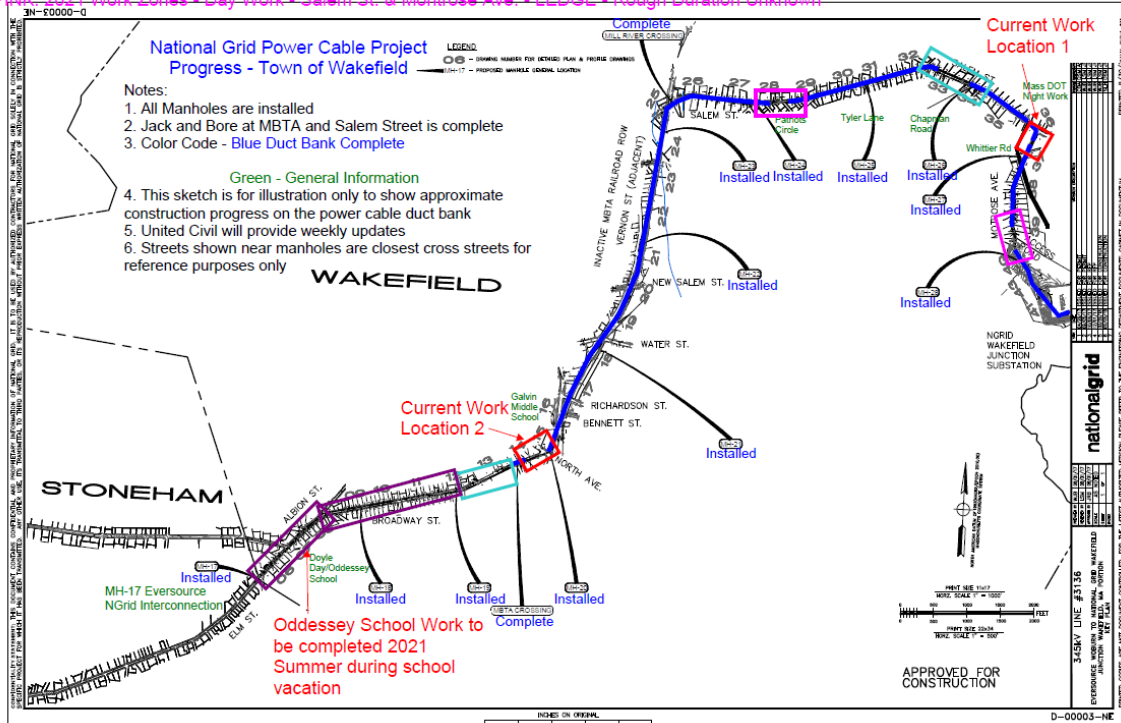
The department was reopened on May 3. 35 of our 43 employees have been vaccinated. We are following all CDC guidelines and we are maintaining a mask requirement for customers entering the building and for anyone on the staff that has not been vaccinated.

### **NGrid 345kv Project Update NGRID**

Project Schedule Updates:

- 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) may occur in the April/May timeframe. United Civil and McCourt (Eversource contractor) will coordinate the construction and will provide 3 weeks advance notice.
- Approx. 75 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



**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)**

#### **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 their pole sets
- 397-04 Ballister St area convert to 1302/0005 – **(ordering material)**.
- 397-03 Lake St. and Maple to 0005 – **(on hold)**

#### **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)**

#### **Before**



**After**



**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)**

**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.

**No votes required at this time - Discussion only**

**WMGLD's Customer Choice**

In a recent meeting our State House delegation, the question was asked whether we have such an option. We will discuss the concept and different options for a program like this for our customers.

The estimate for a MA class 1 REC for 2021 is \$44

The estimate for Wakefield Non-Carbon for 2021 is 49.7%

The estimate for Wakefield Renewable for 2021 is 10.7%

The voluntary rate per kwh for 2021 to reach 100%

Non-Carbon 2.213 cents

Renewable 3.929 cents

**CUSTOMER CHOICE. (Draft copy)**

The Wakefield Municipal Gas and Light Department (WMGLD) is letting customers reduce their carbon footprint by having a say in the source of their

electricity. The WMGLD portfolio is already almost 50% non-carbon emitting and for customers that choose our new CUSTOMER CHOICE program, customers can be sure that all, of their electricity comes from non-carbon emitting sources like solar, wind, hydro and other clean sources.

Here's how it works: WMGLD customers can choose to pay an additional \$.0222 per kilowatt-hour for the kilowatt hours they use and the department will purchase Massachusetts Class 1 Renewable Energy Credits (REC) to ensure that 100% of their energy supply is NON CARBON EMITTING. A REC is generated each time one megawatt (MWh) hour of non-carbon emitting energy is generated and delivered to the grid.

One hundred percent of the funds collected through the CUSTOMER CHOICE program will be used to purchase and retirement of renewable energy credit certificates, ensuring that 100% of your supply is carbon free. For the average customers who uses 750 kilowatt-hours each month, that's an additional \$17 per month. While customers can not select each individual source that will be delivered to their homes, they can be assured that the energy they receive is fully derived from non-carbon emitting sources. That's a great step in reducing our carbon footprint!

**No votes required at this time - Discussion only**

**Board of Commissioners  
June 2, 2021  
Agenda Item No. E-1**

### **Colonial Gas Cyber Attack**

The cyber attack on the Colonial Gas Pipeline system was just the latest in an increasing number of attacks on the nation's infra structure through cyber criminals. Although no individual or company is immune or fully protected, we must constantly be aware of the threats and work to minimize their impact.

**No votes required at this time - Discussion only**

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

## **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 could consider looking at and supporting. Concepts such as installation of ground source heat pump infrastructure and transitioning from a gas utility to a thermal utility.

**No votes required at this time - Discussion only**

**Board of Commissioners  
June 2, 2021  
Agenda Item No. E-3**

## **Board Recognition**

The Board of Light Commissioners would like to discuss the recognition of recent retirements. Four members of the staff and one long serving member of the Board have retired this 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**

	3/31/2020	3/31/2021
<b>ASSETS</b>		
Sinking Fund - Self Insurance	\$ 179,357.49	\$ 179,938.84
Depreciation Fund	182,741.17	182,878.27
Consumer Deposits	873,635.53	880,288.26
<b>Total Investments</b>	<b><u>1,235,734.19</u></b>	<b><u>1,243,105.37</u></b>
Operating Cash	12,540,185.04	13,691,934.35
Depreciation Fund	2,720.78	2,722.39
Consumer Deposits	288,244.17	311,623.63
Petty Cash	525.00	525.00
<b>Total Cash</b>	<b><u>12,831,674.99</u></b>	<b><u>14,006,805.37</u></b>
Accounts Receivable-Rates	3,732,154.40	3,679,110.76
Accounts Receivable-Other	2,336,995.84	2,080,731.59
Inventory	515,137.64	724,071.98
Prepayments Miscellaneous	740,297.00	700,416.36
Prepayments Power	3,608,690.70	3,680,044.55
Other Deferred Debits	1,112,116.18	1,126,525.21
<b>Total Other Assets</b>	<b><u>12,045,391.76</u></b>	<b><u>11,990,900.45</u></b>
<b>Total Current Assets</b>	<b>26,112,800.94</b>	<b>27,240,811.19</b>
Distribution Plant	20,706,882.27	19,622,827.24
General Plant	1,422,472.76	1,478,789.06
<b>Net Fixed Assets</b>	<b><u>22,129,355.03</u></b>	<b><u>21,101,616.30</u></b>
<b>Total Assets</b>	<b><u><u>\$ 48,242,155.97</u></u></b>	<b><u><u>\$ 48,342,427.49</u></u></b>
<b>LIABILITIES AND EQUITY</b>		
Accounts Payable	\$ 116,014.79	\$ 170,593.15
Consumer Deposits	1,161,879.70	1,191,911.89
Other Accrued Liabilities	3,734.36	1,097.91
Reserve for Uncollectable Accounts	108,563.84	218,397.21
<b>Total Current Liabilities</b>	<b><u>1,390,192.69</u></b>	<b><u>1,582,000.16</u></b>
Compensated Absences	460,003.07	467,256.96
MMWEC Pooled Loan Debt	14,100,298.83	12,429,116.38
OPEB Liability	1,915,566.25	1,936,702.25
Pension Liability	7,948,500.00	7,743,000.00
<b>Total Long Term Liabilities</b>	<b><u>24,424,368.15</u></b>	<b><u>22,576,075.59</u></b>
<b>Total Liabilities</b>	<b>25,814,560.84</b>	<b>24,158,075.75</b>
Retained Earnings	8,619,962.70	10,396,846.32
Year to Date Income	2,670,549.90	1,850,171.54
Sinking Fund Reserve-Self Ins	179,357.49	179,938.84
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
<b>Total Equity</b>	<b><u>22,427,595.13</u></b>	<b><u>24,184,351.74</u></b>
<b>Total Liabilities and Equity</b>	<b><u><u>\$ 48,242,155.97</u></u></b>	<b><u><u>\$ 48,342,427.49</u></u></b>

**Wakefield Municipal Gas and Light Department**  
**Income Statement - Electric Fund**  
**For the Nine Months Ending, March 31, 2021**

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
<b>Energy Revenue (Net of Discounts)</b>				
Residential Sales	\$ 1,024,419.50	\$ 1,127,951.59	\$ 9,990,350.80	\$ 10,763,386.32
Commercial Sales	1,019,391.63	974,478.85	9,670,887.04	8,568,159.35
Street Lighting	15,678.00	15,678.00	141,097.00	141,097.00
Municipal Sales	89,697.62	91,878.09	866,599.97	808,026.77
Private Area Lighting	7,297.50	7,399.00	67,126.57	66,407.83
<b>Total Energy Revenue</b>	<b>2,156,484.25</b>	<b>2,217,385.53</b>	<b>20,736,061.38</b>	<b>20,347,077.27</b>
<b>Other Revenues</b>				
Unbilled Revenue	-	-	-	-
Interest Income-Consumer Deposits	906.65	408.94	10,672.03	4,393.96
Interest Income-Depreciation Fund	12.12	11.77	107.36	103.96
Interest Income-Self Ins Sinking Fund	208.55	20.30	2,677.75	289.14
Interest Income-MMWEC	2,726.37	(1,876.01)	28,273.13	4,148.52
Income from Merchandise & Jobbing	(6,005.11)	(11,612.02)	(60,610.72)	(201,651.39)
Other Revenues	(93.40)	-	(770.83)	(6,110.26)
Sales Tax	56,529.54	51,651.57	523,359.14	468,362.46
Conservation Charge	8,695.36	16,458.29	50,721.44	109,462.18
Reconnect Fees	100.00		4,375.00	800.00
Comcast & RCN Pole Fees	-	16,869.82	33,763.36	103,955.37
Insurance Reimbursements	24,602.50	6,100.00	31,225.06	6,100.00
Other Electric Revenue	378.51	434.66	4,138.63	1,794.73
<b>Total Other Revenue</b>	<b>88,061.09</b>	<b>78,567.32</b>	<b>627,931.35</b>	<b>491,648.67</b>
<b>Total Revenue</b>	<b>2,244,545.34</b>	<b>2,295,952.85</b>	<b>21,363,992.73</b>	<b>20,838,725.94</b>
<b>Power Costs</b>				
Purchased Power	(1,068,822.70)	(1,105,934.52)	(10,964,532.16)	(10,563,146.39)
Power Expense Generation	(21,358.57)	(9,438.01)	(111,355.07)	(88,856.46)
Power Expense Battery	(15,128.75)	(6,793.53)	(84,279.00)	(62,454.09)
<b>Total Power Costs</b>	<b>(1,105,310.02)</b>	<b>(1,122,166.06)</b>	<b>(11,160,166.23)</b>	<b>(10,714,456.94)</b>
<b>Gross Profit</b>	<b>\$ 1,139,235.32</b>	<b>\$ 1,173,786.79</b>	<b>\$ 10,203,826.50</b>	<b>\$ 10,124,269.00</b>
<b>Operating Expenses</b>				
<b>Miscellaneous Operating Expenses</b>				
Depreciation Expense	(240,435.59)	(240,062.49)	(2,046,255.38)	(2,162,800.69)
Sales Tax	(56,454.93)	(51,651.57)	(523,284.53)	(468,362.46)
Interest Expense-Consumer Deposits	(1,980.93)	(376.25)	(26,436.83)	(13,196.73)
Interest Expense-MMWEC	(40,606.50)	(22,619.11)	(224,114.12)	(191,129.18)
<b>Total Misc Operating Expenses</b>	<b>(339,477.95)</b>	<b>(314,709.42)</b>	<b>(2,820,090.86)</b>	<b>(2,835,489.06)</b>
<b>Distribution Expenses</b>				
Operations Supervision and Engineering	(10,293.76)	(10,320.12)	(160,541.25)	(147,257.93)
Operations Labor	6,514.70	6,680.33	5,781.55	18,303.16
Substation Salaries and Expense	(46,863.24)	(63,069.45)	(391,347.68)	(461,369.28)
Customer Installation Expenses	281.69	139.25	(2,083.02)	(20,443.62)
Miscellaneous Distribution Expenses	(75,141.18)	(58,937.61)	(554,374.01)	(489,068.52)
<b>Total Distribution Expenses</b>	<b>(125,501.79)</b>	<b>(125,507.60)</b>	<b>(1,102,564.41)</b>	<b>(1,099,836.19)</b>

**Wakefield Municipal Gas and Light Department**  
**Income Statement - Electric Fund**  
**For the Nine Months Ending, March 31, 2021**

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
<b>Maintenance Expenses</b>				
Maintenance Supervision and Engineering	(16,950.59)	(18,763.80)	(139,697.40)	(163,830.60)
Maintenance of Station Equipment	-	-	(367.95)	(1,534.84)
Maintenance of Other Equipment	-	-	(6,580.04)	(3,877.02)
Maintenance of Overhead Lines	(168,917.02)	(48,290.89)	(469,926.54)	(452,825.61)
Maintenance of Underground Lines	(1,275.38)	(279.13)	(14,205.84)	(8,360.76)
Maintenance of Line Transformers	-	-	(877.50)	-
Maintenance of Street Lighting	(621.37)	-	(24,964.29)	(201.25)
Maintenance of Meters	281.69	139.25	(34,796.22)	1,054.38
Maintenance of Misc Distribution Plant	(3,339.18)	(3,661.62)	(40,554.95)	(36,088.98)
<b>Total Maintenance Expenses</b>	<b>(190,821.85)</b>	<b>(70,856.19)</b>	<b>(731,970.73)</b>	<b>(665,664.68)</b>
<b>Customer Account Expense</b>				
Meter Reading Expense	(3,415.37)	(3,735.71)	(32,117.83)	(57,502.48)
Customer Records & Collection Exp	(66,938.45)	(53,712.95)	(552,816.44)	(533,261.58)
<b>Total Customer Account Exp</b>	<b>(70,353.82)</b>	<b>(57,448.66)</b>	<b>(584,934.27)</b>	<b>(590,764.06)</b>
<b>Administrative and General Expenses</b>				
Community Relations & Advertising	(60,667.79)	(8,872.56)	(176,841.72)	(42,105.86)
Administrative Salaries and Expense	(15,648.52)	(26,189.42)	(162,213.52)	(163,817.77)
Business Mgr and Accting Salaries and Exp	(13,308.86)	(27,940.11)	(113,266.56)	(157,233.44)
MIS Salaries and Expense	(10,568.79)	(10,448.93)	(202,006.41)	(132,818.29)
Outside Services	(4,875.00)	-	(19,875.00)	(20,250.00)
Conservation & Rebates	(14,056.95)	(28,001.58)	(119,197.52)	(206,743.54)
Property Insurance	(4,740.25)	(5,375.08)	(42,662.25)	(48,375.76)
Injuries and Damages	(5,208.92)	(4,624.96)	(51,154.98)	(43,255.07)
Employee Pensions and Benefits	(132,006.15)	(142,833.02)	(1,253,199.89)	(1,314,374.25)
Miscellaneous General Expenses	(4,042.57)	241.36	(63,778.21)	(65,622.89)
Maintenance of General Plant	(6,518.42)	(10,668.65)	(98,277.43)	(108,069.25)
<b>Total Admin &amp; General Expenses</b>	<b>(271,642.22)</b>	<b>(264,712.95)</b>	<b>(2,302,473.49)</b>	<b>(2,302,666.12)</b>
<b>Net Income (Loss) Before Surplus</b>				
<b>Adjustments</b>	<b>\$ 141,437.69</b>	<b>\$ 340,551.97</b>	<b>\$ 2,661,792.74</b>	<b>\$ 2,629,848.89</b>
<b>Surplus Adjustments</b>				
<b>Additions</b>				
Sale of Scrap	-	-	7,028.74	24,138.15
MMWEC Refund	-	-	534,347.98	46,343.35
<b>Total Additions to Surplus</b>	<b>-</b>	<b>-</b>	<b>541,376.72</b>	<b>70,481.50</b>
<b>Subtractions</b>				
Interest on Sinking Fund	208.55	20.30	2,677.75	289.14
Payment in Lieu of Taxes	56,532.00	57,380.00	508,788.00	516,420.00
Plant Removal Costs	-	-	21,153.81	353,665.71
<b>Total Subtractions from Surplus</b>	<b>56,740.55</b>	<b>57,400.30</b>	<b>532,619.56</b>	<b>870,374.85</b>
<b>Net Income (Loss)</b>	<b>\$ 84,697.14</b>	<b>\$ 283,151.67</b>	<b>\$ 2,670,549.90</b>	<b>\$ 1,829,955.54</b>

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

	3/31/2020	3/31/2021
<b>ASSETS</b>		
Sinking Fund - Self Insurance	\$ 179,357.49	\$ 179,938.84
Consumer Deposits	95,939.57	96,678.80
<b>Total Investments</b>	<b>275,297.06</b>	<b>276,617.64</b>
Operating Cash	(14,562,414.66)	(16,089,530.90)
Consumer Deposits	189,528.02	200,505.88
Petty Cash	175.00	175.00
<b>Total Cash</b>	<b>(14,372,711.64)</b>	<b>(15,888,850.02)</b>
Accounts Receivable-Rates	1,548,696.37	1,676,018.25
Accounts Receivable-Other	133,341.36	-
Inventory	566,533.68	540,228.64
Prepayments Miscellaneous	35,046.90	34,548.51
Other Deferred Debits	433,245.83	384,709.55
<b>Total Other Assets</b>	<b>2,716,864.14</b>	<b>2,635,504.95</b>
<b>Total Current Assets</b>	<b>(11,380,550.44)</b>	<b>(12,976,727.43)</b>
Distribution Plant	23,033,532.20	24,588,977.42
General Plant	507,888.26	461,051.29
<b>Net Fixed Assets</b>	<b>23,541,420.46</b>	<b>25,050,028.71</b>
<b>Total Assets</b>	<b>\$ 12,160,870.02</b>	<b>\$ 12,073,301.28</b>
<b>LIABILITIES AND EQUITY</b>		
Accounts Payable	\$ 32,398.11	\$ 39,551.98
Consumer Deposits	285,467.59	297,184.68
Other Accrued Liabilities	3,693.22	276.95
Reserve for Uncollectable Accounts	108,563.83	218,397.21
<b>Total Current Liabilities</b>	<b>430,122.75</b>	<b>555,410.82</b>
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
<b>Total Long Term Liabilities</b>	<b>3,422,319.66</b>	<b>3,392,107.55</b>
<b>Total Liabilities</b>	<b>3,852,442.41</b>	<b>3,947,518.37</b>
Retained Earnings	(15,599,805.12)	(16,102,248.00)
Year to Date Income ( Loss )	797,570.57	282,070.40
Sinking Fund Reserve-Self Ins	179,357.49	179,938.84
Contribution in Aid of Construction	13,600.00	13,600.00
Investment in Fixed Assets	22,917,704.67	23,752,421.67
<b>Total Equity</b>	<b>8,308,427.61</b>	<b>8,125,782.91</b>
<b>Total Liabilities and Equity</b>	<b>\$ 12,160,870.02</b>	<b>\$ 12,073,301.28</b>

**Wakefield Municipal Gas and Light Department**  
**Income Statement - Gas Fund**  
**For the Eight Months Ending, March 31, 2021**

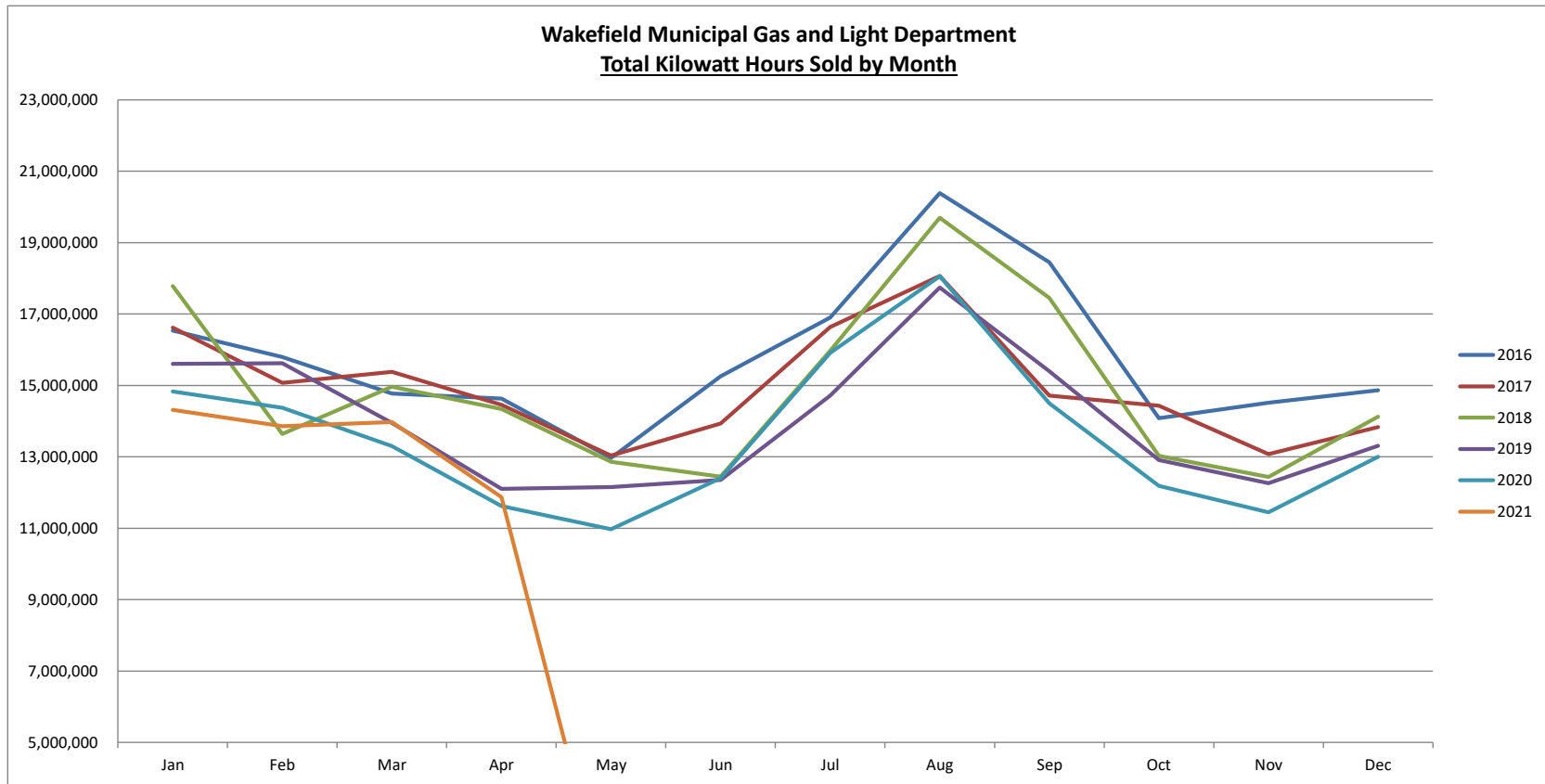
	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
<b>Energy Revenue (Net of Discounts)</b>				
Residential Sales	\$895,620.86	\$1,167,849.15	\$5,465,881.81	\$5,538,602.78
Commercial Sales	240,518.48	373,668.60	1,630,941.85	1,675,334.19
Municipal Sales	76,863.58	124,907.14	568,263.70	620,681.29
<b>Total Energy Revenue</b>	<b>1,213,002.92</b>	<b>1,666,424.89</b>	<b>7,665,087.36</b>	<b>7,834,618.26</b>
<b>Other Revenues</b>				
Unbilled Revenue	-	-	-	-
Interest Income-Consumer Deposits	100.74	45.44	1,185.81	488.26
Interest Income-Self Ins Sinking Fund	208.55	20.31	2,677.75	289.13
Income from Merchandise & Jobbing	481,503.33	(2,207.25)	283,689.38	37,802.74
Special Gas Charges	-	375.90	4,065.02	3,321.70
Sales Tax	11,600.70	17,867.03	77,028.02	80,433.78
Reconnect Fees	-	-	50.00	50.00
Insurance Reimbursements	-	-	-	-
Other Gas Revenue	373.34	(26.27)	20,156.45	7,995.24
<b>Total Other Revenue</b>	<b>493,786.66</b>	<b>16,075.16</b>	<b>388,852.43</b>	<b>130,380.85</b>
<b>Total Revenue</b>	<b>1,706,789.58</b>	<b>1,682,500.05</b>	<b>8,053,939.79</b>	<b>7,964,999.11</b>
<b>Gas Purchased</b>	<b>(639,036.03)</b>	<b>(715,474.33)</b>	<b>(4,168,188.49)</b>	<b>(4,194,023.06)</b>
<b>Gross Profit</b>	<b>\$ 1,067,753.55</b>	<b>\$ 967,025.72</b>	<b>\$ 3,885,751.30</b>	<b>\$ 3,770,976.05</b>
<b>Operating Expenses</b>				
<b>Miscellaneous Operating Expenses</b>				
Depreciation Expense	(156,760.47)	(163,872.56)	(1,161,299.33)	(1,432,180.12)
Sales Tax	(11,460.33)	(17,867.03)	(76,887.65)	(80,433.78)
Interest Expense-Consumer Deposits	(495.24)	(94.06)	(6,609.21)	(3,299.18)
Interest Expense-MMWEC	-	-	(2,925.80)	-
<b>Total Misc Operating Expenses</b>	<b>(168,716.04)</b>	<b>(181,833.65)</b>	<b>(1,247,721.99)</b>	<b>(1,515,913.08)</b>
<b>Distribution Expenses</b>				
Operations Supervision and Engineering	(21,532.55)	(18,268.66)	(139,200.50)	(156,856.34)
Station Labor and Expenses	(20,063.36)	(14,656.52)	(156,311.78)	(136,677.36)
Mains and Service	(9,056.38)	3,668.77	(47,894.71)	(45,569.59)
Customer Installation Expenses	(14,765.93)	(11,608.61)	(153,018.10)	(95,901.84)
Miscellaneous Plant Expenses	(5,322.95)	(4,346.09)	(82,639.18)	(66,480.25)
<b>Total Distribution Expenses</b>	<b>(70,741.17)</b>	<b>(45,211.11)</b>	<b>(579,064.27)</b>	<b>(501,485.38)</b>
<b>Maintenance Expenses</b>				
Maintenance of Mains	(26,170.99)	(31,169.03)	(216,623.64)	(254,180.96)
Maintenance of Meters and House Regulators	(3,470.00)	(2,500.00)	(14,189.40)	(10,487.87)
Maintenance of Other Equipment	(2,378.81)	(1,315.63)	(15,210.41)	(24,268.80)
<b>Total Maintenance Expenses</b>	<b>(32,019.80)</b>	<b>(34,984.66)</b>	<b>(246,023.45)</b>	<b>(288,937.63)</b>
<b>Customer Account Expense</b>				
Meter Reading Expense	(1,138.46)	(1,245.24)	(10,705.98)	(19,167.48)
Customer Record and Collection Expenses	(23,951.33)	(19,904.30)	(201,512.99)	(191,690.84)
<b>Total Customer Account Expenses</b>	<b>(25,089.79)</b>	<b>(21,149.54)</b>	<b>(212,218.97)</b>	<b>(210,858.32)</b>

**Wakefield Municipal Gas and Light Department**  
**Income Statement - Gas Fund**  
**For the Eight Months Ending, March 31, 2021**

	CURRENT MONTH		YEAR TO DATE	
	FY 2020	FY 2021	FY 2020	FY 2021
<b>Administrative and General Expenses</b>				
Advertising	-	-	(2,451.11)	(5,524.56)
Administrative Salaries and Expense	(5,016.18)	(8,529.80)	(63,241.23)	(52,805.88)
Business Mgr and Accting Salaries and Exp	(5,521.95)	(5,301.37)	(34,672.18)	(46,955.79)
MIS Salaries and Expense	(3,522.89)	(3,482.98)	(67,335.37)	(44,272.76)
Outside Services	(1,625.00)	-	(18,533.55)	(11,087.50)
Property Insurance	(300.67)	(329.08)	(2,705.99)	(2,961.76)
Injuries and Damages	(1,517.89)	(1,746.36)	(11,062.36)	(11,573.80)
Employee Pensions and Benefits	(35,267.59)	(37,035.09)	(324,449.61)	(357,600.82)
Miscellaneous General Expenses	(6,518.32)	78.42	(27,805.34)	(39,190.96)
Maintenance of General Plant	(1,156.50)	(1,716.25)	(33,091.33)	(20,403.66)
<b>Total Admin &amp; General Expenses</b>	<b>(60,446.99)</b>	<b>(58,062.51)</b>	<b>(585,348.07)</b>	<b>(592,377.49)</b>
<b>Net Income (Loss) Before Surplus</b>				
<b>Adjustments</b>	<b>\$710,739.76</b>	<b>\$625,784.25</b>	<b>\$1,015,374.55</b>	<b>\$661,404.15</b>
<b>Surplus Adjustments</b>				
<b>Additions</b>	-	-	-	-
<b>Subtractions</b>				
Interest on sinking fund investment	208.55	20.31	2,677.75	289.13
Payment in Lieu of Taxes	18,844.00	19,126.67	169,596.00	172,139.99
Plant Removal Costs	-	-	45,530.23	206,904.63
<b>Total Subtractions from Surplus</b>	<b>19,052.55</b>	<b>19,146.98</b>	<b>217,803.98</b>	<b>379,333.75</b>
<b>Net Income (Loss)</b>	<b>\$691,687.21</b>	<b>\$606,637.27</b>	<b>\$797,570.57</b>	<b>\$282,070.40</b>

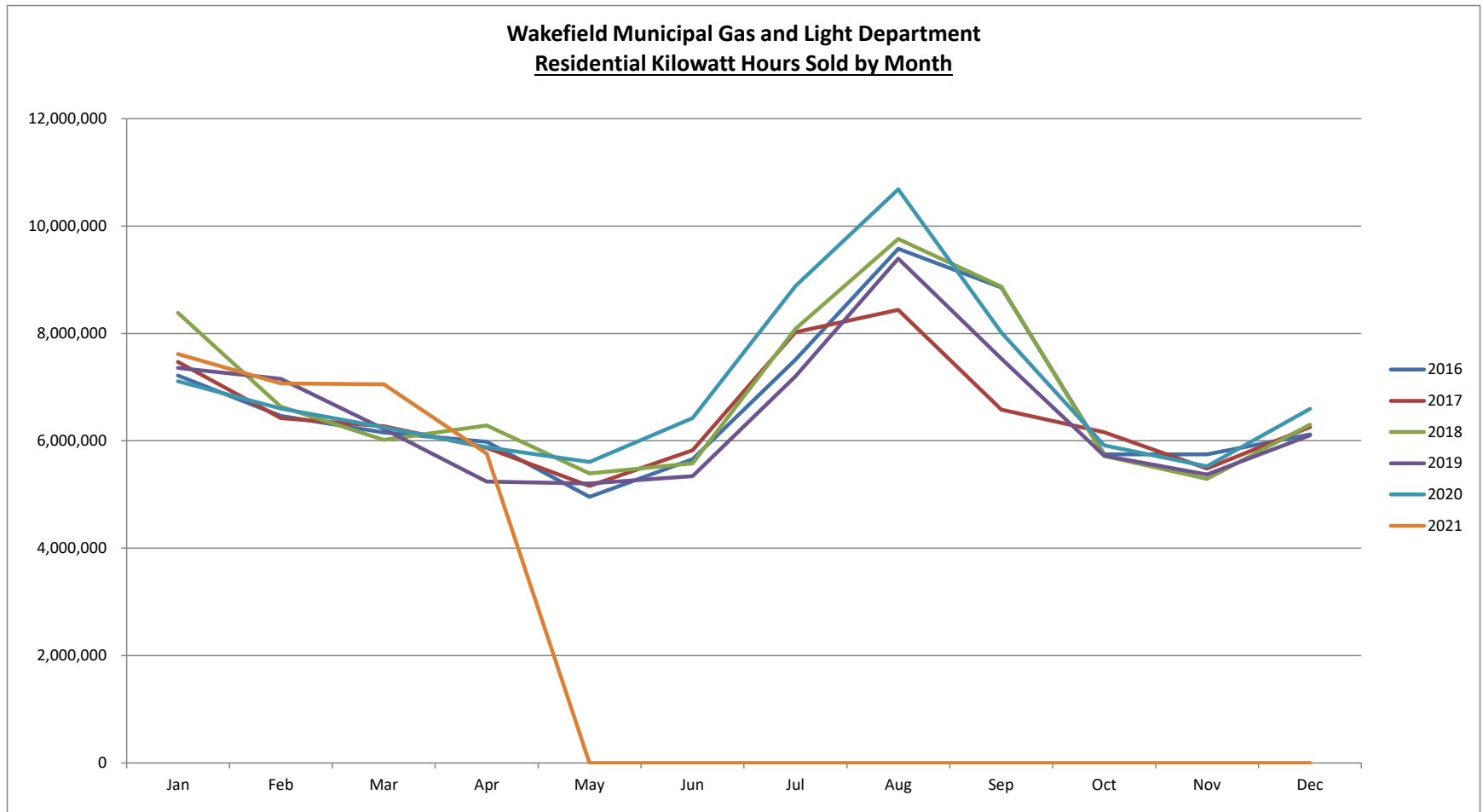
**Wakefield Municipal Gas and Light Department**  
**Total Kilowatt Hours Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	67,978,455	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	61,738,960	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	61,525,528	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	60,730,672	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	57,272,914	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	54,121,839	162,605,090
2021	14,315,035	13,860,939	13,975,661	11,872,008	0	0	0	0	0	0	0	0	54,023,643	54,023,643



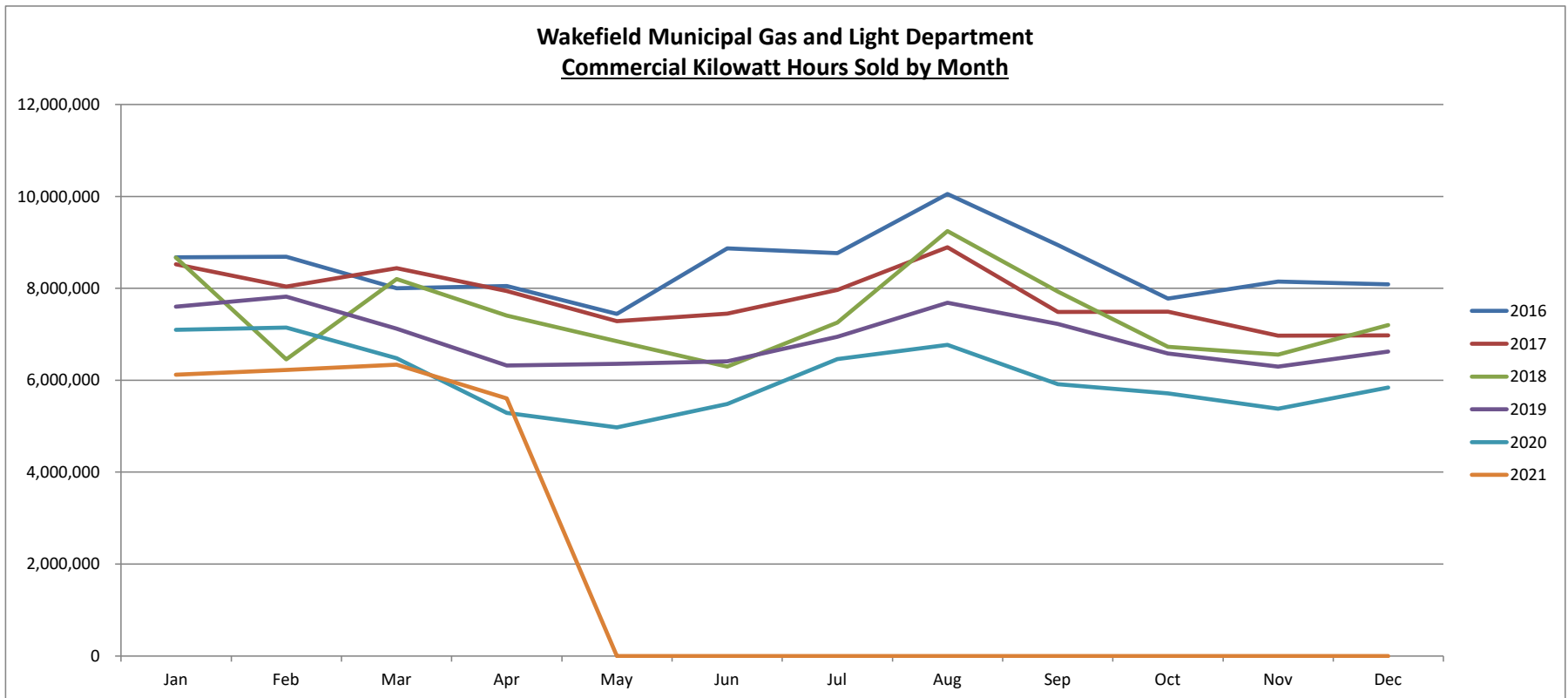
**Wakefield Municipal Gas and Light Department**  
**Residential Kilowatt Hours Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	28,856,660	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	25,811,166	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	26,030,690	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	27,322,925	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	25,972,230	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	25,837,784	83,486,633
2021	7,615,309	7,068,224	7,051,410	5,762,053	0	0	0	0	0	0	0	0	27,496,996	27,496,996



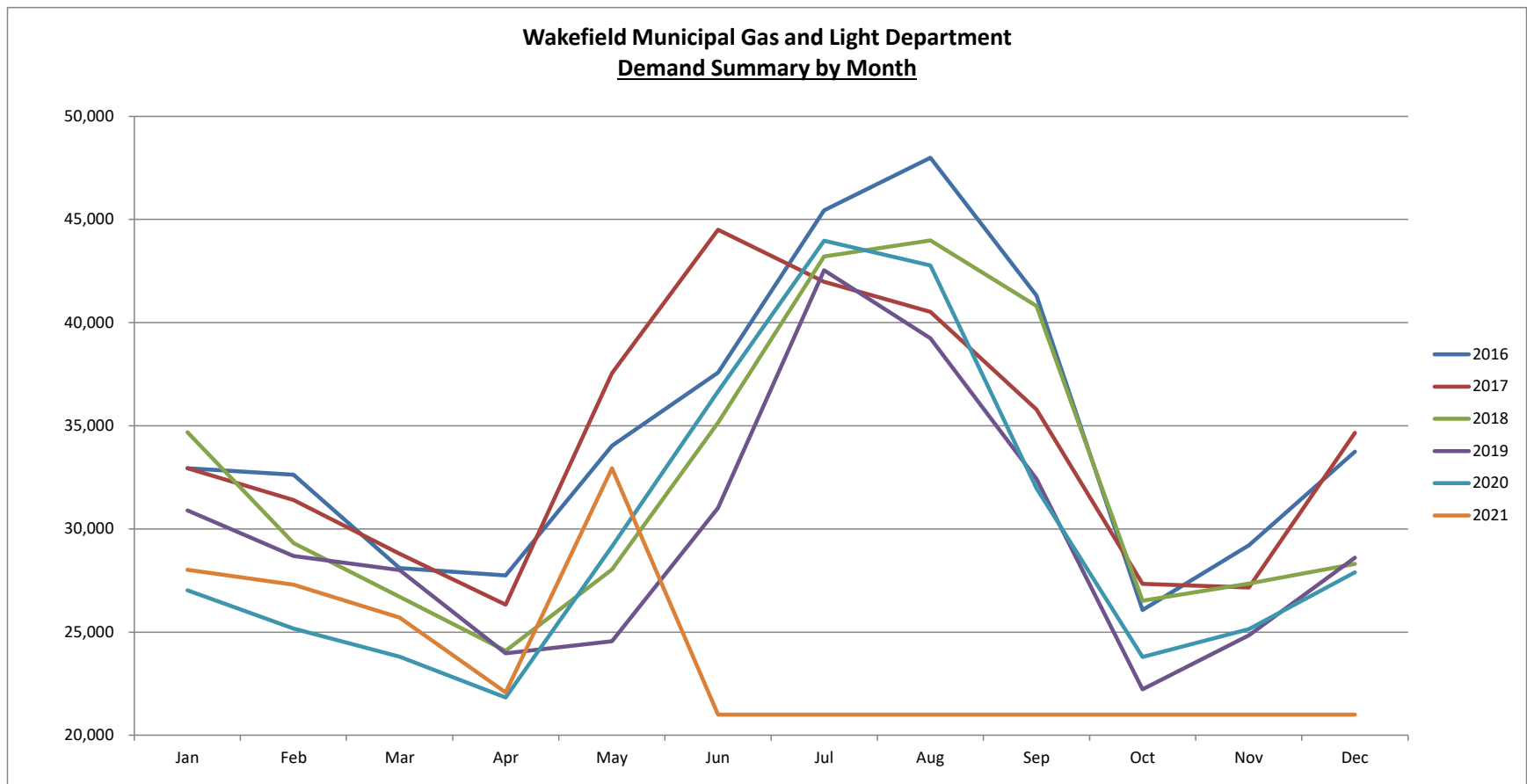
**Wakefield Municipal Gas and Light Department  
Commercial Kilowatt Hours Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	36,871,683	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	33,413,874	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	32,944,502	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	30,737,677	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	28,863,016	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	26,012,575	72,548,584
2021	6,120,226	6,226,617	6,338,424	5,603,335	0	0	0	0	0	0	0	0	24,288,602	24,288,602



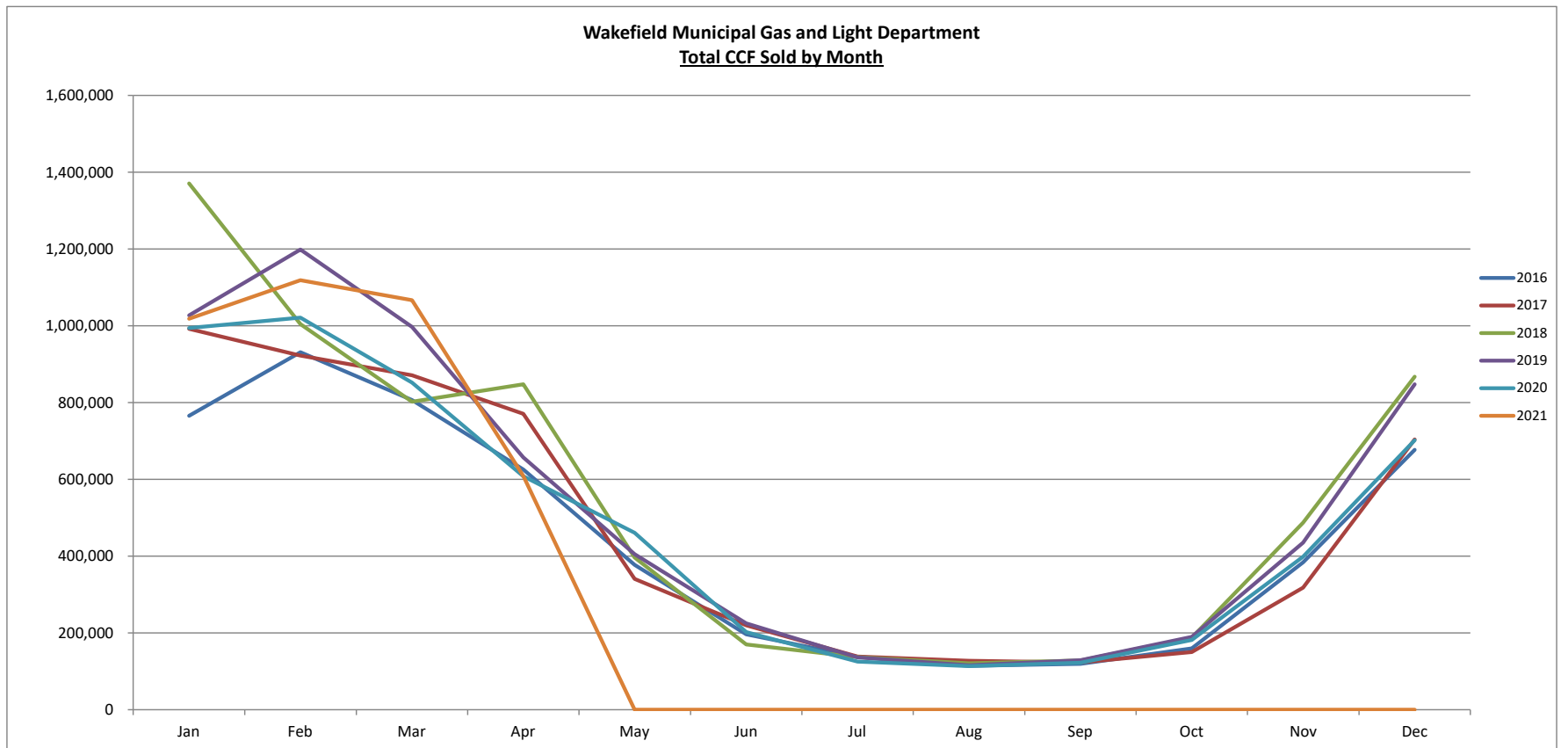
**Wakefield Municipal Gas and Light Department  
Demand Summary by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	21,000	21,000	21,000	21,000	21,000	21,000	21,000	81,027	283,046



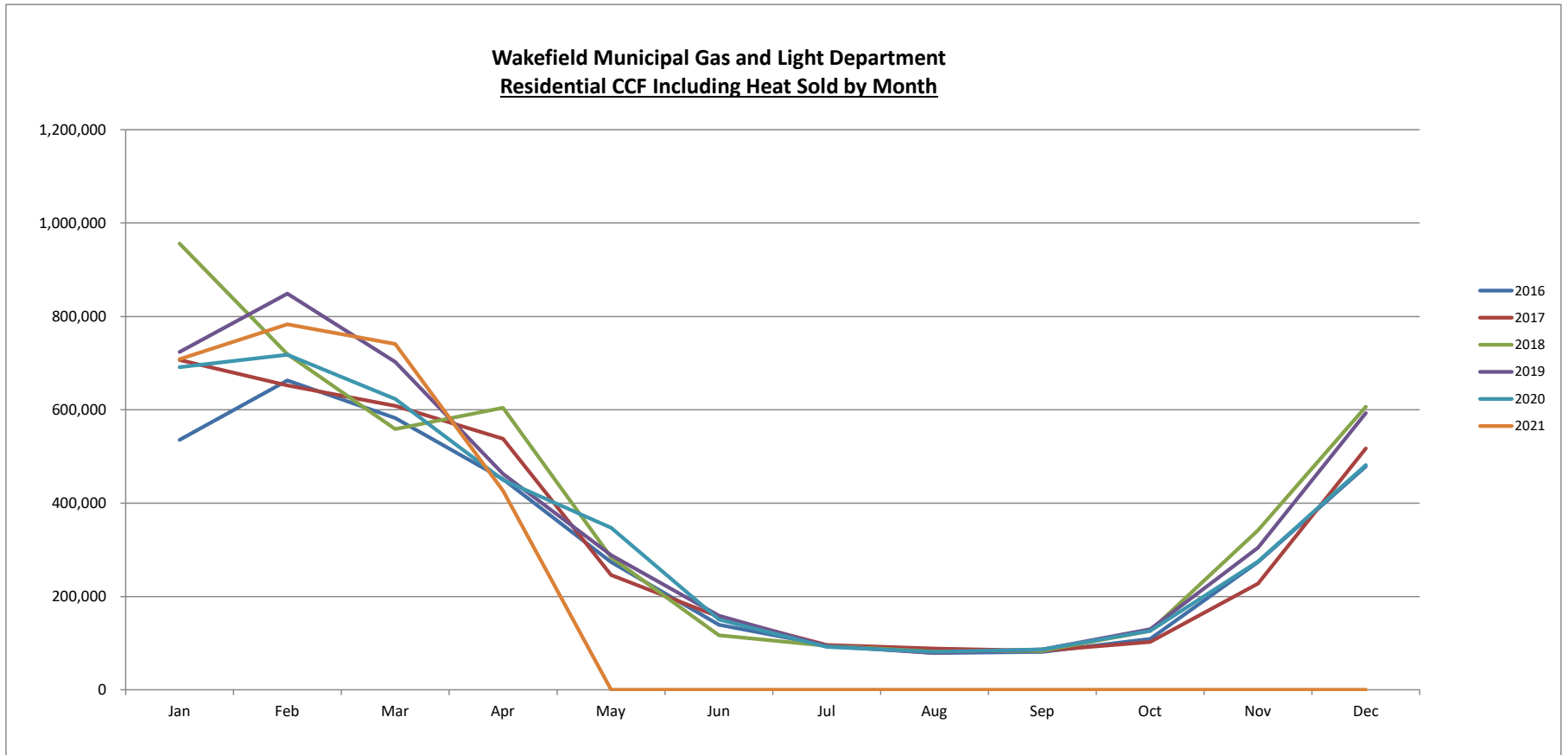
**Wakefield Municipal Gas and Light Department  
Total CCF Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	4,195,052	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	3,128,992	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	3,556,223	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	4,025,335	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	3,881,160	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	3,476,101	5,783,876
2021	1,018,323	1,118,751	1,067,083	609,268	0	0	0	0	0	0	0	0	3,813,425	3,813,425



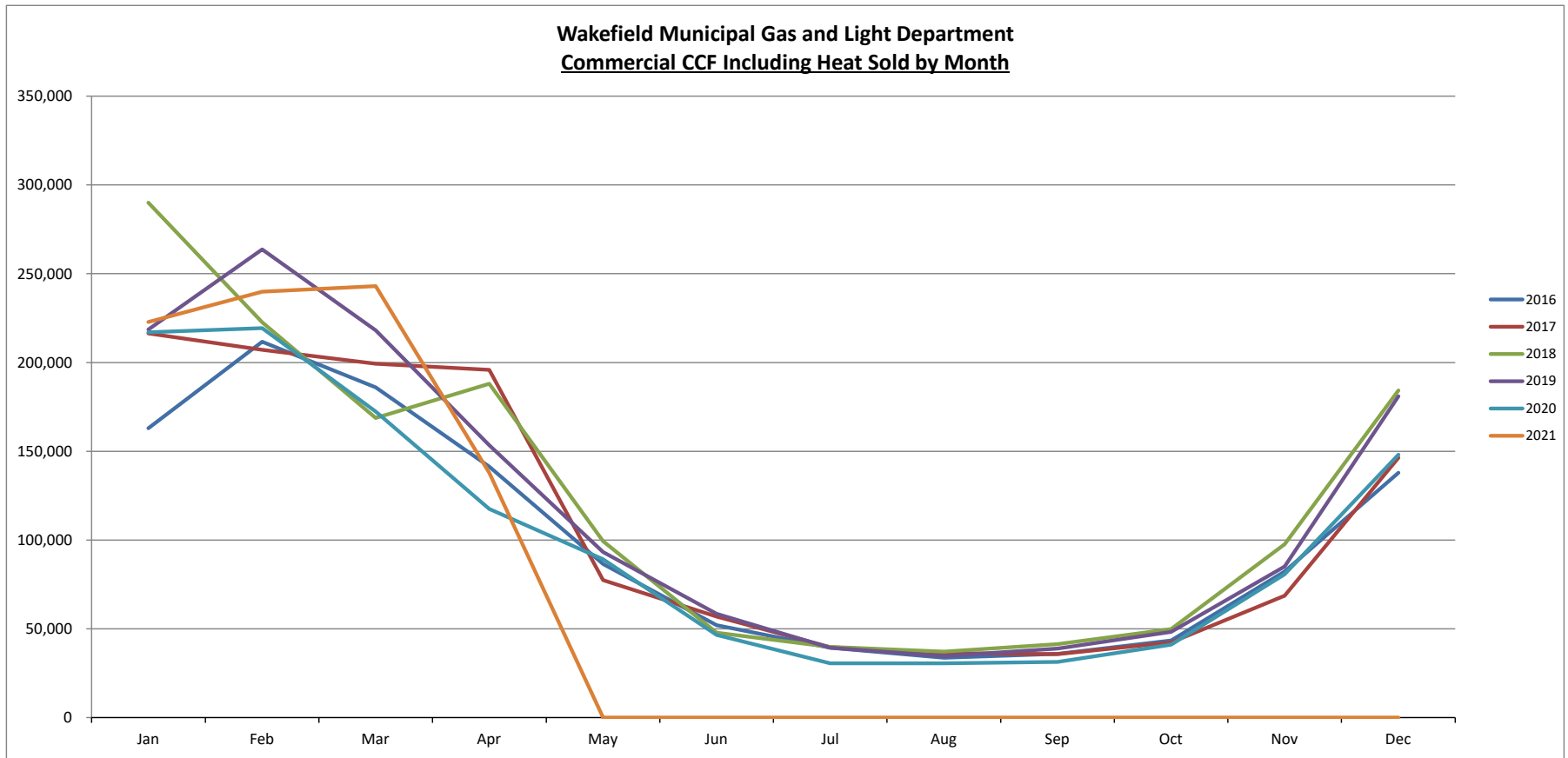
**Wakefield Municipal Gas and Light Department  
Residential CCF Including Heat Sold by Month**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date Thru Apr	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	2,963,221	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	2,232,351	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	2,505,464	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	2,838,608	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	2,738,498	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	2,483,290	4,125,000
2021	708,777	783,101	741,456	426,617	0	0	0	0	0	0	0	0	2,659,951	2,659,951



**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 Apr	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	932,253	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	702,248	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	818,950	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	869,575	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	853,822	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	726,538	1,224,842
2021	222,839	240,034	243,002	138,014	0	0	0	0	0	0	0	0	843,889	843,889





## MMWEC STATEMENT ON PROJECT 2015A

Ludlow, MA -- At a special meeting held yesterday, the Massachusetts Municipal Wholesale Electric Company's (MMWEC's) board of directors voted to authorize a pause of MMWEC's plans for the siting of a new capacity resource in Peabody, called Project 2015A. The board authorized a 30-day minimum pause to address the concerns brought to the MMWEC Board, while also considering available options to fulfill its participants' required capacity obligations under ISO New England rules. The project has been under development and public review for more than three years and has secured state permits, making this is an unusual step.

"MMWEC is a proven leader in carbon-free technology, and we are proud that our members' power portfolios have some of the highest percentages of renewable energy and the lowest carbon emissions in the Commonwealth," said Ron DeCurzio, CEO of MMWEC. "In fact, most of the Project 2015A participating municipal light plants have already exceeded the Baker Administration's 2030 carbon reduction targets. We plan to continue that leadership in the next phase of energy development. Can we find a way to develop a needed capacity resource that isn't fossil fuel-fired but still reliable in times of need? It is worth taking another look at whether advancements in technology make a different approach possible today."

DeCurzio noted that much has changed in technology since the project was first proposed more than five years ago making the need for reassessment even more necessary.

"We are thankful for the significant input we have received from interested stakeholders, including the elected and appointed leaders of the Commonwealth and from municipal officials," DeCurzio continued. "We share the zeal expressed by many members of the public for embracing new technologies. Driving toward the best carbon-free technology, while making sure it meets reliability and affordability standards for our communities – that is in our DNA."

Over the course of the next 30 days, MMWEC will meet with and seek input from stakeholders, including regulators, other Commonwealth officials, the participating communities and the larger community to consider alternatives and assess their feasibility. The board will regroup to discuss findings at the end of the review period.

### **Project 2015A Background**

As proposed, Project 2015A is a 55-megawatt capacity plant to provide necessary capacity for 14 nearby cities and towns during periods of peak electricity demand. Because it will be among the newest and most efficient resources, it will produce fewer emissions than 94 percent of the fossil fuel plants in New England. Without this resource, local utilities that are required to have capacity will continue to rely on older, less efficient energy power plants through the ISO-New England markets. Thus, this resource will displace carbon that would otherwise be produced by higher-polluting plants, resulting in a net reduction in carbon emissions.

Although MMWEC has fulfilled all the required public notices and applications for the project and followed the same procedure it did for advancing other developments, including Project 2020A - a proposed seven-megawatt solar farm to be built on MMWEC's site in Ludlow - the board determined it would be prudent to evaluate all of the concerns recently expressed about the project.

Information about Project 2015A can be found at [www.project2015A.org](http://www.project2015A.org).

###

# Cyber Security



WMMGLD

WAKEFIELD MUNICIPAL GAS AND LIGHT DEPARTMENT

# WMGLD Cyber Asset Protection – Brief Review/update

- Famous Quote:

- *There are two types of companies. Those that have been hacked. And those that don't know that they've been hacked.*
  - (Cisco CEO, John Chambers)

- Not-so-famous Quote:

- *Every company is one really smart hacker away, or one really careless worker away, from being compromised.*
  - (By the not-so-famous Jeff Morris)

# Making it a Glancing Blow

- It's clear that no company is beyond being compromised
  - Colonial Gas is just the latest large company to take a punch
  - Linked-In – April 2021
  - Facebook – April 2021
  - Marriott – March 2020
  - Many, many others

\*\*\*IT always operates under the assumption that, despite great efforts to avoid it, something could happen to compromise cyber assets. We could take a punch.\*\*\*

- Utilizing a multi-tiered approach to make it a glancing blow
  - Relying on “outside eyes” for their expertise
  - Back-ups, back-ups, and more backups
  - Education/awareness
  - Multiple layers of protection
  - Recovering from an attack



# Making it a Glancing Blow

## • Outside Eyes

- WMGLD has relationships with multiple organizations to help spot potential problems

- Utility Services
- MMWEC
- E-ISAC
- Vendors responsible for overseeing specific areas of infrastructure
- Also work in conjunction with the Town's IT Department



# Making it a Glancing Blow

- **Backups...and more backups!**

- Companies only pay ransomware, or only lose critical data, because they don't have viable backups
  - WMGLD performs incremental backs up servers throughout the day
  - Backup snapshots are taken of each server every night and stored in multiple locations in Town
  - Recently added Azure Backup to ensure a nightly, “untouchable” backup of each server is stored somewhere outside of Town

WAKEFIELD MUNICIPAL GAS AND LIGHT DEPARTMENT

# Making it a Glancing Blow

- **Education and Awareness**

- The vast majority of attacks are by “invitation”
  - Opening bad emails or attachments
  - Falling for “click-bait”
  - Leaving sticky-notes with credentials laying around
- Revamping our security campaign
  - Annual cyber-security class for entire company
  - Testing users with fake spam emails to ensure awareness
  - Eblasts to educate users on a new threat, or latest method of attack

# Making it a Glancing Blow

- **Multiple Layers of Protection**

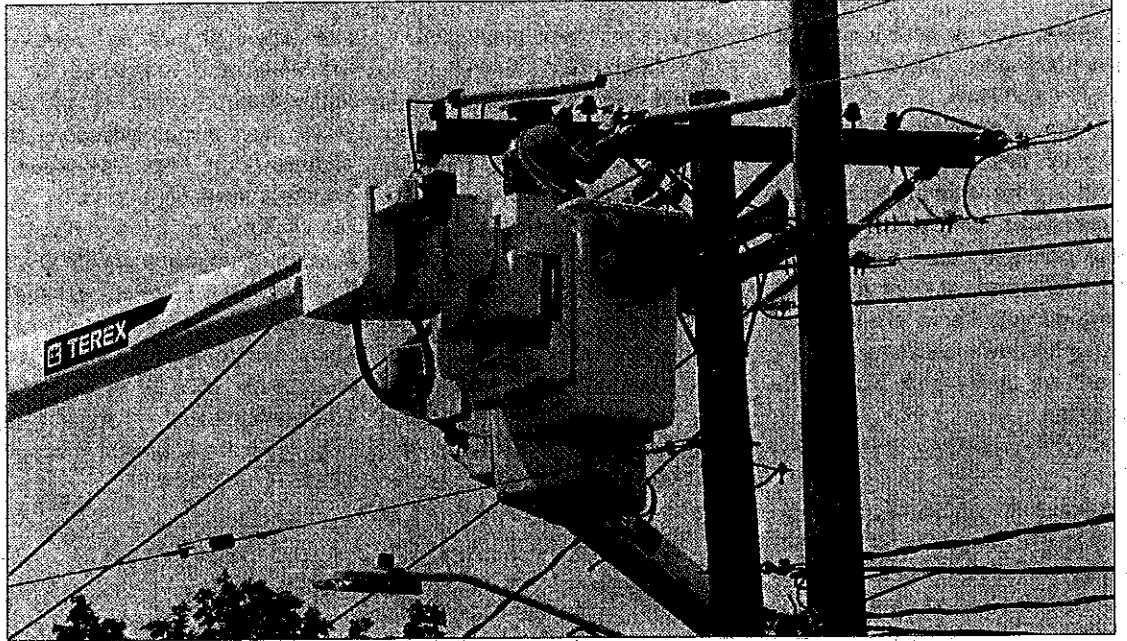
- Separate Corporate and Scada networks
- Anti-malware/virus/exploit
- Firewalls only allowing necessary traffic
- Intrusion detection/intrusion protection Systems
- Spam filters
- Adding new layer with a Threat Intelligence Gateway
  - Blocks all known bad Ips and Ips associated with them
  - Blocks all traffic from entire countries
  - Blocks outgoing traffic TO bad Ips
  - Updates every 5-minutes

# Making it a Glancing Blow

## • Recovering from an Attack

- All servers are incrementally backed up throughout the day
    - If we lose a server, we will be able to restore to four hours prior, at most
  - All servers are backed up completely as snapshots every night
    - If we lose a server, and the incremental backups were impacted, we will restore to the night before
  - All servers are backed up completely as snapshots off-site via Azure Backup
    - If we lose a server, and the local snapshot is impacted, we will restore to the night before using the air-gapped backup
- These mechanisms protect, not only against cyber attacks, but also system or mechanical failure, should one occur

## ***High wire act***



**LIGHT DEPARTMENT** crews use bucket trucks to tend to lines at West Water and Foster streets.  
(Mark Sardella Photo)