

BURLINGTON
BOARD OF ELECTRIC COMMISSIONERS
585 Pine Street
Burlington, Vermont 05401

GABRIELLE STEBBINS, CHAIR
SCOTT MOODY, VICE CHAIR
JIM CHAGNON
ROBERT HERENDEEN
BETHANY WHITAKER

To be held at Burlington Electric Department (or)
Via Microsoft Teams

[+1 802-489-6254](tel:+18024896254)

Conference ID: 361 667 284#

AGENDA
Regular Meeting of the Board of Electric Commissioners
Wednesday, July 14, 2021- 5:30 p.m.

- | | |
|--|----------------|
| 1. Election of Officers | 5:30 (5 min.) |
| 2. Agenda | 5:35 (5 min.) |
| 3. Minutes of the June 9, 2021 Meeting | 5:40 (5 min.) |
| 4. Public Forum | 5:45 (5 min.) |
| 5. Commissioners' Corner (Discussion) | 5:50 (5 min.) |
| 6. GM Update (Oral Update)
Financials: May FY21 | 5:55 (15min.) |
| 7. 2021-22 Strategic Direction (Discussion and Vote) D. Springer | 6:10 (15 min.) |
| 8. Commissioners' Check-In | 6:25 (5 min.) |

Attest:



Laurie Lemieux, Board Clerk

If anyone from the public wishes to speak during the public forum portion of the Commission Meeting and/or wishes to be present for the Meeting of the Board of Electric Commission via Microsoft Teams, please email llemieux@burlingtonelectric.com to receive a link to the meeting, or call (802) 489-6254, Conference ID: 361 667 284#

Note: Members of the public may speak during the Public Forum, or when recognized by the Chair during consideration of a specific agenda item.

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(for 07/14/21 meeting)

***** FYI *****

- Minutes of the June 9, 2021 Meeting
- June Monthly Report
- Dashboard
- FY21 May Financials
- 2021–22 Strategic Direction

Note: Members of the public may speak during the Public Forum, or when recognized by the Chair during consideration of a specific agenda item.



MEMORANDUM

To: Burlington Board of Electric Commissioners
From: Darren Springer, General Manager
Date: July 8, 2021
Subject: **June 2021 Highlights of Department Activities**

General Manager

- **Remote Work Pilot Program** – Effective July 6th, BED offices are reopened for customers and all employees, and a new Remote Work Pilot Program is operational, allowing for remote work options for employees where applicable. During the Pilot, we'll evaluate different approaches to a hybrid office/remote work set-up, giving each division flexibility to design rotations and schedules that meet their needs. We'll document through employee surveys reduction in vehicle miles traveled and seek to lead by example given how important reduced driving was to our 2020 NZE Roadmap update results.
- **New Renewable Primary Heating System Ordinance** – On July 8th Mayor Weinberger signed a new ordinance that will require new construction projects to include a primary heating system that is renewable, designed to meet at least 85% of the building's heating needs. Many renewable heating options would qualify, including heat pumps, geothermal, advanced wood heating, biodiesel, renewable gas, and district heating. This proposal was part of an effort from BED and Department of Permitting and Inspections to advance policy that is implementable now, while the broader Charter Change effort will resume next year in the Legislature. There is an exemption available for the ordinance if a building developer believes complying would be a hardship, but it will involve comparing the least expensive renewable option (including incentives) compared to a conventional option (including a \$100 per ton carbon price) over a 25-year period for capital and operating.
- **Rate Case Filed** – The rate case was filed with the PUC, and the surcharge will appear on bills in August as planned. We anticipate the process will continue at the PUC throughout the remainder of 2021. July bills will include an insert letter from me explaining why we are pursuing a rate case, and an important message on the bill itself. We've created a web landing page for the rate case and for customers to sign up for the energy assistance program - <https://www.burlingtonelectric.com/rates/>.
- **District Energy** – Intensive discussions continue on multiple fronts with district energy, including with the McNeil Joint Owners on a weekly basis. Ever-Green continues operational work with UVMCMC, and VGS and BED are engaged on regulatory discussions. We had good news that in response to our application, Senator Leahy has submitted a request for Congressionally directed funding to support district energy in Burlington as part of his requests for the Energy & Water Appropriations legislation. This is the first step in a legislative process, but if ultimately successful

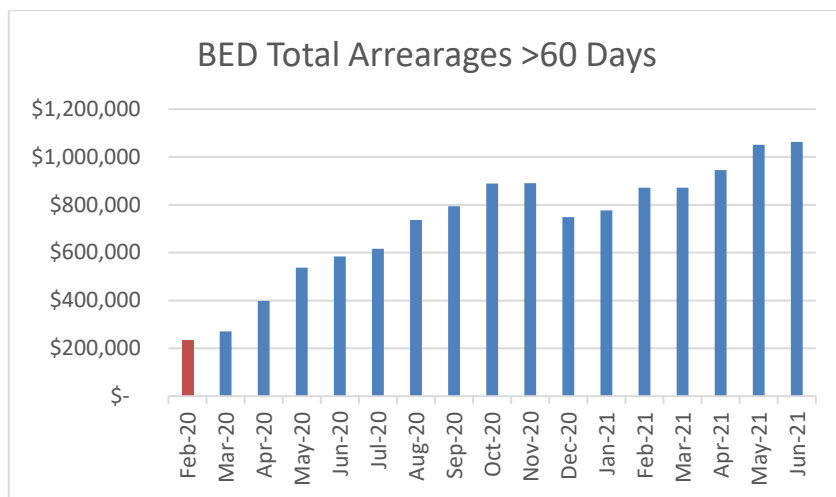
this funding would be critical in helping to make the project even more economical and support the inclusion of an electric boiler to run at certain times when McNeil is offline, providing additional carbon reduction and fossil fuel reduction from the project.

Center for Innovation - Emily Stebbins-Wheelock

- Accepted resignation of Sue Fritz as Director of Information Technology effective 6 August 2021.
- Acting supervisor of Finance & Accounting and Billing & Analytics staff.
- Overseeing 2021 rate case development.
- Continued sponsorship of IT Forward implementations.
- Concluded service as 2021 DeltaClima cohort mentor.
- Sponsoring internal team reviewing rebate process for efficiencies and effectiveness.
- Reviewing feedback from Leadership Team on proposed performance review form and rollout plan.
- Liaison with DPS on State of Vermont COVID19 arrearage assistance program.
- Facilitating a white accountability group for City employees sponsored by the Racial Equity, Inclusion and Belonging (REIB) Office.

Finance & Accounting

- Monitoring receivables in response to COVID19: as of June 30, 2021, BED's total non-current receivables had decreased \$57,399 or 4% compared to the end of May 2021. Arrearages >60 days were \$1,062,658.



- FY22 budget approved by City Council on June 28, 2021.
- Finalized 2021 rate case cost of service model, including known & measurable changes and model cash flows and debt coverage ratios.
- Exploring long-term capital financing options; including preparation for potential fall revenue bond filing.
- Annual account review with TD Bank.
- Planning for FY22 opening, FY21 year-end, and FY21 audit.
- Supported external auditors in conducting annual inventory count virtually.

Billing & Analytics

- Bi-weekly tracking of daily kWh sales by rate class to monitor impacts of COVID-19, with bi-weekly update to Vermont state economists and DPS. Continuing to modify the hourly and monthly load forecasting models to account for the changing impacts of COVID-19.
- Testing implementation of 2021 rate case tariff adjustment and temporary energy assistance program in billing system.
- Developed and tested changes to the EEC rate calculations for the net-metering accounts that was effective July 1, 2021.
- Reviewing leased light charges to confirm the rates have been properly applied to customer accounts.
- As functional lead, reviewing OpenWay SR 7.0 upgrade and planning for meter firmware update in test environment.
- Functional lead for MDMS replacement and team member on Customer Portal replacement projects, with work on data integrations, data migration, continued discovery sessions, and data cleanup.
- Supported Engineering on major interval data request from ISO New England and VELCO.
- Completed a new Itron Product Specification Request for new Class 320 Form 2S meter.
- Received 2 new net-metering applications (11 KW capacity); processed 3 new solar installation for billing (20.35 KW capacity).
- Made changes to the VEIC Sun Shares net-metering group (two group members moved to new addresses on 6/1 and 6/6). Monitoring group allocations for the two Hula Group Net-Metering systems.
- Troubleshooting CIS billing route download issue.
- Completed Pole Attachment billing.

Information Services

- Continued work on Data Center installation at VELCO.
- Continued work on Lake St. disaster recovery data center cleanup and reconfiguration.
- Continued work on setup for OpenWay 7 test system.
- VPN configuration with SmartWorks MDMS data centers.
- Continued work on initial data extracts for CIS daily syncs and MDMS data conversion.
- Intune/ABM pilot of iPads underway.
- Initial research for Enterprise GIS infrastructure and new Outage Map.

Policy and Planning

- 7.5% rate increase filed with PUC.
- EV rate amendments approved by PUC.
- New EEC rate for net metering customers without generation meter approved by PUC.
- Filed Proposal for Decision in Act 151/DRP docket.
- Submitted testimony in Global Foundries docket.
- Case 21- 1500 continuing – Overall Performance Assessment of Vermont's EEU's.
- Case 21- 1616 continuing – DPS petition relative to EEC and TEPF Carryover funds.

- Defeat the Peak 2021 events on June 29 & 30 set record reduction at YtD ISO-NE peak hour. Passive devices activated on June 28 at time of June transmission peak.
- UNH Sustainability Fellow (Kameice Francis) started.
- Participated in MDMS replacement discovery meetings.
- Continued District Energy System (DES) discussions.
- Preparation for potential fall revenue bond filing.
- Review Operating Guidelines for potential changes (with Engineering).
- Airport expansion discussions with GMP.
- Selected DeltaClimateVT 2021 pilot projects.
- Permitting for Solar Test Center at McNeil beginning.

Sustainability & Workforce Development

- Continued management of CEDO Ventilation Improvement Program (VIP), including the advancement of ventilation work in four non-profits.
- Attended CATMA's spring Employee Transportation Committee event, with discussion of emerging member remote work policies; facilitated CATMA presentation on all-staff call re: alternate transportation options considering BED's remote work pilot.
- Served as a panelist at the Forth Roadmap Conference presentation, "How to Fast-Track Charging at Multi-Unit Dwellings" featuring the USDN "EV Charging for Renters" Guide.
- Attended UNH Sustainability Institute orientation in preparation for the start of Sustainability Fellow Kameice Francis's work on a guide for rental property owners on EV infrastructure installation.
- Participated in monthly Burlington 2030 District executive and steering committee meetings.
- As an Old Spokes Home board member, joined staff and other board members on a social justice committee dedicated to integrating social justice into the non-profit's strategic plan. Participated in two of three meetings facilitated by outside consultant RAHOK.
- Organized and facilitated a meeting between Fremont, CA, and Burlington's DPW staff on Fremont's fleet transition to EVs, including lessons on the deployment of Tesla EVs in the Fremont PD.
- In conjunction with BED's Energy Services and Communications teams, created and launched an e-bike charging map to facilitate e-bike ridership through the identification of downtown charging spots.
- Continued work with the Building Electrification Institute on creation of online heat pump analysis tool for BED customers.
- Coordinated and facilitated "listening session" with three weatherization/heat pump contractors and one bike shop as part of CEDO and BED's "workforce development" working group to better understand the current workforce challenges and leverage points that will help advance Net Zero Energy.
- Joined EAN-inspired "Weatherization at Scale" workforce development subcommittee, including a review of the survey and outreach plan to garner information from contractors and weatherization specialists on training and curriculum development to meet the decarbonization goals of the state.
- In collaboration with IS team, advanced Energy Star Portfolio Manager (ESPM) auto-upload feature, which allows facilities managers and property owners to seamlessly track usage over time and make informed financial and technological decisions around energy use.

Center for Safety and Risk Management – Paul Alexander

Safety

- Completed on-line 3-hour OSHA 1910.269 Transmission & Distribution class.
- Completed CPR/ First Aid recertification of McNeil employees.
- Conducted Tailboard/Pre-job Safety briefing training for McNeil and Pine Street Employees.
- Conducted Train Trestle review of procedures and specific hazards with McNeil employees.
- Conducted extensive safety review of McNeil Train Trestle to include railcar door opening, trestle platform safety, electrical & pneumatic hazards.
- Completed the installation of additional safety bars on McNeil Train Trestle for enhanced fall protection.

Environmental

- Supervised clean-up activities with a hydraulic oil failure in the wood yard.
- Reviewed the phosphorous optimization plan with the state of Vermont.
- Updated the McNeil SPCC/SWPPP inspection procedures and conducted a facility inspection.
- Completed a regeneration for the McNeil demineralization system.

Risk Management

- Claims Investigations 2 total (1 Power Outage, 1 Property).
- Continued research, effort, planning and correspondence on Coronavirus (COVID -19), Return to work plans, Health Officers, City Face mask policy, new signage, etc.
- Investigate on-site tenters with BPD/City attorney.
- Complete NERC's ALIGN survey.
- Continued discussion re: AIG insurance recs with Operations/Engineering/Agent
- Create Releases of liability for used Poles regs as well as 3rd party parking event in the fall.
- Met CUSP CE required credits for this 2-yr period.
- Update and forward to agent (H&B) our annual Property TIV's
- Work with Remote Work Policy Subcommittee
- Work with City on prior WC claim
- Attend Delta climb NZE presentations

Purchasing/General Services

- Worked with my group on a plan for the trial remote work from home program.
- Continue to take down posters on poles and at the end of the month noticing an uptick now that restrictions are lifted, and bars are open.
- Worked with the auditors on our end of year counting at McNeil and Pine Street. Counts went very well and measures and protocols we put in last year are working.
- Worked on closing out the year for inventory and purchasing.

Center for Operations & Reliability – Munir Kasti

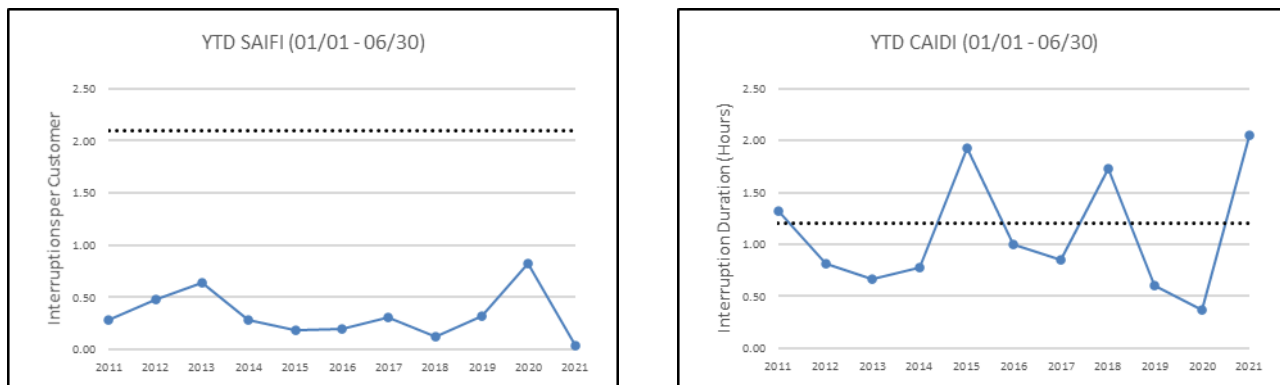
Engineering and Operations

- Replaced a transformer at Grey Meadow due to increase in customer load.
- Installed new secondary conductors for the BETA project at the Airport.
- Replaced a leaking transformer at Leonard Street.
- Assisted Parks Department in transferring ownership of lights at North Beach.
- Assisted contractor with installation of new secondary conductors for the UVM Athletic facility project.
- Implemented new protection settings on the existing underground switch at Pearl and Church Streets in preparation for new switch being installed at South Prospect & Pearl Streets.
- Wired, tested, installed, and commissioned the new underground switches at Church and Cherry Streets.
- Wired, tested, installed, and commissioned the new underground switches at South Prospect & Pearl Streets.
- Performed troubleshooting at Queen City substation of tagging switch issue on 3MB breaker.
- Performed troubleshooting at the underground switch at Battery and Pearl Streets for battery and control cable issues.
- Worked with a contractor at the Lake Street Gas Turbine building to perform load testing on battery systems.
- Issued the design and work order for make ready work on Leddy Park Road for FirstLight fiber attachment.

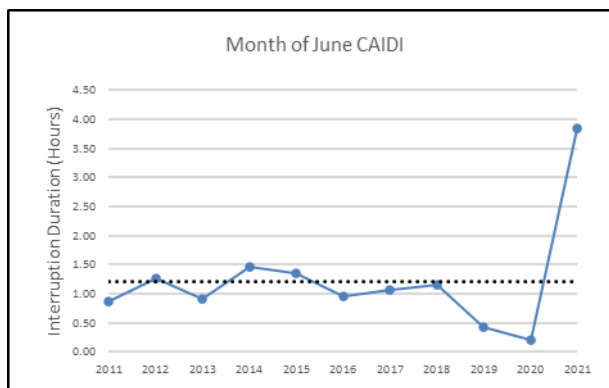
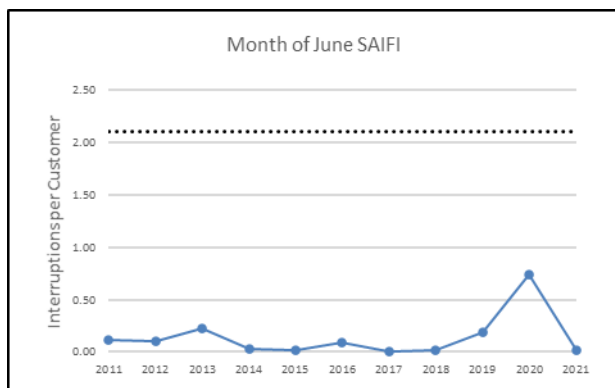
SAIFI & CAIDI Outage Metrics:

BED's distribution system experienced 12 outages in June 2021 (3 unscheduled and 9 scheduled). BED's SAIFI for the Month of June was 0.02 interruptions per customer and CAIDI was 3.85 hours per interruption. BED's YTD SAIFI is 0.04 interruptions per customer and YTD CAIDI is 2.06 hours per interruption. The increase in the monthly and YTD CAIDI metrics are the result of a large and sustained outage that was required to safely replace the underground switch at Church and Cherry Street.

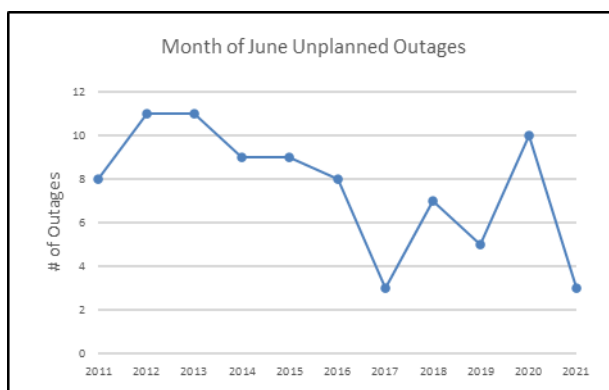
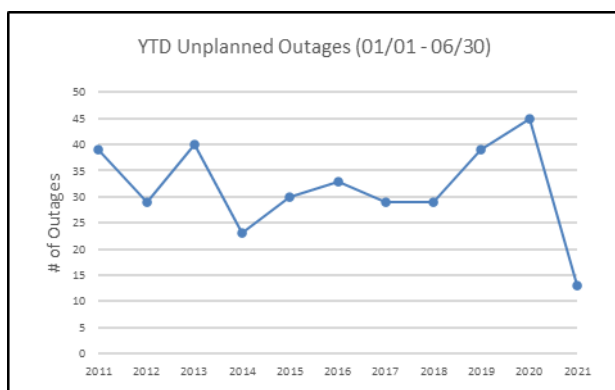
The following figure shows BED's historical YTD SAIFI and CAIDI:



The following figure shows BED's historical June SAIFI and CAIDI:



The following figure shows BED's historical Unplanned Outages:



GENERATION

McNeil Generating Station, June 2021

Month Generation:	18,302.0 MWh
YTD Generation:	142,177 MWh
Month Capacity Factor:	50.8%
Month Availability:	93.1%
Hours of Operation:	379.8 Hours

McNeil performed the summer maximum claim audit on June 5th, we generated 52.078MW for 2 hours.

Winooski 1, June 2021

Month Generation:	641.915 MWH (29.006% of average)
YTD Generation:	12,609.054 MWH (69.97% of average)
Month Capacity Factor:	12.047 %
Month Availability:	99.8 %

No major incidents to report.

Burlington Gas Turbine June 2021

Month Generation:	32.596 MWh
YTD Generation:	130.694 MWh
Month Capacity Factor:	0.236%
Month Availability:	95.240%
Hours of Operation Unit A:	3.2
Hours of Operation Unit B:	3.2

There were three total operations of the asset during the month of June. Two were dispatched operations of the asset during the month and an additional self-scheduled test operation occurred after battery bank load testing was completed. Downtime realized during the month was for battery bank load testing and all operations were successful. The asset is fully functional and in service at the end of the month.

Solar (Pine Street 107 kW)

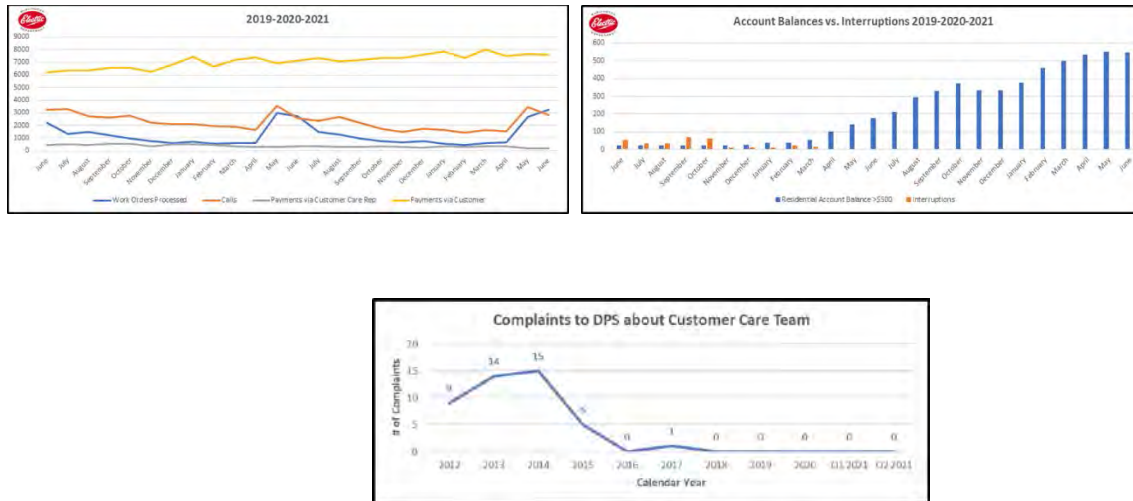
Month Generation:	15 MWh (-5% from previous year)
YTD Generation:	56 MWh
Month Capacity Factor:	21%
Month Availability:	100%

Solar (Airport 499 kW)

Month Generation:	83 MWh (39% from previous year)
YTD Generation:	293 MWh
Month Capacity Factor:	23%
Month Availability:	100%

Center for Customer Care & Energy Services – Mike Kanarick**Customer Care**

- **Call Answer Time (75% in 20 seconds):** June 2021 69.3%, May 65.8%, April 91.0%, March 89.1%, February 93.1%, January 86.7%. June 2020 74.8%, May 65.9%, April 86.9%, March 84.2%, February 84.1%, January 85.4%. **Monthly # calls down slightly from May, but still nearly double April # calls (from 1,554 to 2,859) and # work orders 5x the April # and slightly higher than the May #.**
- **Burlington Resource and Recovery Center (RRC):** BED's Communications team officially completed its work assisting the Burlington Resource and Recovery Center (RRC) with managing the RRC website, social media, and other communications efforts. Those responsibilities now will be handled by CEDO staff.
- **June 2021 Stats:** please see dashboard for additional metrics categories.

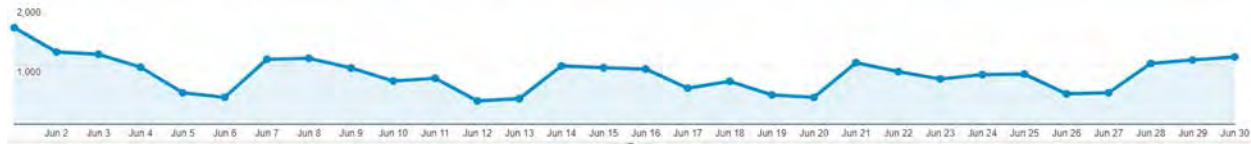


Communications and Marketing

- Rate case proposal rolled out on May 18 via this [press release](#). June North Avenue News column was a letter from GM Darren Springer explaining the need for a rate case and encouraging customers to take advantage of savings through our energy efficiency programs and our new low-income energy assistance program. Important message on July bills provided information about the rate case and energy assistance program.
- Vermont Emergency Rental Assistance Program (VERAP - erap.vsha.org): launched by State in April “to help alleviate income pressure on tenants and landlords and restore stability to the rental community.” VERAP will help tenant households with paying rent, as well as paying utility and home energy costs. The program had a slow start, but as of the end of June, BED had verified 41 of 133 program applicants, totaling more than \$20,000 that will be coming to BED. We will be working diligently to process applications as quickly as possible to capture available funds for BED. We included an ad in the North Avenue News in July promoting VERAP.
- Vermont COVID-19 Arrearage Assistance Program (VCAAP) 2.0: VCAAP 1.0 ended in mid-December 2020 and through which BED was successful in securing for our customers \$345,437 (\$259,098 residential and \$86,339 commercial) in grants to help utility customers pay past due balances greater than 60 days. VCAAP 2.0 is due to launch later this month and will provide BED customers with funds to help them pay down their arrearages.
- Defeat the Peak: our 1st two peak events were called during the evenings of June 29 and 30, and the communications team alerted the community through press releases, blast e-mails and social media. We were successful at defeating the peak on both occasions, saving 468 kilowatts Tuesday and 452 kilowatts yesterday, which is equivalent to the peak electricity used by approximately 920 homes. Not only did we help the environment, but also we will be awarding \$1,000 each to our nonprofit partners, Janet S. Munt Family Room Parent-Child Center and Make-A-Wish Vermont.
- E-billing Promo Partnership with Vermont Gas and Vermont Lake Monsters: after a year off during the pandemic, the BED-VGS-Lake Monsters partnership is back. E-billing saves \$18 per year per customer, with customers receiving two tickets and \$10 in Monster Money to spend at the ballpark. Game dates this year are on July 21 and July 29 when customers will join us at the ballpark and visit the BED booth on the concourse at Centennial Field.

- North Avenue News: July column promotes the temporary energy assistance program for low-income customers, VERAP, E-bill promotion with our partners at the Vermont Lake Monsters and VGS. Our July ad promotes VERAP.
- June 2021 Website and Facebook Highlights
 - We launched our new www.burlingtonelectric.com website this month. The new site is built on the Wordpress platform and provides more security and easier updating and upgrading capabilities. Huge thanks to Adam Rabin, BED's Communications & Technology Specialist, for all his hard work to make this happen.
 - Website traffic took a sharp dip from May as expected since our student customer population turnover had mostly been complete. However, we still had higher-than-average traffic and more than we had in June 2020.
 - Website traffic throughout month
 - Overall site-wide pageviews for June = 25,159
 - May 2021 = 28,428
 - April 2021 = 22,745
 - March = 21,463
 - February = 18,773
 - January = 20,402
 - December = 18,797
 - November = 19,638
 - October = 20,661
 - September = 23,850
 - August = 26,709
 - July = 23,169
 - June = 22,464
 - Unique homepage pageviews for June = 7,484
 - May = 7,499
 - April = 5,404
 - March = 5,775
 - February = 5,165
 - January = 7,571
 - December = 5,561
 - November = 7,071
 - October = 5,844
 - September = 9,266
 - August = 7,883
 - July = 6,830
 - June = 7,292

Full site traffic for June 2021



- Visitors by website page – please note that some of the June 2021 columns indicate NA as the page-specific URLs changed when we launched our new website. We will continue to track this information, which will become more meaningful each month.

Page title	June 2021	May 2021	Apr 2021	Mar 2021	Feb 2021	Jan 2021	Dec 2020	Nov 2020	Oct 2020	Sept 2020	Aug 2020	July 2020	June 2020
Waste Wood Yard	1160	1569	2034	1110	367	979	761	1756	1545	1303	1749	1442	1816
Report A Problem	135	93	60	88	80	80	121	76	140	721	993	83	980
Stop or Start Service	1079	2599	622	337	279	336	277	330	366	502	873	782	1059
E-billing	451	337	380	352	368	495	528	397	394	669	673	578	539
Contact Us	731	949	468	560	413	417	467	414	436	547	655	545	713
McNeil Generating Station	429	627	791	517	395	525	507	734	634	548	624	574	655
Air-Source Heat Pumps	430	599	504	600	567	347	322	313	338	434	518	551	562
Rebates & Incentives	NA	631	591	506	420	486	361	317	340	406	494	566	774
Green Stimulus	233	255	257	280	504	283	208	158	152	171	357	410	682
Cancel Your Service	264	1388	246	98	88	84	85	105	129	161	277	270	430
Leadership Team	240	212	198	308	218	286	207	193	190	269	250	225	224
Rates & Fees	247	310	184	212	218	161	140	139	190	190	240	229	218
Usage Tracker Registration	223	107	118	150	196	185	209	147	154	201	238	326	242
RFP	158	143	439	393	471	404	258	387	400	383	232	255	605
Residential Ways to Save	220	217	173	175	163	137	159	137	212	172	205	285	306
Electric Vehicles	332	247	258	246	218	210	190	208	296	219	199	186	209
E-Bikes	192	223	242	196	117	106	109	117	131	174	197	198	294
Net Zero Energy News	178	210	132	187	195	228	179	225	222	241	193	159	233
Electric Vehicle Rebates	NA	325	281	228	179	185	188	161	172	173	187	160	199
COVID-19 Updates	540	335	275	332	301	349	337	323	281	83	185	94	217
Start Service (Residential)	NA	755	118	50	62	56	58	87	60	103	158	157	192
Our Energy	164	143	241	230	182	143	146	185	187	195	135	130	165
Electric Lawn Mowers & Leaf Blower	229	408	312	176	79	131	70	157	101	88	113	186	205
RFP Detail	NA	23	401	199	414	303	148	293	321	403	98	91	730
Defeat The Peak	155	11	17	20	35	0	0	1	0	0	35	232	533
Commercial Ways to Save	62	26	46	59	33	37	41	34	53	33	21	32	35

Energy Services

UVM

- UVM Physical Plant Department regular June monthly check-in meeting – BED Energy Services and Engineering teams met with UVM staff to discuss planned new construction projects, street lighting, and several energy efficiency upgrade projects.

UVMCMC

- No project updates to report this month but UVMCMC sustainability staff continues to participate in Burlington 2030 program activities.

Other Services

- City of Burlington / City Hall Renovation – The envelope improvements in the attic, HVAC efficiency upgrades (including an ERV), and a LED lighting retrofit are all complete. BED completed a site visit earlier this month to view all of the renovations. Particular attention was given to the new lighting system. BED is encouraging the owner to ensure that the total fixture wattage is trimmed down to the foot-candle levels recommended by the IESNA. This will prevent over-lighting of the space, minimize lighting energy usage, and possibly allow a custom LPD incentive to be developed which will increase the total rebate for the project.
- City Market Downtown / Open Case Cooler Door Adds – After months of planning, the door assemblies were delivered to City Market and a time set up to install them. This necessitated a store closure for one day. Due to an ordering error at the manufacturer, only 52 ft of the 60 ft of

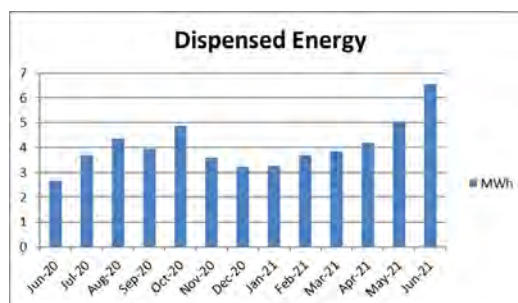
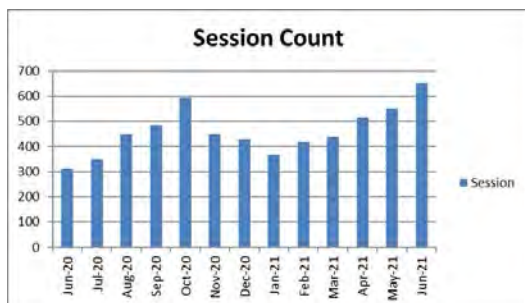
doors arrived. The final pieces will arrive at a later date and then be installed. The incentive is being held for the time being until the invoicing for the project is complete. A refrigeration measure like this, where open cases are enclosed in insulated doors, is a very good investment, with a typical simple payback of two or three years.

- BETA Technology – North and South Hangar Renovations and NC – This manufacturing company's expansion is continuing. BED has been in contact with their project manager concerning the completed renovations of the south hangar. Discussions have been initiated about the north hangar new construction which may involve a custom lighting measure as well as possible custom HVAC energy saving measures. The north hangar construction is scheduled to be complete around November/December of this year.
- Flynn Theater Stage Lighting Retro-fit – This project involved the replacement of 60 1,000-Watt incandescent stage lighting fixtures with LED replacement fixtures of only 161 Watts. Despite their relatively limited usage hours throughout the year, the large difference in wattage still results in considerable energy savings.
- Hannaford North Avenue/ Renovation – Over the last few months BED received preliminary information on a planned renovation project at the Hannaford's North Avenue grocery store. Hannaford has enlisted VEIC to assist in obtaining energy efficiency rebates for all their stores across the east coast. Since then, a large body of project documentation was made available to BED along with energy savings estimates for at least some portion of the work. It appears that some significant energy savings will result from some of the renovations, particularly in the area of converting open merchandiser designs into enclosed door coolers. BED has responded with additional suggestions that could increase the store's rebates. We are now awaiting a response to our last communication. Although some of the equipment for the project is becoming available on-site, the project is not scheduled to be fully completed until November 2021.
- Hickok and Boardman / HVAC and Controls Upgrade – A major upgrade to the HVAC system for this multi-story office building was completed this month. A new central chiller and dry cooler were previously set in place, and a complete upgrade to the building's DDC system was completed this month. The BED site visit is now complete, and web-access to the DDC will allow us to assist in confirming optimum scheduling, as well as proper sequence of operation. The committed incentive will be released to the owner at the end of this month. In a related project, the owner and BED are investigating an electrochromic glass modification to the existing glass windows in several offices in this building. Due to high solar gains, certain spaces are difficult to keep cool and force the central cooling system to run unnecessarily hard. The addition of electrochromic glass allows the solar heat gain co-efficient (SHGC) and visible light transmission of the windows to be automatically adjusted to minimize this heat gain, especially under worst-case conditions.
- Soulshine Power Yoga / High Bill Complaint - BED continues to work with this customer located on Church Street in downtown Burlington. The use of a Far Infra-Red ceramic heating system suspended from the ceiling has caused higher electric bills than the owner expected. BED's effort is to reduce the monthly bill by maintaining control over the monthly peak KW, which is a significant portion of the electric bill. Additional analysis this month confirmed that warmer outside air temperatures combined with better control of the electric heating system is significantly lowering KWH usage for the space. This may allow the customer to move to a different tariff structure which will drop the electric costs even further.

- Café Hot LED Lighting Retro-fit – BED was contacted by this customer to determine if a lighting rebate was available for LED T8-style “TLEDs” if purchased outside the Vermont lighting distribution ‘Smartlight’ rebate network. A total of 60 TLEDs are to be purchased. BED confirmed that a custom rebate could be made available to Café Hot for this work.
- Cambrian Rise / Laurentide New Construction - The construction of this large 76-unit affordable multifamily apartment building was completed about a year ago. It has many high-efficiency features, including a well-insulated and tight building envelope and energy recovery ventilation units. BED completed a site visit this month, which had been delayed previously by Covid restrictions. We are still in the process of analyzing the electric consumption of the building to ensure that it is meeting its original energy efficiency goals.
- Cambrian Rise / Aurora New Construction – BED has been contacted by the owner and their engineering representative about three upcoming new condos envisioned to be constructed at Cambrian Rise: Buildings D, E and F. An agreement has been negotiated between the owner, BED, and VGS to fund a preliminary energy model to determine if energy savings for the project will justify the generation of a more detailed and extensive energy model in the future. This more formal model would be used for savings verification purposes.
- YMCA New Construction / Energy Modeling and Second Rebate Payment - This new construction project was completed over a year ago and is of a highly efficient design. BED paid its first installment of the committed rebate at the time of occupancy. The second half of the rebate was to be paid about one year later when proof of the efficiency of the design was available through analysis of actual electrical bills. Covid considerations added several months of delay to this process. However, this month sufficient data was available to prove the building is operating as designed, and as predicted by the original energy model. Consequently, BED has arranged to pay out the second rebate by early next month.

Electric Vehicles

- The EVSE dispensed a total of 5.07 MWh and supported 549 sessions.
- The EVSE dispensed a total of 6.55 MWh and supported 652 sessions.
- The top 3 sales were 56, 57 & 60 kWh and occurred at Cherry Street and College Street garages.
- The top 10 sessions (1.5% of total) accounted for 8.0% (526 kWh) of the total monthly sale. The ten sessions ranged from 47kWh-60kWh.
- The DC fast chargers accounted for 58 of the 652 sessions and dispensed 9% of the total energy. The Marketplace Garage station dispensed 1.5x as much energy as the Pine St. station. The Pine Street station is temporarily out of service.
- The EVSE served 375 unique drivers.
- The replacement head for BE15 (122 Main Street) was installed 6/23.
- A head swap was performed on (BE16).
- Below is the Session Count and another graph showing Dispensed Energy from the charging stations on a per month basis.



2017-2021 Tier 3 EV Program

# of Vehicles	Model	
71	Nissan Leaf	Full EV
13	Nissan Leaf (pre-owned)	Full EV
40	Chevy Bolt	Full EV
3	Chevy Bolt (pre-owned)	Full EV
1	Ford Energi	Full EV
9	VW E-Golf	Full EV
3	Ford Focus Electric	Full EV
1	BMW i3	Full EV
12	Tesla Model 3	Full EV
4	Tesla Model Y	Full EV
12	Hyundai Kona	Full EV
3	Kia Niro EV	Full EV
2	Mini Cooper HT	Full EV
4	Ford c-max Energi	Hybrid
1	Ford c-max Energi (pre-owned)	Hybrid
23	Toyota Prius Prime Plus	Hybrid
16	Toyota Rav4 Prime	Hybrid
1	Toyota Prius (pre-owned)	Hybrid
2	Chevy Volt	Hybrid
5	Chevy Volt (pre-owned)	Hybrid
11	Mitsubishi Outlander PHEV	Hybrid
10	Hyundai Ioniq	Hybrid
1	Hyundai Ioniq (pre-owned)	Hybrid
1	Hyundai Sonata Plug-in	Hybrid
1	Mini Countryman SE	Hybrid
5	Subaru Crosstrek Limit	Hybrid
6	Honda Clarity	Hybrid
1	Kia Niro Plug-in	Hybrid
1	Honda Clarity (Pre-Owned)	Hybrid
263	Total	

- Number of income-eligible participants to date – 36
- Number of customer loans with lending partners to date – 5
- Number of customers currently participating in the new EV Rate- 65
- Number of EV home charging stations rebates to date - 41

Electric Lawn Equipment to Date

- Number of e-mower rebates to date – 320
- Number of e-leaf blowers to date - 14

Heat Pump Installations to Date (since the September 2019 NZEC announcement)

- Number of heat pump hot water heaters to date – 13
- Number of space conditioning heat pumps to date (ductless and centrally ducted) – 359

Electric E-Bikes to Date

- Number of e-bike rebates to date – 243

Electric Induction Stovetops to Date (new offering in Jan 2021)

- Number of induction Stovetops rebates to date – 4

BED 2020-2021 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual	2018 Yearly Actual
Engage Customers and Community										
Call answer time 75% within 20 seconds	75%	69%	65%	91%	89%	93%	87%	avg 81%		
Delinquent accounts >\$500	0	545	552	535	500	458	378	avg 201		
Disconnects for non-payment	0	0	0	0	0	0	0	45		
# of residential weatherization completions	10	1	1	0	1	0	0	3	11	11
Weatherization completions in rental properties		0	-	-	0	0	0	0	TBD	TBD
# or % of homes or SF weatherized		TBD	TBD	TBD	TBD	TBD	TBD	TBD	0	0
Champ Challenge weatherization participants		0	0	0	0	0	0	1	TBD	TBD
# of commercial building with improved thermal envelopes		0	1	0	1	0	0	5	0	0
% of EEU charge from LMI customers spent on EE services for LMI customers		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
# of customers enrolled in DtP mailing list	TBD	693							523	
# of large customers participating in DtP		12			NA		NA			
Strengthen Reliability										
SAIFI (AVG interruptions/customer) (annual target)	< 2.1	0.02	0.01	0.004	0.01	0.004	0.002	1.50	1.0300	0.43
CAIDI (AVG time in hrs to restore service) (annual target)	< 1.2	3.85	0.75	0.77	0.49	1.05	0.72	0.55	0.75	0.93
Distribution System Unplanned Outages (annual target)	82	3	0	1	3	2	4	90	98	78
McNeil Forced Outages	0	0	0	0	0	0	1	21	TBD	TBD
W1H Forced Outages	0	0	0	0	2	1	0	2	TBD	TBD
GT Forced Outages	0	0	0	0	1	0	1	3	TBD	TBD
Invest in Our People, Processes, and Technology										
Avg. # of days to fill positions under recruitment	120	77	38	65	35	77	62	179		
# of budgeted positions vacant	0	10	7	6	6	6	7	6	NA	NA

BED 2020-2021 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual	2018 Yearly Actual
Innovate to Reach Net Zero Energy										
<i>Tier 3 Program</i>										
# of residential heat pump installs		32	25	30	7	14	24	203	10	0
# of commercial heat pump installs		0	1	0	0	0	0	13	0	0
# of residential hot water heat pump installs		0	2	1	0	0	1	6	4	0
# of commercial hot water heat pump installs		0	0	0	0	0	0	0	0	0
Heat pump rebates		36	26	30	7	14	25	212	0	0
Heat pump hot water heater rebates		0	2	1	0	1	1	3	0	0
LMI heat pump rebates		2	4	8	0	1	0	6	4	0
Heat pump technology installs in rental properties		2	3	0	0	2	0	9	TBD	TBD
LMI heat pump hot water heater rebates		0	0	-	0	1	0	0	1	0
EV rebates - new		6	10	4	7	4	6	14	36	44
EV rebates - pre-owned		0	0	1	0	1	1	8	2	0
LMI EV rebates	See NZE Roadmap Goals below	1	2	0	0	1	0	7	7	0
PHEV rebates - new		5	1	3	5	3	0	10	17	14
PHEV rebates - preowned		0	2	0	1	2	0	5	3	0
LMI PHEV rebates		1	0	0	0	1	0	6	2	1
Public EV chargers in BTV (total)		27 ports	27 ports	27 ports	27 ports	27 ports	27 ports	27 ports	14	14
Public EV charger energy dispensed (kWh)		5,060	5,070	4,200	3,860	3,600	3,280	35,690	78,000	67,931
Home EV charging station rebates		5	3	0	3	3	2	20	12	0
EV rate charging customers (total)		65	60	56	52	49	47	40	28	4
Level 2 charger rebates		0	0	0	0	10	0	0	1	0
Level 1 charger rebates		0	0	0	0	0	0	1	0	0
E-bike rebates		35	19	0	8	0	1	36	65	62
E-mower rebates		23	34	16	6	1	1	95	142	NA
E-forklift rebates		0	0	0	0	0	0	0	0	0
MWE of Tier 3 measures installed		1,782	1,978	1,339	1557	818	2,064	35,112	3,342	
% Tier 3 obligation met with program measures	100%	64%	52%	39%	30%	19%	14%	283%	31%	30%
Net Zero Energy Roadmap Goals										
# of solar net metering projects installed		2	1	1	1	5	5	24	33	52
No. of homes receiving NZE Home Roadmaps		0	0	0	1	1	0	7		
Residential heat pumps for space heating (no. of homes)	2020: 3963	NA	NA	NA	NA	NA	NA	891	572	
Commercial heat pumps for space heating (SF floor space served)	2020: 1190	NA	NA	NA	NA	NA	NA	1,304	374	
Residential heat pumps for water heating (no. of homes)	2020: 1466	NA	NA	NA	NA	NA	NA	92	87	
Commercial heat pumps for water heating (SF floor space served)	2020: 263	NA	NA	NA	NA	NA	NA	0	-	
EV registrations in BTV (light-duty)	2020: 548	NA	NA	NA	NA	NA	NA	356	291	
Greenhouse gas emissions (1000 metric tons CO2)	2020: 190	NA	NA	NA	NA	NA	NA	182	211	
Fossil fuel consumption (billion BTU)	2020: 3207	NA	NA	NA	NA	NA	NA	3,142	3,619	
Demand Response										
# of Defeat the Peak events called		2					0%		4	
Average kW savings per DtP event		460	NA	NA	NA	NA	NA	261	242	

BED 2020-2021 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual	2018 Yearly Actual
<i>Safety & Environmental</i>										
No. of workers' compensation/accidents per month	0	0	1	0	2	0	0	8		
Total Paid losses for workers' compensation accidents (for the month)	\$225,000 annual	\$43,320	\$7,042	\$2,809	\$8,289	\$2,768	\$1,868	\$ 165,402	\$38,288	\$ 255,273
Lost Time Incident Rate (days/year) (Dec numbers reflect annual results)	<= 3.5	N/A	N/A	N/A	N/A	N/A	N/A	0.93	0.89	1.89
Lost Time Severity Rate (days/year) (Dec numbers reflect annual results)	<= 71	N/A	N/A	N/A	N/A	N/A	N/A	41.71	78.2	109.75
Lost work days per month	0	0	0	0	0	0	0	45		116
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	<0.075	0.068	0.069	0.071	0.068	0.069	0.067	0.07		
# of reported spills, waste water incidents (monthly)	0	1	0	0	0	0	0	4		
Phosphorus levels to DEC in lbs (monthly/yearly total)	<0.8/37	0.034/1.373	0.048/1.339	0.17/1.291	0.631/1.121	0.192/0.192	0.334/1.81		1.169	
# of new power outage claims reported (monthly)	1	1	0	1	0	1	0	4		
# of new auto/property/other liability claims reported (monthly)	2	1	1	1	2	2	0	27		
<i>Purchasing & Facilities</i>										
# of Purchase Orders for Inventory (Target: avg for winter months)	42	37	30	32	53	28	90	593		
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	\$78,000	\$105,330	\$65,173	\$31,021	\$139,566	\$193,052	\$91,356	975,531		
# of stock issued for Inventory (Target: avg during winter months)	320	406	265	501	272	334	315	4,545		
\$ value of stock issued for Inventory (Target: avg. during winter)	\$ 65,000	\$ 100,339	\$ 45,103	\$ 75,434	\$ 61,775	\$ 37,230	\$ 102,901	1,086,478		
# of posters pulled from poles monthly (Target: goal to remove each month)	58	205	185	221	176	72	165	627		
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	3	9	4	4	8	1	1	87		
<i>Finance</i>										
Debt service coverage ratio	1.25		4.05	4.47	3.89	4.01	3.56	NA-FY basis	NA	NA
Adjusted debt service coverage ratio	1.5		1.01	1.15	0.96	1.02	0.86	NA-FY basis	NA	NA
Days unrestricted cash on hand	>90		117	127	122	126	109	NA-FY basis	NA	NA
<i>Power Supply</i>										
McNeil generation (MWH) (100%)	per budget	18,302	15,925	17,407	35,682	32,549	22,312	192,696		
McNeil availability factor	100%	93%	95%	76%	100%	100%	61%			
McNeil capacity factor	per budget	51%	42.8%	48.3%	95.9%	96.9%	59.9%			
Winooski One generation (MWH)	per budget	642	2,636	3,713	2,872	1,162	1,584	21,194		
Winooski One availability factor	100%	100%	100%	96%	100%	90%	90%			
Winooski One capacity factor	per budget	12%	48%	70%	52%	23%	29%			
Gas Turbine generation (MWH)	NA	32.6	15.4	18.5	29.4	17.8	16.9	441		
Gas Turbine availability factor	100%	95%	100%	100%	99.9%	100%	99%			
Gas Turbine capacity factor	NA	0.24%	0.09%	0.11%	0.17%	0.115%	0%			
BTV solar PV production (mWh)		644	642	525	548	190	107	5,182		
Cost of power supply - gross (\$000)			\$ 2,431	\$ 2,092	\$ 2,955	\$ 2,477	\$ 2,457	\$ 31,081		
Cost of power supply - net (\$000)			\$ 2,090	\$ 514	\$ 2,955	\$ 592	\$ 2,457	\$ 23,388		
Average cost of power supply - gross \$/KWH			\$0.097	\$0.086	\$0.111	\$0.095	\$0.089	\$0.100		
Average cost of power supply - net \$/KWH			\$0.084	\$0.021	\$0.111	\$0.023	\$0.089	\$0.076		

*****DRAFT*****
MINUTES OF REGULAR MEETING
BURLINGTON ELECTRIC COMMISSION

Wednesday, June 9, 2021, 5:30 pm

The regular meeting of the Burlington Electric Commission was convened at 5:38 pm on Wednesday, June 9, 2021 via Microsoft Teams Video Meeting.

Channel 17 was present via Microsoft Teams Video to record this meeting.

Commissioners Chagnon, Herendeen, Moody, and Stebbins participated via Microsoft Teams at the start of the meeting.

Staff members present via Microsoft Teams included Darren Springer, Paul Alexander, James Gibbons, Mike Kanarick, Munir Kasti, Laurie Lemieux (Board Clerk), Dave MacDonnell, Paul Pikna, and Emily Stebbins-Wheelock.

1. Agenda

There were no changes to the Agenda.

2. May 12, 2021 and May 19, 2021 Meeting Minutes

Commissioner Chagnon made a motion to approve the minutes of the May 12, 2021 Commission Meeting; the motion was seconded by Commissioner Herendeen.

The Board Clerk, Laurie Lemieux, conducted a roll call vote by calling on the following Commissioners:

Commissioner Chagnon. Aye
Commissioner Herendeen. Aye
Commissioner Moody. Aye
Commissioner Stebbins. Aye

Results: 4 Ayes with 0 Nays, the motion carries.

Commissioner Herendeen made a motion to approve the minutes of the May 19, 2021 Commission Meeting; the motion was seconded by Commissioner Chagnon.

The Board Clerk, Laurie Lemieux, conducted a roll call vote by calling on the following Commissioners:

Commissioner Chagnon. Aye
Commissioner Herendeen. Aye
Commissioner Moody. Aye
Commissioner Stebbins. Aye

Results: 4 Ayes with 0 Nays, the motion carries.

3. Public Forum

There were no members of the public present.

4. Commissioners' Corner

Commissioner Herendeen thanked Mr. Gibbons for the information on heat pump cost balance and said he would reach out if he has questions.

Commissioner Stebbins stated that she attended a gathering in the Old North End where the resident had a small PV system set up as a small power purchase agreement. Commissioner Stebbins asked how many small power purchase agreements there are and how this is working.

Mr. Gibbons stated that a customer, who had reached out to BED, wanting to put in a new metering array that was oversized for future needs, but not wanting to lose the production under the net metering arrangement, asked if BED could accommodate this request. Mr. Gibbons asked the customer if he would be willing to do a purchase power agreement with BED, knowing that by doing so, the customer would not get the net metering rate, but would not forfeit any generation, resulting in an agreement that ended up being very close to the net metering rate. The customer agreed. This agreement helped the customer solve his issue of not wanting to lose excess generation. Mr. Gibbons stated that BED has approximately eight arrays in Burlington, which range from the smallest up to the South 40.

Commissioner Moody asked when the Commission might be returning to in-person meetings. Commissioner Stebbins noted that Mr. Springer stated in the Strategic Direction the desire to identify a path forward that would allow for a flexible approach to hybrid work schedules along with in-person meetings. Commissioner Stebbins' sense is to see how this flexible approach evolves and to look at how other City Boards and Commissions and the City Council approach in-person meetings moving forward. Commissioner Moody stated that, through his work at Channel 17, he is seeing municipalities coming back to in-person meetings in July and also adopting hybrid models, which allow more people to participate. Commissioner Moody asked if BED would consider this hybrid model.

Mr. Springer stated that the Mayor announced that the City would be lifting its emergency order on June 15, and that we have an expectation that the State is going to lift the remaining COVID

restrictions in the next few days. Mr. Springer stated that we will have the flexibility to continue with remote technology for Commission meetings as needed, but if there is desire and interest by the Commission to meet in person, doing so would be feasible.

Commissioner Stebbins stated that we have learned that more people can participate when there are Teams or Zoom meetings, creating a meaningful result for the public. Historically, the Commission does not meet in August; we will have further discussion at the July meeting and perhaps look at hybrid meetings beginning in September.

5. GM Update

Mr. Springer thanked the Commission for its willingness to hold several special meetings, and thanked Commissioner Stebbins for speaking during public forum at the Board of Finance and City Council meetings. The Council approved our rate case authorization by a 10-1 vote. We are planning a mid-June filing to stay on track for the August surcharge. We have provided an update to Moody's on the rate case and the department is instituting additional semi-annual check-ins with University of Vermont and UVM Medical Center to keep these customers better apprised of how BED is doing relative to our budget expectations and of what we think may be necessary from a rate standpoint so they can better plan their budgets. The department has done a lot of work to prepare for the Energy Assistance Program to help our low-income residential customers. We have created an application form on the BED website allowing customers to sign up for this program. Also included on the website is an information page on the rate case, including a letter from the General Manager. A similar version of this letter was published in the June North Avenue News to reach as many customers as possible. The department is hoping to help a number of customers in the coming months and will keep the Commission posted moving forward on the rate case with the Public Utility Commission.

Mr. Springer stated that we are moving toward a reopening on July 4, with development of a plan to incorporate remote work flexibility to continue during a pilot program period in the second half of 2021. Our employee survey indicated a strong preference for continued remote work options, and our Net Zero Energy Roadmap update confirmed the importance of driving fewer miles in helping to keep us on the path to Net Zero Energy even as we have yet to fully scale up electrification at a pace consistent with the Roadmap. BED should play a role in leading by example to reduce vehicle miles traveled, and our remote work pilot program will be intended to do that. We are looking forward to some in-person events this summer, including BED nights at the ballpark with the Lake Monsters, and an in-person employee appreciation lunch in September.

Mr. Springer stated that this week the City Council gave BED the approval to accept a state multi-year grant of up to \$560K from the Volkswagen Settlement. This grant will help the department purchase the electric bucket truck, which should be delivered by June 2022.

Mr. Springer thanked the Commission for its patience as the department worked on providing edits and feedback on the Strategic Direction. We plan to finalize this document at our July meeting.

As part of BED's efforts to engage with the City on policy and participation, we will be at the Ordinance Committee meeting on June 16 where a proposal for an ordinance change that will require new buildings to have a renewable primary heating system capable of providing at least 85% of the buildings' heating loads through renewable fuels.

Financials

Ms. Stebbins-Wheelock presented a graph showing the monthly impacts of COVID-19 on BED loads from March 2020 through the end of May 2021. In May 2021, BED's loads continued the pattern seen throughout the pandemic; residential sales were 4.7% higher, commercial sales were 3.7% lower, and overall system loads were approximately 2% lower than normal projections.

Ms. Stebbins-Wheelock reviewed the budget-versus-actual results for the month of April FY21. April ended with a net income of \$721K compared to the budgeted net loss of \$662K. This positive variance is mostly due to the fact that BED received REC revenue in April that was budgeted to be received in May.

On the revenue side, sales to customers were 3% or \$218K below budget due to COVID-19 impacts (commercial sales decreased \$253K offset by a residential sales increase of \$33K), and other revenues were \$129K better than budget, most due to EEU reimbursements above budget. Power supply revenues were \$1.6M favorable vs budget, due to REC revenues being received in April instead of May as budgeted. REC revenue for May will be lower than budgeted, and for the full FY21 is forecast to be only \$55K less than budgeted, despite below-budget Winooski One generation. Ms. Stebbins-Wheelock commended the Policy & Planning team for their good work in closing out BED's 2020 REC positions.

Power supply expenses in April were under budget by \$238K, with a wood inventory adjustment resulting in a credit to fuel expense and purchased power expenses also less than budget. Transmission expenses were again higher than budget by \$85K.

Operating expense in April was higher than budget by \$124K, with favorable variance in O&M expenses offset by unfavorable variance in EEU rebates and outside services.

Other income was less than budget by \$206K due to less customer contributions.

FY21 year-to-date, the Department reports an actual net income of \$1.916M compared to budget of \$691K, which is \$1.226M better than budget.

As of April, the Department has spent 56% of the capital budget.

As of the 12 months ending April 2021, the Department has an operating cash balance of \$9.671M and 127 days cash on hand, the debt service coverage ratio is 4.47, and the adjusted debt service coverage ratio remains below target at 1.15.

Ms. Stebbins-Wheelock shared that the Department is currently forecasting to end FY21 at a net loss of approximately \$1.5M (including an estimated \$1M unbudgeted pension liability expense) and 97 days cash on hand.

6. Draft 2021-22 Strategic Direction

Mr. Springer reviewed the changes made to the new draft Strategic Direction and stated that some of the edits are substantive, while others involve grammar, wording, or just cleaning up language to make it easier to understand. Mr. Springer walked through each proposed change and asked for Commission feedback.

Mr. Springer made note of the feedback from the Commission and stated that these edits will be brought back to the BED team. Once changes and edits are made, Mr. Springer will forward an updated draft to the Commission prior to the July meeting to give the Commission as much time as possible to review the proposed final draft.

Mr. Springer stated that the Commission has provided great feedback, thanked the Commission for its patience, and said that he looks forward to presenting a final Strategic Direction at the July meeting.

7. Commissioners' Check-In

Commissioner Herendeen wanted to reinforce the idea that Synapse may be more optimistic than BED about how far we get within a given time to achieve Net Zero. Commissioner Herendeen added that it is important that BED have regular and as quantitative as possible milestones. Strong yet reasonable measures should be instituted, and we must regularly check in on how we're doing – when we're 30% of the way, 60% of the way, and so on.

Commissioner Stebbins stated that the biggest change is debt financing and the need to figure out a way to help customers afford the up-front costs that will save them money in the long run, but not everyone is able or willing to make the investment. If there is a possibility of making a monthly payment that is offset by what they are saving in fossil fuel bills, then that's an opportunity to move forward. It would be great at a future meeting to take the Synapse analysis a step further and review what it looks like in terms of cost savings for the customer.

Commissioner Moody made a motion to adjourn; the motion was seconded by Commissioner Herendeen.

The Board Clerk, Laurie Lemieux, conducted a roll call vote by calling on the following Commissioners:

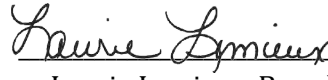
Commissioner Chagnon. Aye
Commissioner Herendeen. Aye
Commissioner Moody. Aye

Commissioner Stebbins. Aye

Results: 4 Ayes with 0 Nays, the motion carries.

The meeting of the Burlington Electric Commission adjourned at 6:48 p.m.

Attest:



Laurie Lemieux, Board Clerk



*FY 2021
Financial Review
May*

June 30, 2021

Burlington Electric Department Financial Review

FY 2021

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FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of May FY21

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	45,764	3,398	3,293	(106)	41,975	40,593	(1,382)
Other Revenues	3,837	262	217	(45)	3,420	2,957	(463)
Power Supply Revenues	8,107	2,528	341	(2,187)	8,107	8,052	(55)
Total Operating Revenues	57,708	6,188	3,850	(2,338)	53,502	51,602	(1,900)
Power Supply Expenses	30,915	2,616	2,431	185	28,430	27,976	454
Operating Expense	18,726	1,394	1,439	(45)	17,204	16,805	399
Depreciation & Amortization	5,231	436	450	(14)	4,795	4,881	(86)
Gain/Loss on Disp of Plant	346	0	0	0	346	228	118
Taxes	3,721	315	298	17	3,414	3,383	32
Sub-Total Expenses	58,939	4,761	4,618	143	54,189	53,273	916
Operating Income	(1,231)	1,427	(768)	(2,195)	(687)	(1,671)	(984)
Other Income	5,689	405	373	(32)	5,307	5,245	(61)
Interest Expense	2,520	212	201	11	2,308	2,254	54
Net Income (Loss)	1,937	1,620	(596)	(2,216)	2,312	1,320	(992)

Year-to-Date Results:

- **Sales to Customers** down \$1,382,400 (3.3%). Non-Residential Sales down \$2,539,600 and Residential Sales up \$1,148,900.
- **Other Revenues** down \$463,000 (13.5%)
 - a. DSM billable (customer driven) down \$375,400.
 - b. Miscellaneous revenues down \$87,200.
- **Power Supply Revenues** down \$55,000; within 1% of budget
 - a. McNeil REC revenue of \$3,951,000 compared to a budget of \$3,866,000.
 - b. Wind REC revenue of \$3,273,000 compared to a budget of \$3,222,000.
 - c. Hydro REC revenue of \$630,000 compared to a budget of \$820,000.
- **Power Supply Expenses** down \$454,000 (1.6%)
 - a. Fuel down \$382,000.
 - b. Purchased Power down \$594,000.
 - c. Transmission Fees up \$521,000.
- **Operating Expenses** down \$399,000 (2.3%)
 - a. Various items are less than budget primarily due to timing and proactive recissions/expense reductions. This includes outside services (\$364,000), materials & supplies (\$181,000), transportation clearing (\$24,600), building clearing (\$68,300) and training/education (\$105,000). Offset by higher expense due to the credit for A&G (“Admin and General Expenses”) charged to Capital projects was less than planned, \$326,500.
- **Gain/Loss on Disposition of Plant** down \$118,000
 - a. Includes operating retirements. The variance is largely due to timing.
- **Other Income** down \$61,000 (1.2%)
 - a. Local Government Expense (“LGER”) grant and hazard pay reimbursement received in February.
 - b. Offset by customer contributions down, \$523,000; customer driven.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of May FY21

Capital Spending – May YTD (\$000's)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$1,940	\$1,938	\$1,825	94%
Other	83	79	53	64%
Transmission	1,106	1,106	1,074	97%
Distribution	2,686	2,534	1,105	41%
General	2,148	2,028	754	35%
Total	\$7,962	\$7,684	\$4,811	60%

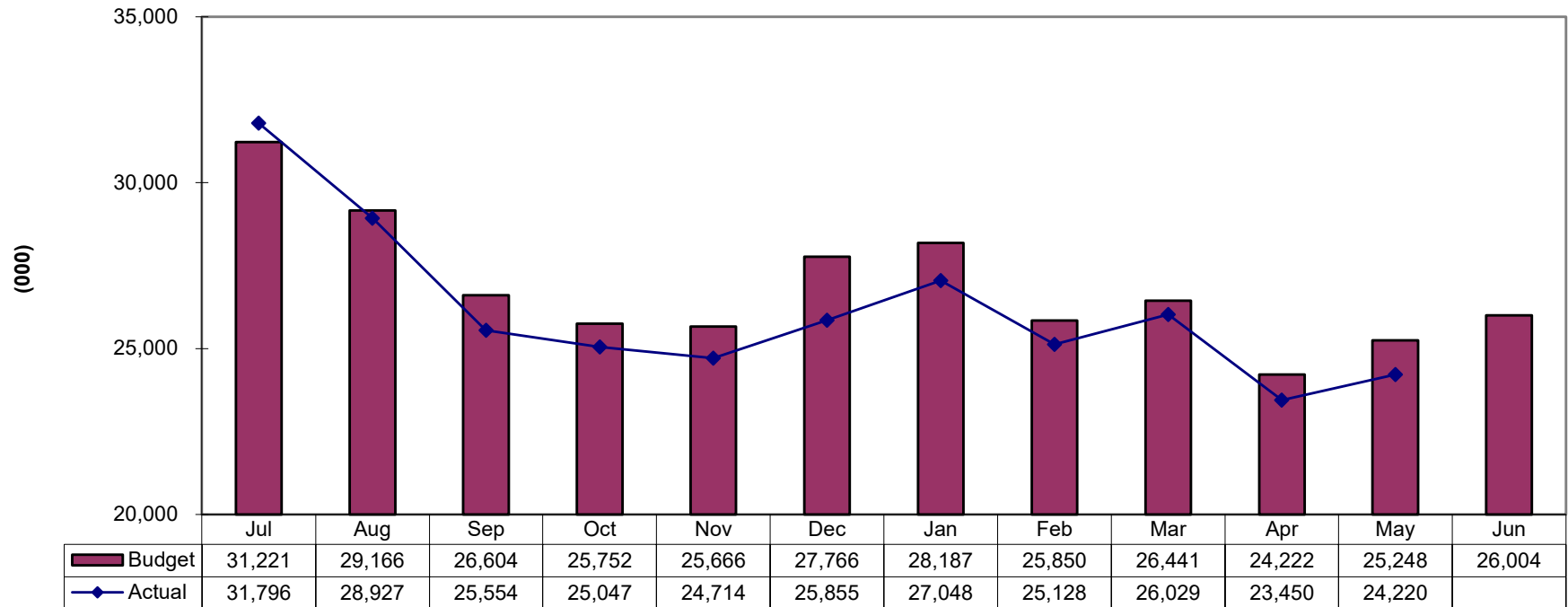
- (1) **Production** – Timing of projects at McNeil Plant; YTD expenses of \$1,025,000 compared to a budget of \$1,269,000. Offset by higher than planned Winooski One Hydro controls upgrade and the GT overhaul.
- (2) **Other** – May included \$35,000 for Public Level 2 EV Chargers.
- (3) **Distribution** – Timing of various projects and includes customer contribution for UVM LCOM, \$227,500.
- (4) **General** – IT Forward project was budgeted throughout the year; YTD expenses of \$435,800 compared to a budget of \$1,534,000. Data Center upgrade YTD expenses of \$210,000 vs budget of \$300,000. Vehicle replacement and other buildings and grounds projects have been delayed, \$117,000.

As of May 31, 2021 Cash and Investments	
Operating Funds	\$6,896,400
Operating Fund – CDs	\$1,161,300
Total Operating Fund	\$8,057,700

Credit Rating Factors – May 2021				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	4.05	3.84
Adjusted Debt Service Coverage Ratio	1.50	1.10	1.01	0.97
Cash Coverage - Days Cash on Hand	90	30	117	129

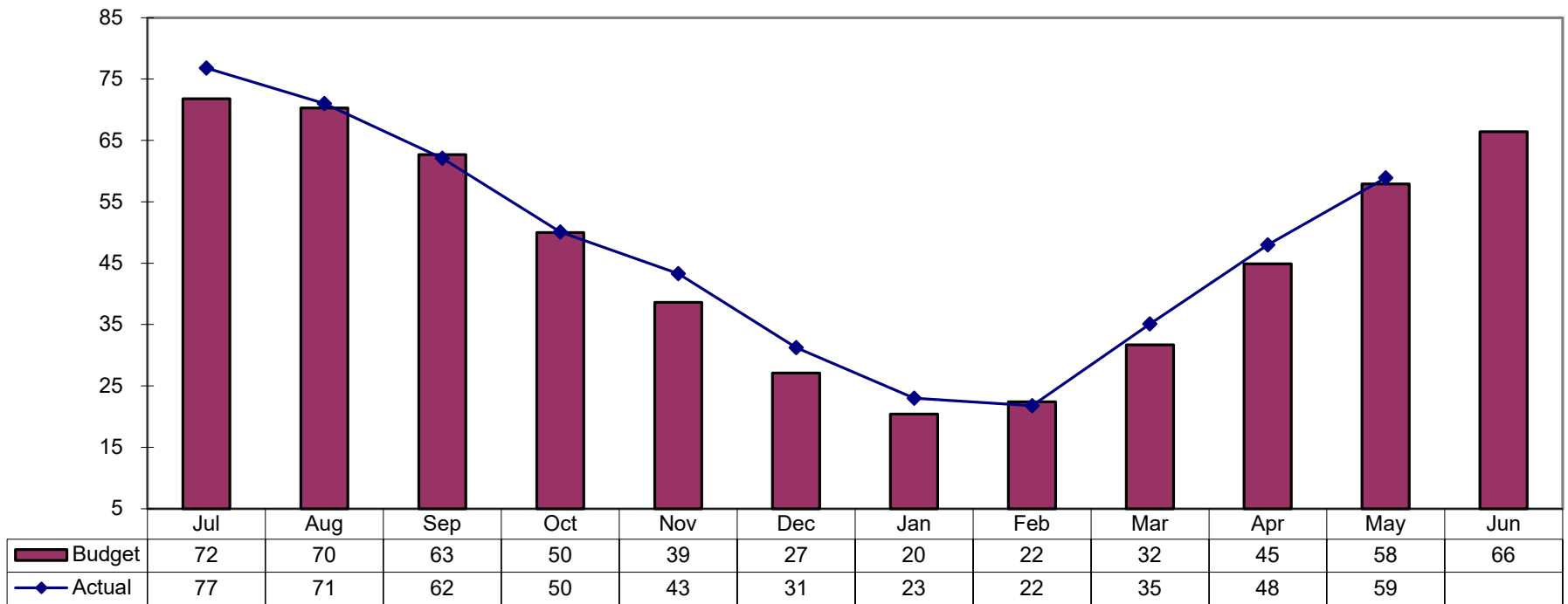
**Burlington Electric Department
Fiscal Year Ending June 30, 2021**

**Total Sales to Customers - KWH
Monthly**



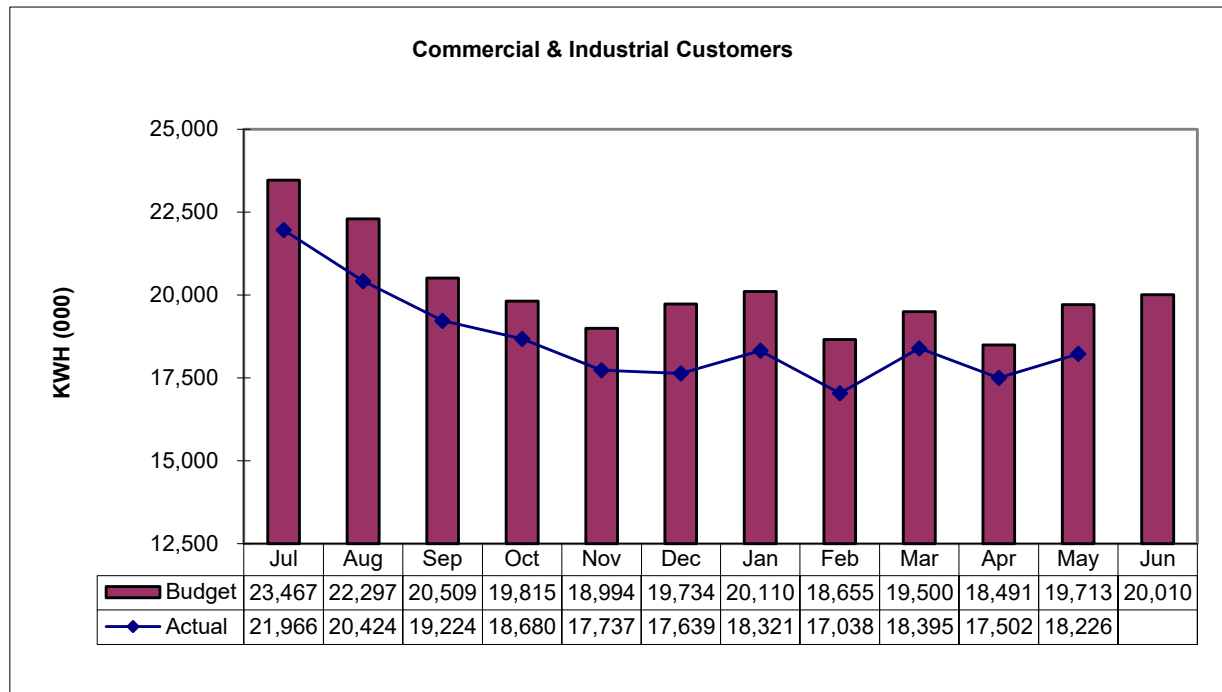
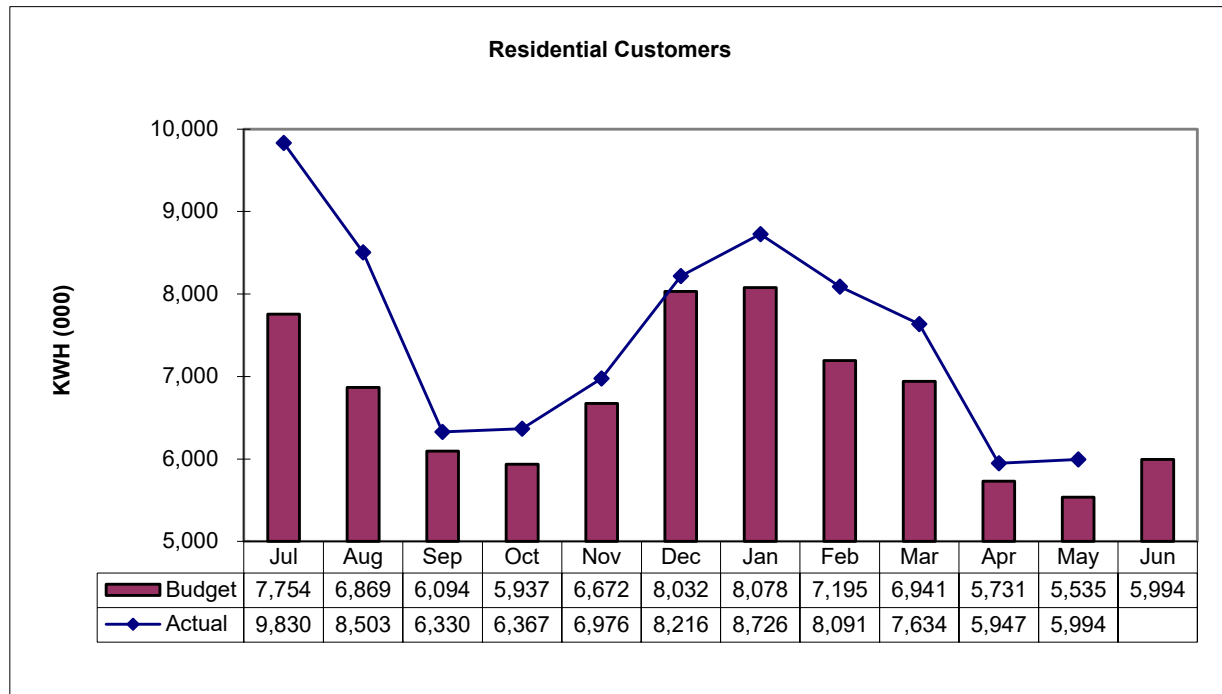
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	31,221	60,386	86,990	112,742	138,408	166,174	194,361	220,211	246,652	270,874	296,122	
Actual	31,796	60,723	86,277	111,325	136,039	161,894	188,942	214,070	240,099	263,549	287,769	

**Burlington Electric Department
Fiscal Year Ending June 30, 2021
Average Monthly Temperatures - Burlington**



Information is recorded by the National Weather Service at the Burlington International Airport. Average temperatures are calculated using the min and max temperature for each day, over a 20 year period.

**Burlington Electric Department
Fiscal Year Ending June 30, 2021
KWH Sales**



Street Lighting is included with Commercial & Industrial Customers.

Net Power Supply Costs **May - FY 2021**

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
Expenses:							
Fuel (p. 7)	\$441	\$485	(\$45)	(1)	\$7,630	\$7,249	\$382 (1)
Purchased Power (p.11)	1,469	1,165	304	(2)	13,959	13,365	594 (2)
Transmission Fees - ISO	429	445	(16)	(3)	5,453	5,788	(335) (3)
Transmission Fees - Velco	209	244	(35)	(4)	867	881	(14) (4)
Transmission Fees - Other	68	92	(25)	(5)	521	693	(172) (5)
Total Expenses	2,616	2,431	184		28,430	27,976	454
Revenues:							
Renewable Energy Certificates - McNeil	1,298	0	(1,298)		3,886	3,951	65
Renewable Energy Certificates - Wind	1,034	167	(867)		3,222	3,273	51
Renewable Energy Certificates - Hydro	169	144	(25)		820	630	(190)
Renewable Energy Certificates - Other	27	30	3		179	198	19
Total Revenues	2,528	341	(2,187)	(6)	8,107	8,052	(55) (6)
Net Power Supply Costs	\$88	\$2,090	(\$2,003)		\$20,323	\$19,924	\$399
Load (MWh)	26,067	24,989	(1,078)		305,054	296,302	(8,752)
\$/MWh	\$3.36	\$83.65	\$80.29		\$66.62	\$67.24	\$0.62

Current Month:

- (1) See detail on page 7.
- (2) See detail on page 11.
- (3) ISO-NE Transmission over Budget due to higher ISO-NE Transmission rates.
- (4) VELCO Transmission over Budget due to higher 91 VTA Common charges.
- (5) NYISO Transmission over Budget.
- (6) Under Budget due to timing of deliveries (RECs delivered one month early).

YTD:

- (1) See detail on page 7.
- (2) See detail on page 10.
- (3) ISO-NE Transmission over Budget due to higher ISO-NE Transmission rates.
- (4) VELCO Transmission over Budget due to higher 91 VTA Common charges.
- (5) NYISO Transmission over Budget.
- (6) Projected to come in 1% under Budget for entire Fiscal Year due to lower Winooski 1 production.

**Net Power Supply Costs
May - FY 2021**

	(\$000)							
	Current Month				Year-to-Date			
	Budget	Actual	Variance		Budget	Actual	Variance	
<u>FUEL:</u>								
McNeil:								
Fuel Consumed	268	342	(73)	(1)	5,284	5,265	19	(1)
Swanton Yard	29	43	(14)	(1)	478	469	9	(1)
Train Deliveries	61	57	4	(1)	1,005	856	149	(1)
Labor & Other Expenses	78	40	38	(2)	753	547	206	(2)
Total McNeil Fuel	436	481	(45)		7,520	7,137	383	
Gas Turbine	5	4	1	(3)	111	112	(1)	(3)
Total Fuel	441	485	(45)		7,630	7,249	382	

Current Month:

(1) McNeil produced 7,963 MWh (30% over Budget); Woodchip costs (per ton) were 2% under Budget. (p. 9)

(2) Actual labor is based on tonnage consumed by McNeil; budgeted labor is based on personnel/days in the month, thus timing issues for comparative purposes.

(3) GT produced 16 MWh (12% over Budget); GT Fuel price under Budget.

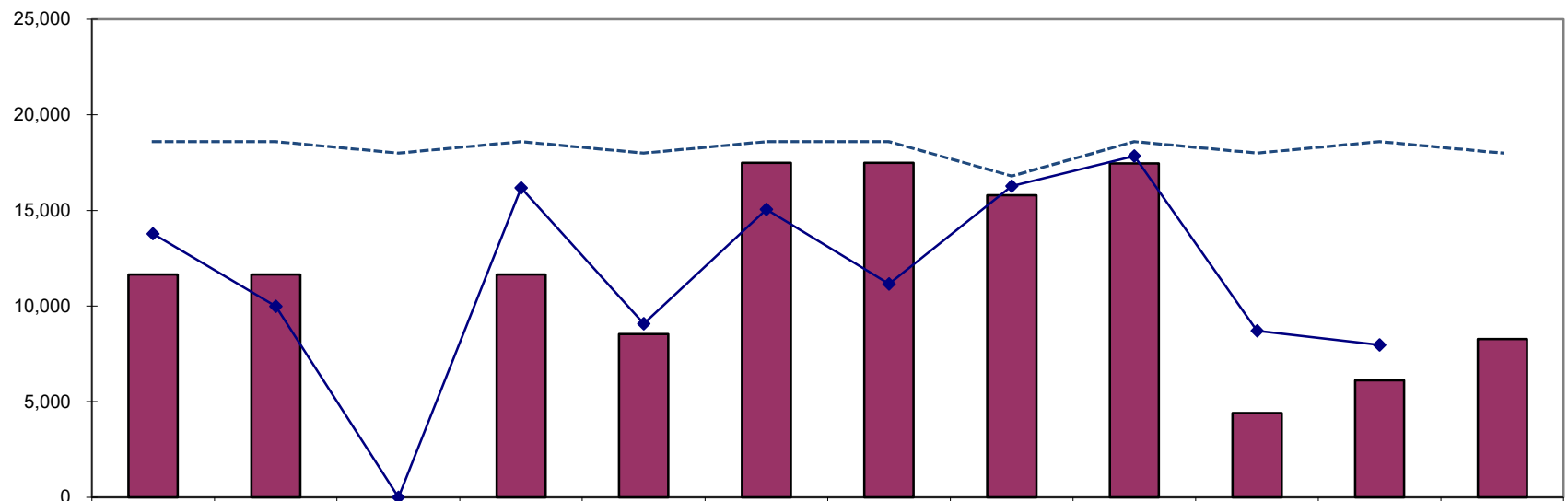
YTD:

(1) McNeil production was 3% over Budget; Woodchip costs (per ton) were 1% under Budget. (p. 9)

(2) See Current Month.

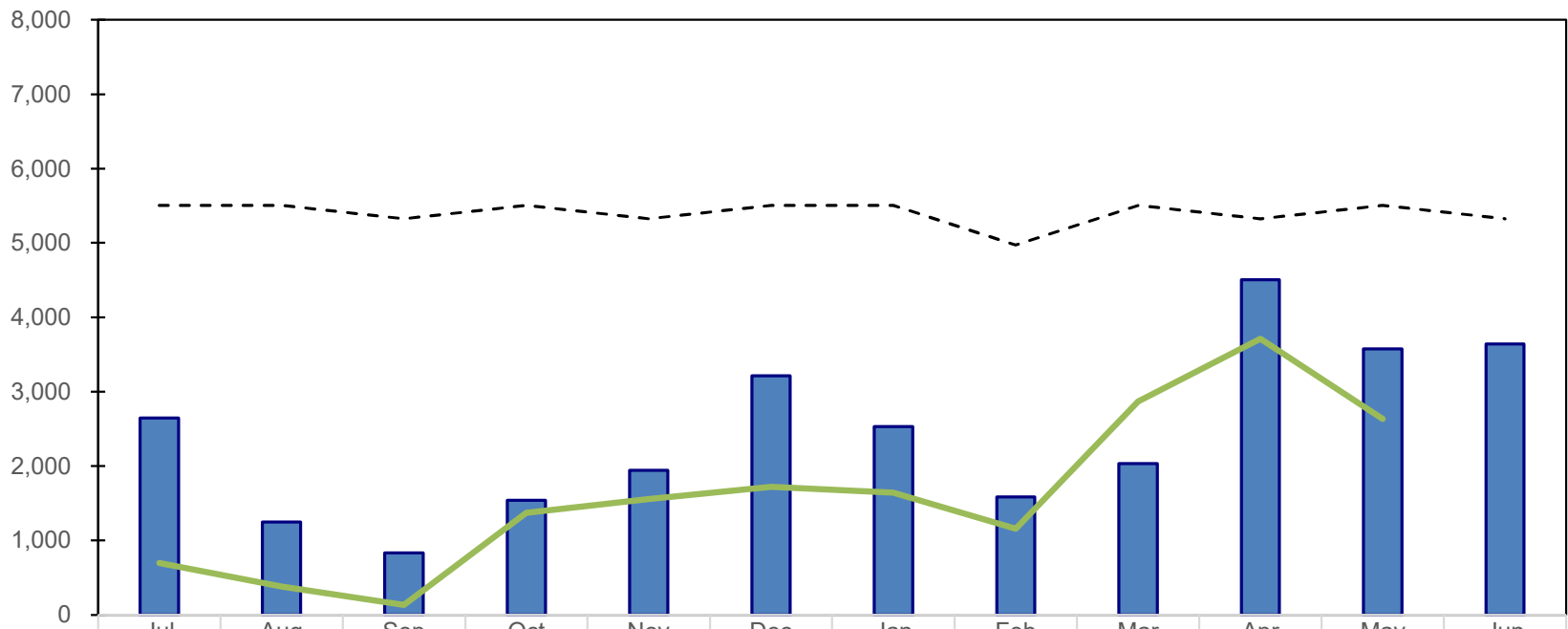
(3) GT produced 474 MWh (54% over Budget) largely due to testing of refurbished Jet A; GT Fuel price under Budget.

**Burlington Electric Department
McNeil Plant - MWH Production (50%)
FY 2021**



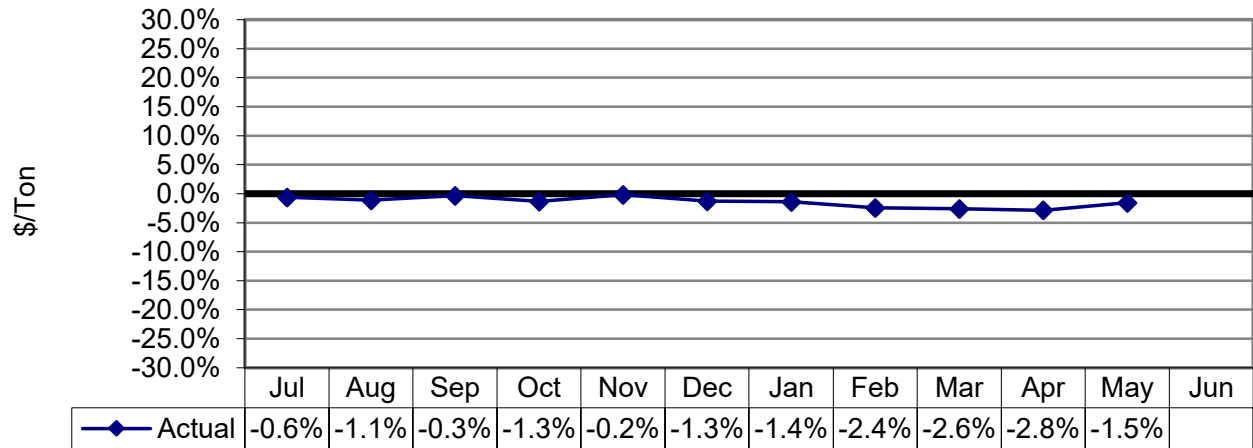
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	11,656	11,656	0	11,656	8,536	17,484	17,484	15,792	17,461	4,400	6,128	8,272
Actual	13,778	9,989	0	16,184	9,076	15,054	11,156	16,275	17,841	8,704	7,963	
Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

**Burlington Electric Department
Winooski One - MWH Production
FY 2021**

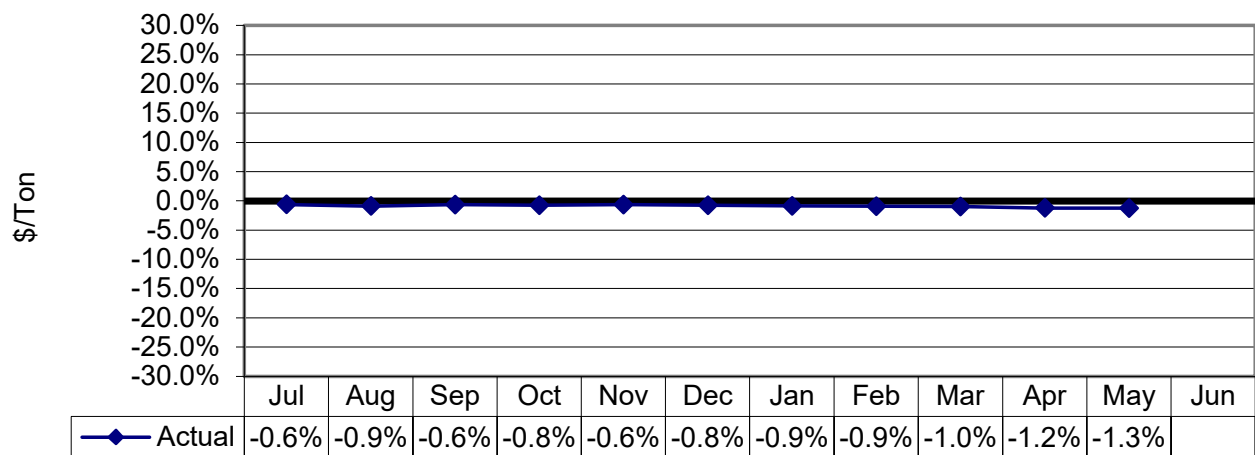


Burlington Electric Department Fiscal Year 2021

Woodchips Price Per Ton Monthly Variance



Woodchips Price Per Ton Year-to-Date Variance



* Wood only. Does not include other costs.

**Net Power Supply Costs
May - FY 2021**

	(\$000)							
	Current Month				Year-to-Date			
	Budget	Actual	Variance		Budget	Actual	Variance	
<u>PURCHASED POWER:</u>								
Non-Energy (capacity)	137	125	12		1,565	1,466	98	
Energy:								
Georgia Mountain Wind	281	158	123	(1)	3,067	2,869	198	(1)
Hancock Wind	235	211	24	(2)	3,063	2,678	386	(2)
VT Wind	240	136	105	(3)	2,567	1,927	640	(3)
Hydro Quebec	242	226	16	(4)	2,192	2,084	108	(4)
Great River Hydro	169	169	0		1,806	1,801	5	
In City Solar Generators	89	106	(18)	(5)	746	768	(22)	
NYPA	7	8	(1)		77	94	(17)	
VEPPI	0	0	0		66	36	30	(5)
ISO Exchange	(61)	(8)	(53)	(6)	(2,019)	(813)	(1,205)	(6)
Velco Exchange	0	(0)	0		0	(5)	5	
Total Energy	1,202	1,006	196		11,565	11,438	127	
Ancillary Charges	(11)	(7)	(4)		(38)	(90)	52	
Miscellaneous	141	41	100	(7)	867	551	316	(7)
Total Purchased Power Expense	1,469	1,165	304		13,959	13,365	594	

Current Month:

- (1) Production 44% under Budget (one turbine out until Fall). Lower CY21 production will result in lower REC revenues in FY22.
(2) Production 4% under Budget. Rate 7% under Budget due to Financial Adjustment.
(3) Production 44% under Budget (researching reason). Lower CY21 production will result in lower REC revenues in FY22.
(4) Rate 7% under Budget.
(5) Production 20% over Budget.
(6) Wind (30%), and Winooski One (26%) production under Budget.
(7) Includes REC replacement purchases which can occur at any point in the FY.

YTD:

- (1) Production 6% under Budget.
(2) Production 4% under Budget. Rate 9% under Budget due to Financial Adjustment.
(3) Production 25% under Budget (researching reason). Lower CY20 production has resulted in lower REC revenues in FY21 and lower CY21 production will result in lower REC revenues in FY22.
(4) Rate 5% under Budget.
(5) Production 43% under Budget.
(6) Wind (12%), and Winooski One (30%) production under Budget. Energy prices under budget.
(7) Includes REC replacement purchases which can occur at any point in the FY.

Burlington Electric Department
Operating and Maintenance Expense by Spending Category
FY 2021 - May YTD

Description	Budget	Actual	Variance	% Variance	*
Labor - Regular	6,865,747	7,122,412	(256,665)	4%	
Labor - Overtime	430,068	345,592	84,476	20%	a
Labor-Temporary	4,000	4,348	(348)	9%	
Labor - Overhead	2,918,314	2,753,078	165,236	6%	b
Outside Services	1,924,181	1,560,434	363,747	19%	c
DSM (rebates & outside services)	1,685,091	1,950,578	(265,487)	16%	d
Materials & Supplies	824,655	643,187	181,468	22%	e
Office Supplies	10,173	3,255	6,918	68%	
Insurance	625,690	580,113	45,577	7%	f
A & G Clearing	(650,197)	(323,696)	(326,501)	50%	
Other - RPS Compliance	371,989	577,564	(205,575)	55%	
Other	2,193,587	1,587,921	605,666	28%	g
Operating and Maintenance Expense	17,203,297	16,804,786	398,511	2%	

(a) Areas lower than budget; Distribution (\$76,400), System Operations (\$15,700), W1 Hydro (\$10,800); offset by areas higher than budget; McNeil Plant, \$24,100.

(b) See page 13.

(c) Timing and proactive recissions/expense reductions within various areas including equipment maintenance & technical at McNeil Plant (\$39,100), Winooski One Hydro (\$156,500) and buildings & grounds (\$37,800).

(d) Projects are driven almost entirely by customer decisions. The budget is based on information on specific projects or seasonal variations; otherwise the amount is spread evenly across the year.

(e) Timing; McNeil Plant (\$14,800), Winooski One (\$37,700), Distribution (\$50,7000) Safety (\$16,400).

(f) The credit for A&G ("Admin and General Expenses") charged to Capital projects was less than planned.

(g) Timing: various areas are less than budget including; Training/Education (\$105,000), Transportation Clearing (\$24,600), Building Clearing, (\$68,300), Maintenance (\$43,300), Advertising (\$32,700) and Uncollectible Accounts (\$96,900).

**Burlington Electric Department
Budget vs Actual Spending Analysis
FY 2021 - May YTD**

Labor - Overhead	Budget	(000's)		%	
		Actual	Variance		
Pension	\$1,209	\$1,190	\$18	2%	(a)
Medical Insurance	1,681	1,380	301	18%	(b)
Social Security Taxes	822	755	66	8%	(a)
Workers Compensation Ins.	390	322	68	17%	(b)
Dental Insurance	85	79	6	8%	(b)
Life Insurance	17	11	5	31%	(b)
	\$4,203	\$3,738	\$464	11%	

Rates Table:	Budget
<i>Pension</i>	12.02%
<i>Social Security</i>	7.65%

(a) Function of labor cost.

Pension amount for the year provided by the City during budget development. Needs to be verified.

(b) Budget provided by the City.

Net Income
FY 2021 - May (\$000)

		Current Month			Year - To - Date		
	Ref	Budget	Actual	Variance	Budget	Actual	Variance
Operating Revenues							
Sales to Customers	p.3	3,398	3,293	(106)	41,975	40,593	(1,382)
Other Revenues		262	217	(45) (a)	3,420	2,957	(463) (a)
Total Operating Revenues		3,660	3,509	(151)	45,395	43,550	(1,845)
Net Power Supply	p.6	88	2,090	(2,002)	20,323	19,924	399
Operating Expenses							
Operating and Maintenance	p.11	1,394	1,439	(45)	17,204	16,805	399
Depreciation & Amortization		436	450	(14)	4,795	4,881	(86)
Gain/Loss on Disp of Plant		0	0	0	346	228	118 (b)
Revenue Taxes		49	32	18	491	471	19
Property Taxes Winooski One		40	40	(0)	438	439	(2)
Payment In Lieu of Taxes		226	227	(1)	2,486	2,472	14
Total Operating Expenses		2,145	2,187	(42)	25,759	25,297	462
Other Income and Deductions							
Interest/Investment Income		15	5	(9)	172	77	(95)
Dividends		360	360	(0)	3,896	3,933	37
Customer Contributions		30	0	(30) (b)	1,166	644	(523) (c)
Other		0	7	7	73	591	519 (d)
Total Other Income & Deductions		405	373	(32)	5,307	5,245	(61)
Interest Expense		212	201	11	2,308	2,254	54
Net Income		1,620	(596)	(2,216)	2,312	1,320	(992)

Current Month:

(a) Energy Efficiency Program cost reimbursement was lower than planned, \$34,400. Also, miscellaneous revenue down \$10,800.

(b) Budget assumed contributions for Champlain Parkway, \$27,700 and Level 2 EV chargers, \$1,700.

Year - To - Date:

(a) Energy Efficiency Program cost reimbursement lower than planned, \$375,400. Also, miscellaneous revenues down \$87,200.

(b) Budget included asset retirements of \$196,000 for Operating and \$150,000 for McNeil. Actual includes asset retirements for Operating of \$215,800 and \$12,500 for McNeil.

(c) Budget assumed contributions for Champlain Parkway, \$554,800, UVM OBF, \$212,800, UVM Larner College of Medicine (LCOM), \$353,200, Level 2 EV chargers, \$32,000 and UVM Athletic facility, \$8,200. Actual includes OBF, \$212,800, LCOM, \$227,400 and other billable projects.

(d) Includes Local Government Expense Reimbursement ("LGER") grant and one-time hazard pay reimbursement.

**Burlington Electric Department
Capital Projects - FY21**

	\$000			
	Full Year Budget	Budget	May Actual	Variance
McNeil (BED 50% Share)				
Economizer Replacement	364	364	389	(25)
Backup Boiler Feed Pump/Insurance	280	280	11	269 (a)
Boiler Gate Overhaul	200	200	280	(80) (b)
ESP Mechanical Field Rebuild	200	200	188	12
Routine Station Improvements	108	108	74	34
North Cooling Tower Sprinkler Replacement	38	38	24	14
DC Lube Oil Pump Contractor Upgrade/Insurance	37	37	26	11
Augers Replaced	15	15	10	5
Rooftop Fall Protection	13	13	14	(1)
Safety Valves (1.5, 2.5, 3.5, DA & Secondary)	8	8	1	7
IT Forward Upgrades (McNeil)	5	2	0	2
Other	5	5	10	(4) (c)
Total McNeil Plant	1,271	1,269	1,025	243

(a) In progress. Only half of the project is expected to hit this fiscal year.

(b) Additional as-found work, reallocated funds from other projects/expense budget.

(c) Budget includes the purchase of 4 AED's, portable radio upgrades and farmhouse furniture/equipment. Actual includes \$7,000 for Chemical Feed Pump and AED's, \$2,600.

Hydro Production	164	164	232	(68) (a)
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(a) Budget includes controls upgrade, \$109,400 vs actual of \$205,200.

Gas Turbine	505	505	568	(63) (a)
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(a) Budget includes "A" major overhaul, \$425,700 vs actual of \$496,300.

Total Production Plant	1,940	1,938	1,825	113
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Other

Packetized Energy Phase 2	54	51	3	48 (a)
Public Level 2 EV Charge	52	50	49	0
Public Level 2 EV Charge (CAFC)	(34)	(32)		(32)
Policy & Planning Research & Dev	10	10		10
Total Other	83	79	53	26

(a) Delayed due to COVID.

Transmission Plant

VT Transco Investment	1,106	1,106	1,074	31
Total Transmission Plant	1,106	1,106	1,074	31

**Burlington Electric Department
Capital Projects - FY21**

	\$000				
	Full Year Budget	Budget	May Actual	Variance	
Distribution Plant-General					
Aerial					
1L1 P2832 to P3650 Reconductor	176	176	91	85	(a)
1L1 P2824 to P2832 Reconductor	142	142	78	64	(a)
1L4 P3650 to P3131 Reconductor			53	(53)	(b)
Replace Condemned Poles	109	98	49	49	
Rebuild 3L4 Long Spans	63	63	18	45	
Rebuild 1L4 Long Spans	29	29	10	19	
Rebuild 1L4 Long Spans PH2			96	(96)	(b)
Ferguson Ave, Wells St & Richardson St RB	22	22	2	20	
Blodgett Redevelopment			28	(28)	(c)
Total Aerial	542	531	426	105	

(a) Project complete and lower than planned.

(b) New project.

(c) Prior year project.

Underground

Airport SA02 Circuit Rebuild	428	385	234	151	(a)
Replace UG Switch (821,401,727,349,233)	215	215	7	207	(b)
Replace UG Switch (731,736,760,761)	186	186	128	58	(c)
Replace system at Living & Learning UVM	118	118	99	19	(d)
Replace UG Switch (721,722,743,702,703,705)	43	21	4	17	(e)
Replace Switch 801D with 801s			15	(15)	
Total Underground	989	925	488	437	

(a) This project is projected to be \$131,000 less than planned due to civil work much lower than estimate. Budgeted Sep-Oct & May-Jun.

(b) This project is projected to be \$5,500 less than planned. Switch lower than planned. Budgeted Oct-Nov.

(c) This project is projected to be \$10,200 less than planned. Switch lower than planned. Budgeted Apr-May.

(d) This project is complete and less than planned.

(e) This project was completed in FY2020. Small amount in FY21 due to finishing work. Budgeted May-Jun.

**Burlington Electric Department
Capital Projects - FY21**

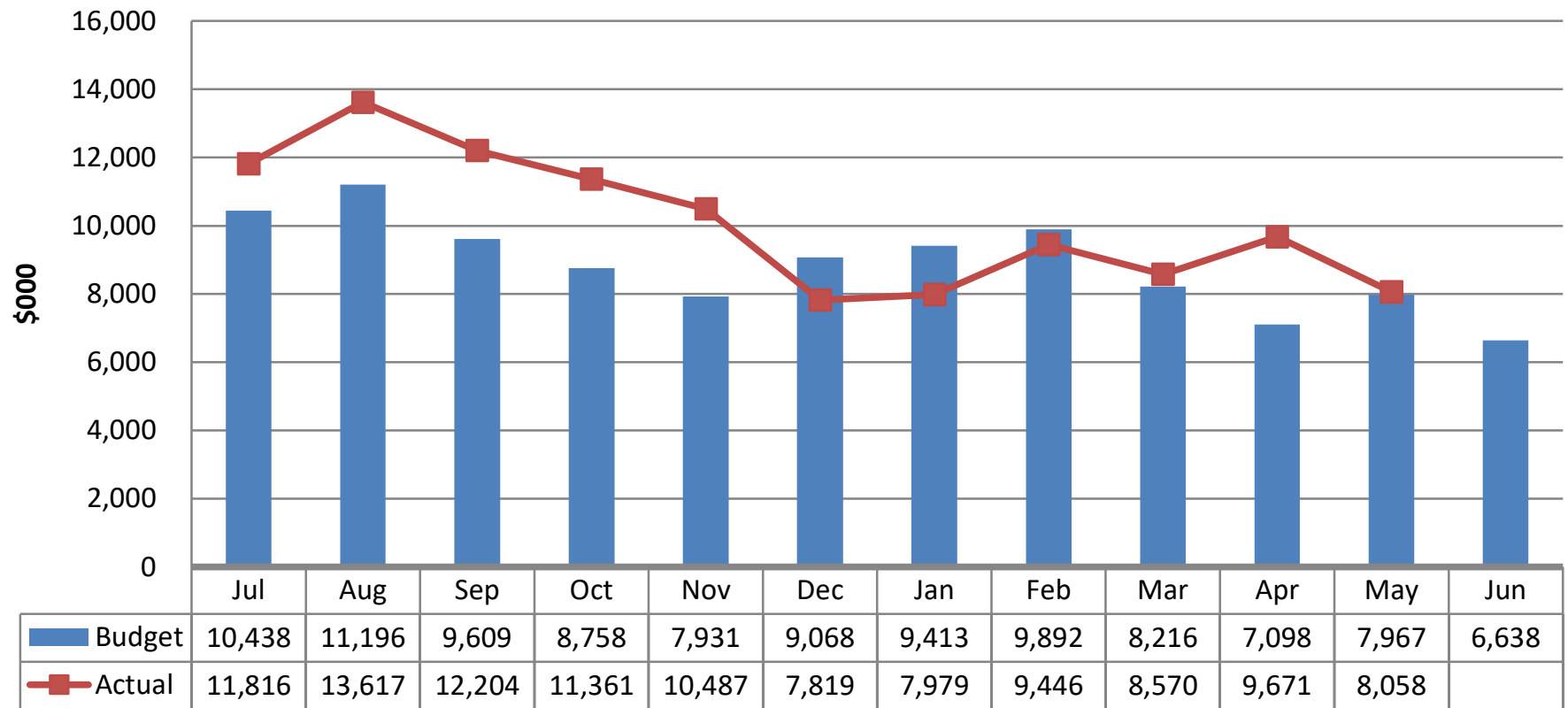
	\$000			
	Full Year Budget	Budget	May Actual	Variance
Customer Driven/City Projects				
Champlain Parkway C6	620	620		620
Champlain Parkway C6 (CAFC)	(555)	(555)		(555)
UVM-Larner College of Medicine (LCOM)	353	353	31	322
UVM-Larner College of Medicine (LCOM) (CAFC)	(353)	(353)	(227)	(126)
UVM New Athletic Facility	8	8	18	(10)
UVM New Athletic Facility (CAFC)	(8)	(8)		(8)
UVM New Athletic Facility (CAFC) (OBF)	(213)	(213)	(213)	(0)
Total Underground	(148)	(148)	(391)	243
Other				
Distribution Transformers	264	264	74	190 (a)
SCADA Virtualization	98	98	41	57
Distribution System Efficiency Improvements	71	71	37	33 (b)
Replace Overloaded Transformers	54	46	18	28 (c)
Communication Equipment Emergency Repair	37	37	31	6
Backup control center -SCADA	10	10		10
Purchase Spare GT2/3 Breaker			21	(21)
Other			2	(2)
Total Other	535	527	224	303
Total Distribution Plant-General	1,918	1,835	747	1,087
 (a) This project is projected to be \$135,000 less than planned due to shipment delays.				
(b) This project is projected to be less than planned. Budgeted Jul-Oct.				
(c) This project is projected to be less than planned. Budgeted Jul-Oct & Apr-Jun.				
Distribution Plant - Blanket				
Lighting	280	265	201	65
Lighting (Rebate)	(6)	(5)		(5)
Underground	186	165	207	(42)
Underground (CAFC)			(177)	177
Aerial	107	98	96	2
Aerial (CAFC)			(26)	26
Meters	94	93	27	65
Replace Corroded Vista CT's / PT's	20	20	14	6
Tools & Equipment - Distribution/Technicians	39	36	16	20
Substation Maintenance	20	20	1	19
Substation-Temperature Alarms	8	8		8
Total Distribution Plant - Blanket	748	700	358	342
Total Distribution Plant	2,666	2,534	1,105	1,429

**Burlington Electric Department
Capital Projects - FY21**

	\$000			
	Full Year Budget	Budget	May Actual	Variance
General Plant				
Computer Equipment/Software	2,018	1,879	725	1,154 (a)
Vehicle Replacement	40	40	0	40
Buildings & Grounds	102	102	26	77 (b)
Other	6	6	3	4 (c)
Total General Plant	2,167	2,028	754	1,274
<i>(a) Budget includes IT Forward, \$1,534,000, Data Center Upgrades, \$300,000, Desktop/Laptop purchases, \$20,000 and AMI Cell Relay replacement, \$19,600. Actual includes IT Forward, \$435,800, Equipment for the Data Center, \$210,000, smart grid outage router, \$12,000, and other.</i>				
<i>(b) Budget includes area upgrades, \$59,000, truck bay air system, \$15,000, auto flush for lavatory, \$10,500, security camera replacements, \$13,000 and signage, \$5,000. Actual includes truck bay air system and auto flush.</i>				
<i>(c) Budget includes AED purchase for Pine Street. Actual includes fogger for COVID.</i>				
Sub-Total Plant	\$7,962	\$7,684	\$4,811	\$2,873
Add: CAFC* reclass to "Other Income"	1,168	1,166	644	523
Total Plant	\$9,130	\$8,851	\$5,455	\$3,396

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2021 Monthly Ending Balance



BURLINGTON ELECTRIC DEPARTMENT 2021–22 STRATEGIC DIRECTION

MISSION

To serve the energy needs of our customers in a safe, reliable, affordable, sustainable, and socially responsible manner.

VALUES

Safety, Reliability, Community, Innovation

2030 VISION

Make Burlington a Net Zero Energy city by eliminating fossil fuel usage across the electric, thermal, and ground transportation sectors by strategically electrifying, managing demand, realizing efficiency gains, and expanding local renewable generation while increasing system resilience.

STRATEGIC OBJECTIVES

Engage Customers and Community

1. Focus on customer first-call resolution to provide exceptional customer care
2. Better educate and engage customers on our Net Zero Energy vision through all communications channels, with a focus on web and social media
3. Ensure all programs are equitable and accessible, with a priority given to low-to-moderate income, rental, Black, Indigenous, and People of Color (BIPOC), immigrant, and refugee populations
4. Evolve energy efficiency programs to drive deeper greenhouse gas emissions reductions, complement strategic electrification efforts, help manage peak demand, and improve community resilience and environmental health

5. Proactively seek customer input, including through new community ambassador program, and listen to and hear their needs and incorporate their input into program design

Strengthen Reliability

1. Maintain five-year Distribution System and Generation construction plans to accommodate potential load increases due to the Net Zero Energy goals, and design and construct projects to continue to improve safety, reliability, and efficiency
2. Continue to follow maintenance plans for McNeil Generating Station, Winooski One Hydro, Gas Turbine, and the Distribution System
3. Take steps to ensure reliable operations through succession planning
4. Ensure consistent fuel supply availability at McNeil based on annual operational strategy and procurement procedures
5. Implement Outage Management System (OMS) and grid analytics to improve response to system outages, system reliability, and efficiency

Invest in our People, Processes, and Technology

1. Attract, develop, and retain a diverse workforce with the knowledge, skills, and ability to support BED's Net Zero vision and strategic objectives
2. Develop a culture of integrity, safety, inclusion, innovation, teamwork, and continuous learning and improvement
3. Continually improve internal processes to design and deliver innovative programs and services, maximize operational efficiency and effectiveness, and optimize use of data to inform decision-making
4. Plan and invest in the technology infrastructure necessary to support BED's mission, vision, and strategic priorities, including multi-year replacement of core business systems
5. Implement remote work flexibility, as permitted under City policy, to lead by example in reducing vehicle miles traveled and emissions

Innovate to Reach Net Zero Energy

1. Advance district energy, battery storage projects, and local renewable energy production including customer and community-based projects
2. Improve and expand automated demand response capability, with focus on EV charging and thermal, and implement appropriate end-use technologies to manage loads
3. Advance additional dynamic and creative rates to achieve Net Zero Energy goal
4. Continue to track and report to the community on progress toward the Net Zero Energy Roadmap goal
5. Provide clean and affordable transportation fuel through renewable electricity, and invest in and encourage use of the necessary infrastructure to serve customers across all modes of transportation, including electric bikes, electric vehicles, and electric transit buses
6. Actively participate in City policy processes aimed at reducing greenhouse gas emissions in the ground transportation and building sectors
7. Build and maximize use of partnerships that provide unique value and opportunities to make progress toward Net Zero Energy at a more rapid pace and greater scale

8. Maintain and invest in quality facilities and use them to pilot and showcase new technologies that advance Net Zero Energy

Manage Budget and Risks Responsibly

1. Create financially responsible and sustainable budgets that balance the need for stable rates, investment in core infrastructure, and strong credit rating factors
2. Develop five-year debt financing plan for Net Zero Energy to support electrification while mitigating upward rate pressure
3. Ensure timely and diligent compliance with risk, safety, environmental, and other legal and regulatory standards
4. Efficiently and effectively manage procurement of goods and services
5. Enhance cybersecurity capabilities