

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

SCOTT MOODY, CHAIR
BETHANY WHITAKER, VICE CHAIR
LARA BONN
JIM CHAGNON
ROBERT HERENDEEN


To be held at Burlington Electric Department (and)
Via Microsoft Teams
[+1 802-489-6254](tel:+18024896254)

Conference ID: 279 885 253 122#

AGENDA
Regular Meeting of the Board of Electric Commissioners
Wednesday, September 13, 2023– 5:30 p.m.

- | | |
|---|----------------|
| 1. Agenda | 5:30 (5 min.) |
| 2. Minutes of the July 12, 2023 Meeting | 5:35 (5 min.) |
| 3. Public Forum | 5:40 (5 min.) |
| 4. Commissioners' Corner (Discussion) | 5:45 (5 min.) |
| 5. GM Update (Oral Update) | 5:50 (10min.) |
| 6. Financials: FY23 July | 6:00 (10 min.) |
| 7. District Heat Update: (Discussion): D. Springer | 6:10 (10 min.) |
| 8. Public EV Charger Deployment Plan (Discussion):
P. Nadeau /E. Stebbins-Wheelock | 6:20 (15 min.) |
| 9. Cybersecurity Update (Discussion): E. Ferland | 6:35 (10 min.) |
| 10. IRP Update (Discussion): J. Gibbons | 6:45 (10 min.) |
| 11. Commissioners' Check-In | 6:55 (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: 295 615 914#

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

TABLE OF CONTENTS
(for 09/13/23 meeting)

***** FYI *****

- Minutes of the July 12, 2023 Meeting
- August Monthly Report
- Dashboard
- FY23 July Financials

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



To: Burlington Board of Electric Commissioners
From: Darren Springer, General Manager
Date: September 8, 2023
Subject: **August 2023 Highlights of Department Activities**

General Manager

- **NZE Festival** – NZE Festival 2023 is coming up on Sept. 23 (rain date Sept. 24). We are excited to host this second annual event for the community, with fossil-fuel free food trucks, City Departments and the City EV fleet, touch-a-truck with our new electric bucket truck, EV test drives and e-bike test rides, solar and heat pump and other technology partner vendors, CHAMP from the Lake Monsters, the VEEP education program, an e-bike giveaway sponsored by VSECU, a e-lawn trimmer giveaway sponsored by Ace, DJ and live music, and our first-ever NZE award. Please plan to join us!
- **District Energy** – Discussions on district energy continue, with tentatively scheduled work session at City Council for Sept. 18, and NPA meeting presentations throughout September. A webinar is scheduled for Sept. 12th, at 11am, to learn from other communities' experience with biomass district energy, and new Q&A documents have posted to www.burlingtonelectric.com/mcneil.
- **Electric Bucket Truck** – BED proudly put in service the state's first electric bucket truck, which is now operating as part of our fleet for our line crew. News coverage - <https://www.mynbc5.com/article/burlington-electric-dept-launches-new-ev-bucket-truck/44904191>; <https://www.wcax.com/2023/08/24/city-burlington-now-has-vermonts-1st-all-electric-bucket-truck/>; <https://www.mychamplainvalley.com/news/local-news/burlington-rolls-out-an-all-electric-bucket-truck/>
- **Carbon Fee Ordinance** – The carbon fee ordinance advanced from TEUC Committee on 8/15, and will next be reviewed by Ordinance Committee, date TBD.
- **Defeat the Peak** – We have had two successful defeat the peak runs so far this summer, with partners Old Spokes Home and Intervale Center, and a third upcoming with Age Well (as of 9/7).
- **FY23 Rate Case** – Oral arguments took place on 9/7 on BED's FY23 rate case regarding the Moran Frame cost recovery. Department of Public Service supports cost recovery, PUC Counsel has opposed, and Commission heard arguments from Bill Ellis on behalf of BED.

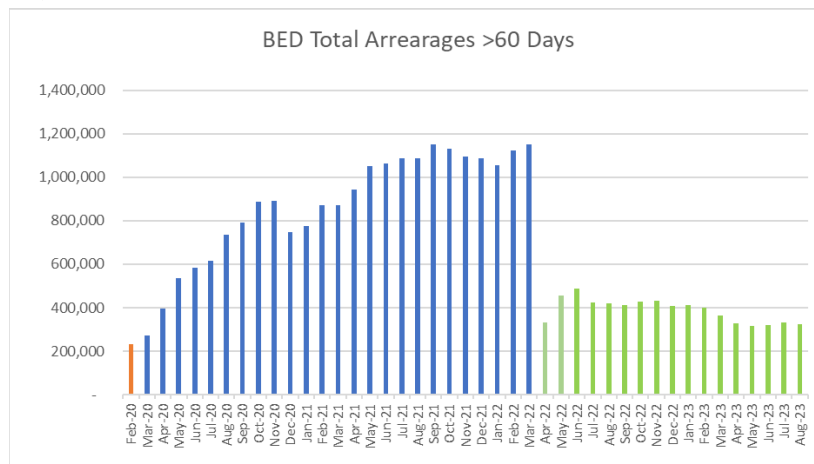
Center for Innovation - Emily Stebbins-Wheelock

- Acting supervisor of Finance & Accounting and Billing staff.
- Visited VELCO and met with their IT leadership team.

- Coordinating efforts to track and respond to federal and state funding opportunities.
 - Awarded \$4,000 Municipal Energy Resilience Planning mini-grant from State Department of Buildings & General Services to fund translation of a flyer about BED’s Energy Assistance Program into multiple languages.
 - As joint applicant with VPPSA and WEC, awarded \$1,157,000 for flexible load management software, \$2,064,000 for low/moderate income battery storage, and \$890,000 for municipal battery storage projects through PSD Energy Storage Access Program.
- Sponsoring effort to increase Energy Assistance Program enrollment.
- Overseeing 2022 and 2023 rate case development/implementation.
- Continued sponsorship of IT Forward implementations.

Finance & Billing

- Finalizing FY23 year-end and preparing deliverables for the audit.
- Updating 5-year budget model and IRP financial model.
- 2023 rate increase implementation.
- Supporting MDMS Phase 2 implementation to support EV charging integration and implement grid analytics modules.
- Pursuing FEMA reimbursement grant for July flooding damage at Winooski One.
- Assessing new GASB Standard 96-Subscription Information Technology Arrangements for implementation in FY23.
- Monitoring requirements for grant reimbursement for new electric bucket truck.
- Monitoring receivables in response to COVID19: as of August 31, 2023, BED’s total non-current receivables had increased \$126,966 or 21% compared to the end of July 2023. Arrearages >60 days were \$323,103.



Information Services

- As noted in July’s report, BED’s new customer portal went live on August 1. Post go-live tasks are still in progress. Portal test environment is in progress. The portal has been well received by internal staff and BED customers.
- Significant involvement in the ADMS demo and selection process with the Engineering team.

- The project team kicked off MDMS phase two on August 29. Discovery will start this week.
- Requirements work for the IT Forward CIS replacement is underway.
- Ongoing phishing and security testing of our users.

Policy & Planning

- Oral argument in 2022 rate case scheduled with PUC for September 7.
- UVM interns Alec Benedict and Jack McTasney finished their portion of the EV/Heat Pump Project; met with UVM intern coordinators.
- 2023 rate increase implementation.
- Filed comments on proposed flood-related disconnection moratorium.
- Participating in ISO-NE winter forward reserve auction.
- South Forty Solar battery interconnection request.
- Meetings with Motor and Energy Sage.
- Working with Billing on Chargepoint-Compass MDMS integration for EV rate.
- Attended 3 SCADA/ADMS/DERMS demos to review DERMS functionality.
- David Cressy, a full semester legal intern from VLS, began working with Amber Widmayer.
- Participated in PSD stakeholder advisory group surveys and questions on RES revisions.
- DES/TEPF fund transfer request pending – provided responses to public comments.
- Removal of final Mello devices proceeding.
- Received extension to file IRP by November 1, 2023.
- Winooski One Hydro Relicensing kickoff and pre-application document in process.
- Solar Test Center installations commenced.
- Prosumer Grid DeltaClimeVT pilot contracted and work started.

Sustainability & Workforce Development

- Equity and Project Analyst continued outreach to stakeholder groups and community members, including Family Room, BHA's Bobbin Mill, and King Street Laundry.
- Distributed fliers on home energy savings and reduced electric rate for low-income customers to community partners, including CVOEO. Finalizing script for in-house video on reading one's utility bill.
- Equity and Project Analyst participated on Vermont Council of Rural Development's Leadership Summit and spoke on energy and equity panel with Green Mountain Power and Efficiency Vermont staff.
- Worked with Communications & Technology Specialist, Adam Rabin, to edit and release new podcast episodes, including with Charles Dillard, Principal Planner, City of Burlington on Transportation Demand Management and GM Springer and Regulatory Specialist Amber Widmayer on 2023 VT Legislative Session.
- Orchestrated August staff Lunch and Learn featuring Policy and Resource Planning's summer fellows, Alec Benedict, and Jack McTasney, on expanding access to our electric vehicle rate through smart plugs – which allow for remote-access – and vehicle telematics.

- Attended 2030 District Steering Executive team meeting and continued planning for national 2030 District Summit in Burlington, October 17-19. Met with REV team for REV 2023 Conference planning, including sponsorship outreach.
- Continued outreach and coordination efforts for Net Zero Energy Festival, including orchestration of EV ride and drive co-hosted by Sierra Club and NZE Community Awards.
- Submitted VLITE quarterly report on CarShareVT and CHT's electric transportation efforts.
- Joined statewide Button Up campaign kick-off call and facilitated conversation with BED and VGS on Button Up 2023 joint activities, including the coordination of possible Energy Clinic events at the Family Room and Franklin Square.
- Met with BED colleagues on support for and collaboration with CVOEO and Energy Assistance Program enrollment.
- Joined the Vermont Council on World Affairs' "Diplomacy Begins Here" conference planning committee. Presented on BED's NZE by 2030 goal at September 21 conference and hosted tours of BED for 70 conference participants.
- In conjunction with BED's Residential Energy Specialist, coordinated a visit for members of the City of Burlington's Planning Department to Cathedral Square Corporation's Elm Place property in Milton to learn about passive house principles and construction.
- Submitted American Public Power Association DEED proposal to fund the creation of 4 videos with the Vermont Language Justice Project on topics of relevance to BED's immigrant and refugee community members.
- Attended the Transportation Energy and Utility Committee meeting re building electrification ordinance and carbon impact pollution fee.

Center for Safety and Risk Management – Paul Alexander

Safety

- Danger Tree Analysis – Met with GMP and other state utilities. Passed onto crews for mutual aid work.
- Conducted monthly inspection of fire extinguisher inspections for Pine Street.
- Conducted Operational & Generation Field Audits.
- Completed weekly OSHA 300 reporting.
- Training days completed of "Injured Worker" extraction from GT Fuel tank room. Participants are BFD and BED Generation personnel.

Environmental

- Completed bi-annual wastewater sampling.
- Conducted outage planning.
- Completed hazmat shipping of 13 junk transformers.
- Conducted analyzer tuning and maintenance at the hydro station.

Risk Management

- New Claims Investigations (3 total: 1 property, 1 auto, 1 power related).
- Conducted tailboard for transformer (14) pick up at 585 Pine.
- Coordinated and attend AIG sponsored tour/survey of W1H and GT.

- Reviewed contractor's T&C for W1H recertification.
- Respond to ISO-NE cold weather NERC alert request ("n/a").
- Scheduled/relay Property/B&M dates for H&B.
- Revised Electric Avenue 2-way traffic "agreement" and send to 3rd parties.
- Attended Barge Canal historical review with legal (ML&S) re: QSLC.

Purchasing/General Services

- Worked on getting the new chargers installed for bucket truck.
- Watched with the state the destruction per the agreement of the old bucket truck.
- Working on securing the fence installation for the new test center solar array at McNeil.
- Put out RFPs for the McNeil Fall shutdown.

Center for Operations & Reliability – Munir Kasti

Engineering & Operations

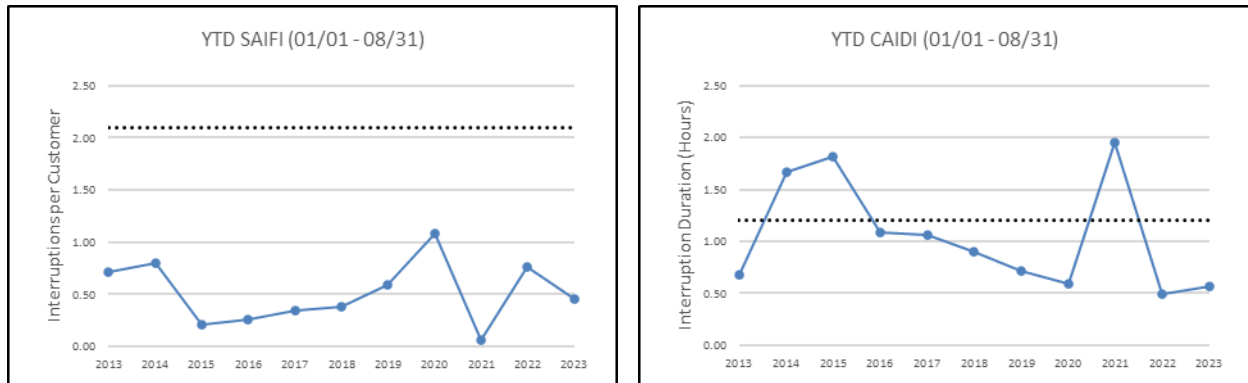
- Completed interviews for Associate SCADA Engineer.
- Completed streetlighting design for Great Streets – Main Street project.
- Started design on replacement of underground distribution on Summit Ridge.
- Continued pole replacement project to address condemned poles identified in FY23 pole inspections.
- Completed the installation of new streetlights on North Avenue near Cambrian Rise.
- Completed work on temporary power feed to City Place project.
- Issued revised draft of the distribution chapter of the 2023 BED Integrated Resource Plan (IRP) to Public Service Board.
- Started civil work related to the 3-phase upgrade on Ethan Allen Parkway.
- Started design of underground replacement on Battery Street.
- Finished primary work for new service to 15 Hungerford Terrace. Waiting on customer for energization.
- Installed and energized a new 3-phase pad mount transformer and 3-phase underground primary for a new service at 157 South Champlain Street.
- Issued design for temporary relocation of power lines on Lakeside Avenue to accommodate Champlain Parkway civil work. Crews are currently working to underground portions of Home Avenue and Lakeside Avenue to continue Champlain Parkway.
- Issued design for new service to 50 Mansfield Avenue to line crews.
- Issued design for new service to 20 Crowley Street to line crews.
- Issued estimate for new service related to car charging at UVM's 284 East Avenue location.
- Issued estimate for new service related to car charging at the new Burlington High School and removed two pad-mount transformers to assist with the demolition of the old high school building.
- Issued estimate for new service to feed Electric Bus charging at GMTA's bus terminal on Industrial Parkway.
- Completed 27 service appointments for BED customers and responded to 57 trouble calls.

- BED's new all-electric bucket truck has arrived and is out working in the field. It has been named C-0 for its zero emissions.
- Engineering continues to lead the RFP process for selecting a vendor to replace the aging SCADA system and install an Advanced Distribution Management System (ADMS), providing modern-day tools for our operators to manage the grid and better respond to outages. Potential vendors have been narrowed down to two solutions which continue to be vetted to determine who will be the best partner with BED for this project.
- Developed an RFP for the acquisition of a new Video Display Wall to be installed in the new Dispatch Operations room, currently under construction. The RFP is on track to be posted mid-September.

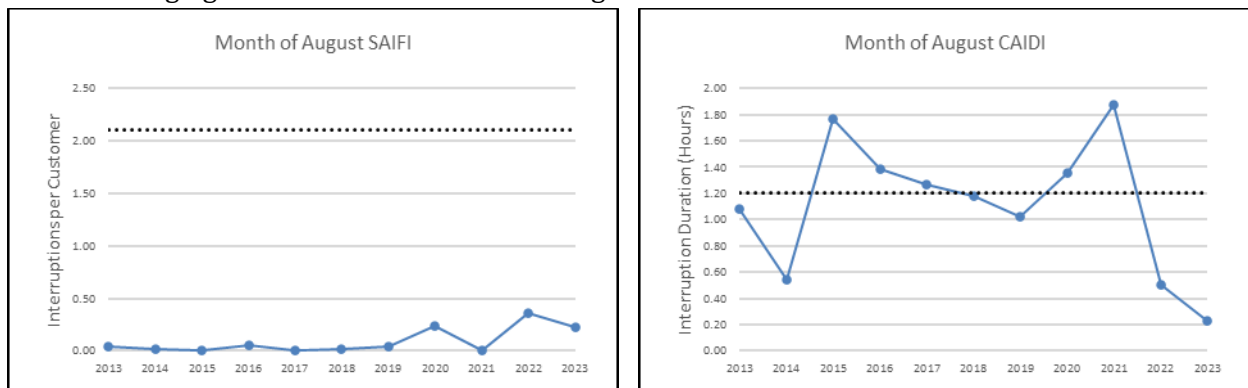
SAIFI & CAIDI Outage Metrics:

BED's distribution system experienced 9 outages in August 2023 (4 unscheduled and 5 scheduled). BED's SAIFI for the Month of August was 0.23 interruptions per customer and CAIDI was 0.23 hours per interruption. BED's YTD SAIFI is 0.45 interruptions per customer and YTD CAIDI is 0.57 hours per interruption.

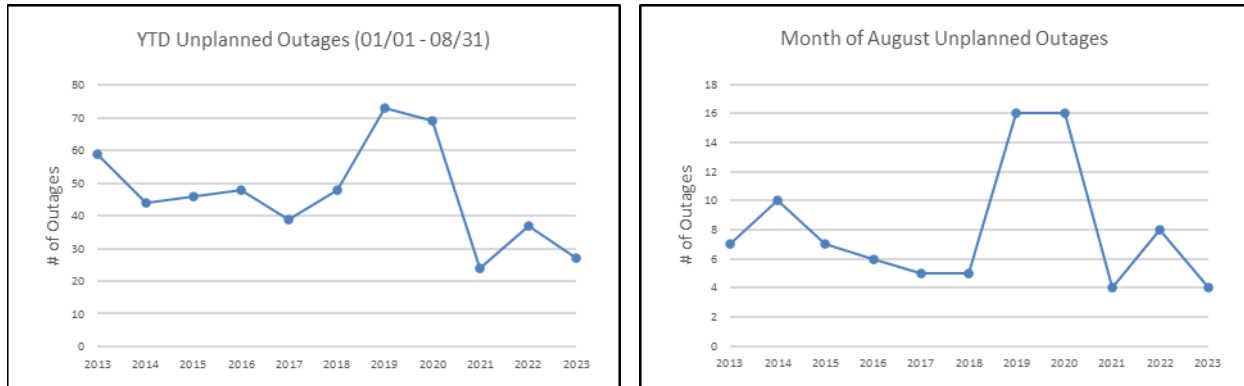
The following figure shows BED's historical YTD SAIFI and CAIDI:



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



The following figure shows BED's historical Unplanned Outages:



Generation

McNeil Generating Station

Month Generation: 16707 MWh
 YTD Generation: 149541 MWh
 Month Capacity Factor: 44.91%
 Month Availability: 98.98%
 Hours of Operation: 352.17 hours

Routine maintenance, preventative maintenance, and a few process improvement projects were conducted at McNeil in August. The Continuous Emissions Monitoring system (CEMs) upgrade began and a new Yard Worker has been hired, who started on August 30th.

Winooski One Hydroelectric Station

Monthly Generation: 4,068.47 (294% of average)
 YTD Generation: 24,538.99 (116% of average)
 Month Capacity Factor: 73.9%
 Annual Capacity Factor: 56.86%
 Month Availability: 99%

Routine maintenance, preventative maintenance, and a few process improvement projects were conducted at Winooski One in August. Flood clean-up efforts and projects also occurred. The Federal Energy Regulatory Commission (FERC) re-licensing process has started and will be continuing for the next couple of years.

Burlington Gas Turbine

Month Generation: 61.83 MWh
 YTD Generation: 74.7 MWh
 Month Capacity Factor: 0.43%
 Month Availability: 20.56%
 Hours of Operation Unit A: 5.3

Hours of Operation Unit B: 4.8

The asset was placed back in service at a reduction this month. Issues are still being addressed with the B jet. A jet is available at 9 MW. B jet is decoupled as issues with the fuel system and miscellaneous components are repaired.

Solar (Airport 499 kW)

Month Generation: 68 MWh (-11% from previous year)
 YTD Generation: 433 MWh
 Month Capacity Factor: 18%
 Month Availability: 100%

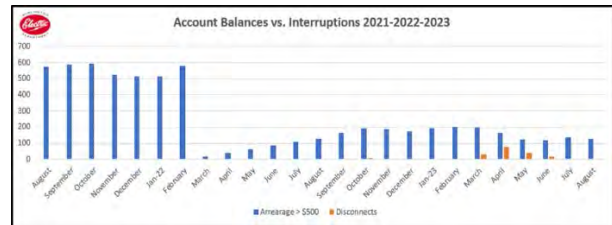
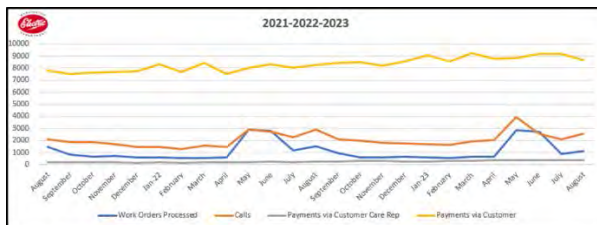
Solar (Pine Street 107 kW)

Month Generation: 13 MWh (-12% from previous year)
 YTD Generation: 82 MWh
 Month Capacity Factor: 16%
 Month Availability: 100%

Center for Customer Care & Energy Services – Mike Kanarick

Customer Care

- **Call Answer Time (75% in 20 seconds):** August 2023 77.0%, July 77.3%, June 79.5%, May 70.9%, April 85.3%, March 87.9%. August 2022 69.5%, July 79.5%, June 77.5%, May 71.1%, April 85.0%, March 85.8%. Marked improvement – 7.5% – from last August to this August.
- **September 2023 Stats:** please see dashboard for additional metrics categories.



**Please note that our account balances greater than \$500 were substantially reduced with the application of more than \$1M in ARPA funds in early April 2022.*



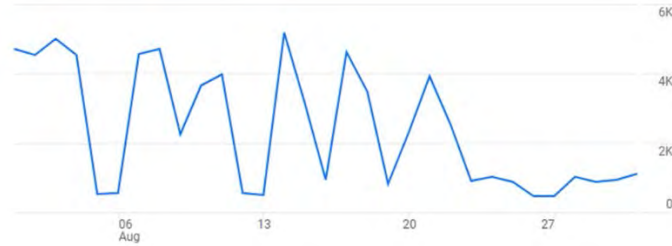
Communications and Marketing

- **New E-bucket truck:** on August 24, 2023, BED unveiled the state's 1st all-electric bucket truck at a press conference in our truck bay with Mayor Miro Weinberger, ANR DEC Commissioner John . Mayor Miro Weinberger and Burlington Electric Department (BED), joined today by partners from the Vermont Agency of Natural Resources (ANR), Department of Environmental Conservation (DEC), and Burlington City Councilor Hannah King (Ward 8), unveiled the state's first all-electric bucket truck. The new truck, with its unique white and green colors and "all electric – powered by 100% renewable energy" tag line rather than the traditional orange color, constitutes another important step along the path to Burlington becoming a Net Zero Energy city. It will reduce BED's annual diesel fuel usage by an estimated 1,650 gallons and reduce engine idling by an estimated 1,500 hours. You can read all about the event [here](#) or by visiting the NZE News section of our website.
- **Art Hop sponsorship:** by the time most of you read this, Art Hop weekend will have come and gone. BED once again partnered with our friends at SEABA to sponsor Art Hop, September 8-10. Similar to the past two years, BED's 585 Pine Street building was part of "Light Hop," with SEABA having installed LED lighting on the building at night, in addition to lighting on other Pine Street buildings. BED provided activity books, lineworker pens, and grocery store bags for Kids Hop.
- **Free Movie Screening & Discussion:** on Wednesday, September 20, from 6:30-8:30pm at Main Street Landing, BED will host a free movie screening of one episode of a documentary series called "Empowered: Energy Heroes," featuring Burlington's and Vermont's bold and innovative work in the energy space as we power forward toward a carbon-free energy future. The post-viewing discussion will feature writer/director/producer Kiki Goshay, Mayor Miro Weinberger, BED General Manager Darren Springer, Sunrun CEO (and former Green Mountain Power CEO) Mary Powell (virtually), and Vermont Land Trust VP for Engagement (and former Efficiency Vermont Director) Abby White. Please visit empoweredtheseries.com to learn more.
- **2nd Annual Net Zero Energy Festival – A Supercharged Day of Family Fun!** Please mark your calendars for Saturday, September 23, 2023 (rain date September 24), from 10:00am to 2:00pm at BED. To further our progress along the path to Net Zero Energy, we will have activities for people of all ages focused on reducing fossil fuel use and electrifying everything, including: food trucks; live music with both Antara and The Art of DonnCherie, as well as tunes spun DJ Gaybar; raffles; E-bike test rides; EV test-drives; mobile bike repair unit; bike parking; BED partners that provide heat pump, solar, and electric lawn care products; carshare and biking partners; BED energy experts; a special visit by our favorite, friendly, furry mascot CHAMP; and more. Please visit burlingtonelectric.com/festival for the most up-to-date information.
- **Vermont Emergency Rental Assistance Program (VERAP - erap.vsha.org):** VERAP is a wrap! BED received our final payment on August 7, 2023 bringing our grand total to \$1,215,547.90. VERAP helped tenant households with paying rent, as well as paying utility and home energy costs.
- **Vermont Homeowner's Assistance Program (VHAP):** launched by the State of Vermont through the Vermont Housing Finance Agency (VHFA) in January 2022 to help prevent home foreclosure and displacement with assistance for overdue mortgage payments, homeowners association fees, property taxes, and utilities. While the VHAP program applicant portal closed on June 12, 2023, a few more applicants continue to be sent our way by VHFA. So far, BED has

certified 122 (up from 101 and 94 the last 2 months) applicants. As of June 14, 2023, an applicant can add their name to a wait list and those applications will be evaluated based on need and program fund availability. Tax sales and foreclosures will be prioritized above utility bill payments. This will be the final VHAP update in this report.

- Net Zero Energy Podcast: we invite you to take a listen at burlingtonelectric.com/podcast.
- North Avenue News: our August column featured our exciting E-bucket truck news and promoted both the Empowered movie screening and NZE Festival described above. Our August ad also promoted the screening and festival.
- Website and Facebook Highlights
 - Overall site-wide pageviews for August 2023 = 74,791
 - July = 51,931
 - June = 36,499
 - May = 46,750
 - April = 40,507
 - March = 41,409
 - February = 31,290
 - January = 40,165
 - December = 20,272
 - November = 21,290
 - October = 21,797
 - September = 22,639
 - August = 27,972
 - July = 23,885
 - Unique homepage pageviews for August 2023 = 56,889
 - July = 32,716
 - June = 20,495
 - May = 27,691
 - April = 23,286
 - March = 28,317
 - February = 15,040
 - January = 21,866
 - December = 8,207
 - November = 7,371
 - October = 6,762
 - September = 6,921
 - August = 8,895
 - July = 8,565

- Full site visits for August 2023

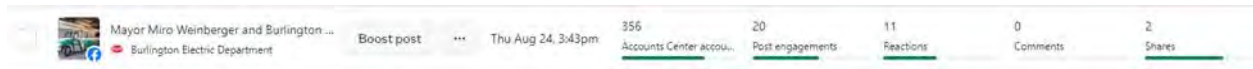


- Visitors by website page

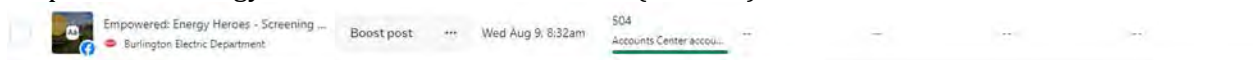
page title	Aug 2023	Jul 2023	June 2023	May 2023	Apr 2023	Mar 2023	Feb 2023	Jan 2023	Dec 2022	Nov 2022	Oct 2022	Sep 2022	Aug 2022
Burlington Electric Departm	56889	36108	21676	29074	24511	29277	19854	26553	8207	7134	7730	8080	10549
My Bill	4535	4648	2717	2811	2541	2657	2512	2735	2445	2520	2862	2850	3201
Waste Wood Yard	1040	1196	1199	1634	2010	330	259	593	590	1234	1332	920	1034
Report A Problem	295	309	251	104	344	91	74	82	871	167	120	455	1646
Stop or Start Service	713	616	908	2256	603	269	230	289	273	294	348	407	841
E-billing	401	349	337	254	207	240	240	280	234	241	319	330	362
Contact Us	944	740	762	1192	746	485	514	474	473	507	510	553	862
McNeil Generating Station	559	597	543	572	906	384	334	396	393	614	699	624	410
Heat Pumps	413	446	501	491	515	446	421	519	408	883	508	435	579
Rebates	715	714	694	776	831	645	562	860	554	584	588	627	689
Rebate Center	713	600	715	833	769	652	595	732	524	617	609	597	876
Rebates for 2023	30	38	44	59	73	71	219	333	n/a	n/a	n/a	n/a	n/a
Stop or Start Service	713	616	908	2256	603	269	230	289	273	294	348	407	841
Leadership Team	251	201	198	210	244	204	191	249	178	202	216	224	206
Rates & Fees	213	207	198	295	239	216	169	209	201	226	226	289	228
Usage Tracker Registration	n/a	13	189	127	92	99	115	118	112	124	120	124	177
RFP	626	331	329	329	354	331	316	498	413	374	516	419	268
Residential Ways to Save	157	127	169	181	173	132	123	125	134	125	133	142	187
Electric Vehicles	430	309	323	355	454	414	431	492	331	356	295	355	497
E-Bikes	235	234	199	141	205	172	114	118	76	107	151	173	292
Net Zero Energy News	12	9	40	12	28	38	23	33	40	48	40	37	25
Electric Vehicles	430	309	323	355	454	414	431	492	331	356	295	355	497
Our Energy Portfolio	55	78	99	82	94	108	85	70	49	65	74	57	102
Lawn Care	126	136	145	274	205	103	79	120	67	71	123	110	135
RFP Detail	1464	148	74	192	190	84	274	622	195	241	533	214	143
Defeat The Peak	5	5	5	5	5	7	3	13	8	9	12	15	333
Commercial Ways to Save	36	39	48	40	47	43	28	34	46	49	38	31	40

- Top-performing August Facebook posts

Electric Bucket Truck Press Conference



Empowered: Energy Heroes event announcement (boosted)



Old Spokes Home / Defeat The Peak check presentation



Energy Services

UVM

- Terrill Hall Lab Fume Hood Project- Working with staff and Cx Associates to finalize the upgrade to the controls system.
- Athletic Campus Renovation - Meeting with staff and contractors next month to kick-off an energy design charrette to model a variety of HVAC and envelope upgrade options.

UVMMC

- ACC Lighting Retrofits to LED – The installation of 1000 High-Bay LED fixtures has been continuing for several months with BED committing to an additional rebate to help cover the cost of installation. An updated status of installation was received this month. Five different mechanical areas have seen installation activity, and a total of 249 fixtures have been removed while a total of 229 new fixtures have been installed in their place.

Other Services

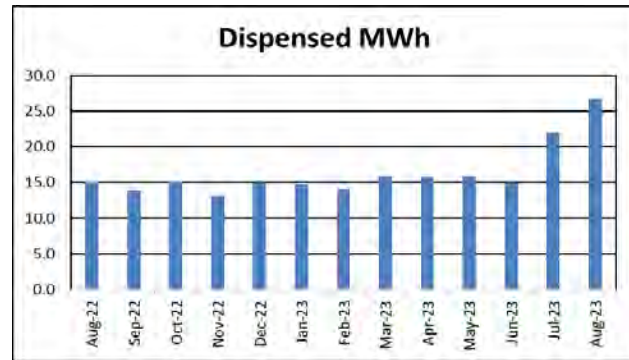
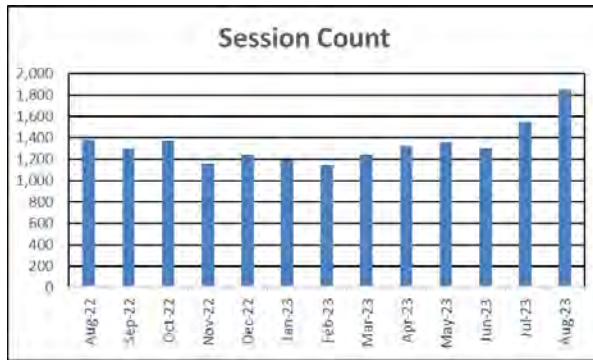
- Hickok & Boardman / HVAC Retrofit – A major HVAC retrofit was completed in this building over a year ago. It improved comfort while significantly lowering the electrical costs. There have been recent discussions around further reducing energy use through small modifications in the sequence of operation of the building management system.
- Village Hydroponics / Shipping Container Vegetable Grow – A non-profit in Burlington is working on a design for a fully enclosed vegetable grow facility which will fit into a standard metal shipping container. The focus is on non-summer only growing and to provide vegetable types that may be unavailable in Vermont, especially in winter, but familiar to various other cultures now living here. This month the final modeling for the project was available and an energy savings estimate has been calculated. A rebate offer has been provided to the customer. A virtual meeting was held at the end of the month to explain the BED rebate offering and go over the latest details about the project. It appears the start of construction will be Spring, 2024.
- Champlain School Apartments / Corridor Lighting Upgrades – The project is to replace all of the fixtures, removing fluorescent technology and installing new LED fixtures. The scope of the work is 76 fixtures in both the corridors and in the stairwells of the apartment complex. A final BED walkthrough was completed last month. This month the committed BED rebate was paid out.
- Rhino Foods / New Freezer Warehouse – A meeting was held last month between the owner and BED to discuss the final decision-making on whether this project will go ahead. During that meeting BED has agreed to update our original EEU rebate offer to reflect the financial realities of the project more closely. This month we are exploring a Tier 3 measure with Policy & Planning, which is related to the offsetting of diesel fuel usage required for truck transportation between the Rhino facility in Burlington and the existing freezer storage warehouse in Williston. The new warehouse would eliminate this current truck travel.
- 77 Pine St. Bank Building / Multifamily NC – BED is continuing to work on the finalization of the energy savings for this 49-unit apartment building. This involves the calibration of the energy

model with building usage. BED has paid the first rebate payment for the project and confirmed that no upstream rebates were paid for the heat pumps. However, performance problems are suspected with the building operation and we are working with the owner to investigate possible causes.

- 79 Pine (The Nest) / 49-Unit Multi-Family NC – BED continues to work on finalizing the energy modeling so that an energy savings can be determined and a rebate offer generated for the owner. The apartment building has been fully occupied for several months, so the beginning of the energy model calibration process is now in progress. The financial information for the project was received by BED, and a schedule for the BED site visit is now being developed.
- Burlington City Arts / 405 Pine St. Renovation – A meeting was held between the architect, the energy modeler, and BED to discuss the status of the project and the structure of the energy modelling used to determine incentives. Most of the renovation work is completed except for interior finish work and a roof replacement. Energy efficient features of the building are essentially complete. The modeler is in the process of updating the modeling analysis per the final building design and will be back in touch with new modeling reports when available.
- Stash Farm LLC / New Cannabis Grow Facility – The state licensing process for this proposed facility is nearly complete. Initial dialog is due to begin with BED by early next month.
- SILT Botanical Bathhouse – BED is in the process of setting up an informational meeting with the mechanical designers and energy modeler for this project, to be located on Pine St. at Burlington's South End. There is some possibility of a geothermal-based mechanical system being included in the design. The next meeting is expected to occur early in September.

Electric Vehicles

- The EVSE dispensed a total of 26.8 MWh (a 22% increase) and supported 1,849 sessions, (a 19% increase) over the previous month.
- The top 3 sales were 90, 92, and 97 kWh and occurred at the Pine St. DCFC & UVM Carrigan Dr.
- The top 10 sessions (0.5% of total) accounted for 3.2% (845 kWh) of the total monthly sale. The ten sessions ranged from 75 kWh-97 kWh.
- The EVSE served 1,023 unique drivers, a 13.4% increase compared to the previous month.
- The Pine DCFC installation is complete. The commissioning agent has requested that the 3/8" anchor bolts be replaced with 5/8" (as specified) and a rodent guard be added. We are working with installer to make changes.
- The Marketplace Garage DCFC installation is still on-hold.
- Compensating Burlington Parks and Recreation and the Waterfront for the energy dispensed from the Oakledge Park station, it was determined to be in conflict with our tariffs. P&P is researching options. ES has let Burlington Parks and Recreation and the Waterfront know that we are working towards a solution.
- *Session Count* and *Dispensed Energy* plots from the public charging network are shown below.



- Number of EV and PHEV rebates to date – 587 (of this 103 LMI rebates to date as shown below)
 - New All Electric Vehicle – 252
 - New All Electric Vehicle (LMI) – 48
 - New PHEV – 136
 - New PHEV (LMI) – 42
 - Used All Electric Vehicle – 49
 - Used All Electric Vehicle (LMI) – 10
 - Used PHEV- 24
 - Used PHEV (LMI) – 3
 - New All Electric Vehicle (\$60K plus) – 21
 - New PHEV (\$60K plus) – 2
- Number of customer loans with lending partners to date – 5
- Number of customers currently participating in the new EV Charging Rate- 219
- Number of E-Motorcycle rebates to date – 1

Electric Vehicle Charging Stations

- Number of home EV charging stations rebates to date – 163
- Number of Multi-family EV charging stations rebates to date – 1
- Number of Multi-family Non-EVmatch charging stations rebates to date (LMI) – 3
- Number of Multi-family EVmatch Public charging stations rebates to date – 2
- Number of Multi-family Non-EVmatch charging stations rebates to date – 3
- Number of Multifamily EVmatch Non-Public – LMI - 1
- Number of Multifamily Non-EVmatch Non-Public – LMI – 2
- Number of Level 2 Workplace charging stations rebates to date – 8

Electric Lawn Equipment to Date

- Number of e-mower rebates to date – 662 (11 commercial & 651 residential)
- Number of e-leaf blowers to date – 71
- Number of Residential e-Trimmers – 73
- Number of Residential e-chainsaws – 13

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

- Total Number of Heat Pump Technology rebates to date- 1,059 (of this 151 LMI rebates to date as shown below)
 - Number of ductless heat pumps to date – 644
 - Number of LMI eligible ductless heat pumps to date – 119
 - Number of centrally ducted heat pumps to date – 202
 - Number of LMI eligible centrally ducted heat pumps to date – 22
 - Number of air-to-water heat pumps to date – 1
 - Number of commercial VRF heat pump systems to date – 2
 - Number of geo-thermal heat pump systems to date – 1
 - Number of heat pump hot water heaters to date – 58
 - Number of LMI eligible heat pump hot water heaters participants to date – 10

Electric E-Bikes to Date

- Number of e-bike rebates to date – 525

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

- Number of induction Stovetops rebates to date – 57

Electric Snow Blowers to Date (new offering in Jan 2022)

- Number of snow blower rebates to date – 17

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Engage Customers and Community													
Call answer time 75% within 20 seconds	75%	77%	77%	80%	71%	85%	88%	89%	85%	avg 82%	avg 82%	avg 81%	
Delinquent accounts >\$500	0	128	137	118	122	163	197	203	194	avg 188	avg 529	avg 201	
Disconnects for non-payment	0	0	6	17	42	77	32	3	0	12	0	45	
Energy Assistance Program Participants		190	160	154	146	138	134						
# of residential weatherization completions	10	0	1	0	2	3	1		0	5	5	3	11
Weatherization completions in rental properties		0	0	0	2	2	0	2	0	6	0	0	TBD
# or % of homes or SF weatherized		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0
# of commercial building with improved thermal envelopes		1	1	0	1	1	1	0	0	4	5	5	0
Total annual mWh saved via the EE programs (annual goal)	4,657	1,343	1,276	1,010	800	654	441	130	TBD	4053			3057
Total residential annual mWh saved via the EE programs (cumulative for year)	748	399	369	322	286	202	141	60	TBD	862			917
Total commercial sector annual mWh saved via the EE programs (cumulative for year)	3,909	943	906	688	514	452	300	70	TBD	3191			2140
% of EEU charge from LMI customers spent on EE services for LMI customers (cumulative for 2021- 2023 year 3-year EEU performance period)	\$ 180,240	\$ 487,481	\$ 476,874	\$ 474,930	\$ 470,255	\$ 464,839	\$ 375,327	\$ 350,165	\$ 348,213	\$ 335,234	TBD	TBD	TBD
# of customers enrolled in DtP mailing list	TBD	800	798	782	NA	NA	NA	NA	NA				523
# of large customers participating in DtP		NA	12	NA	NA	NA	NA	NA	NA	11			
Strengthen Reliability													
SAIFI (AVG interruptions/customer) (annual target)	< 2.1	0.23	0.03	0.11	0.01	0.06	0.0	0.0	0.01	1.06	0.22	1.50	1.03
CAIDI (AVG time in hrs to restore service) (annual target)	< 1.2	0.23	1.17	0.39	0.91	1.51	1.36	1.22	2.17	21.39		0.55	0.75
Distribution System Unplanned Outages (annual target)	82	4	8	5	3	2	0	1	3	61	44	90	98
McNeil Forced Outages	0	0	0	0	0	1	1	0	1	14	5	21	TBD
W1H Forced Outages	0	0	1	0	0	0	0	0	0	6	9	2	TBD
GT Forced Outages	0	1	2	0	1	1	1	1	1	6	2	3	TBD
Invest in Our People, Processes, and Technology													
Avg. # of days to fill positions under recruitment	120	194	184	241	211	155	178	238	179	100	68	179	
# of budgeted positions vacant	0	12	15	12	11	11	10	7	7	avg 9	avg 9	6	NA

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Innovate to Reach Net Zero Energy													
<i>Tier 3 Program</i>													
# of residential heat pump installs		21	11	4	24	13	8	10	25	255	315	203	10
# of commercial heat pump installs		0	1	0	1	0	0	1	0	4	4	13	0
# of residential hot water heat pump installs		0	2	2	5	1	1	0	6	26	14	6	4
# of commercial hot water heat pump installs		0	0	0	0	0	0	0	0	0	0	0	0
Heat pump rebates		23	12	4	31	14	9	12	26	271	328	212	0
Heat pump hot water heater rebates		0	2	2	3	1	1	16	6	18	15	3	0
LMI heat pump rebates		2	3	2	0	1	2	0	0	43	28	6	4
Heat pump technology installs in rental properties		1	0	0	1	1	1	1	1	10	14	9	TBD
LMI heat pump hot water heater rebates		0	0	0	0	0	2	1	0	1	2	0	1
EV rebates - new		11	8	9	8	5	10	6	4	53	67	14	36
EV rebates - pre-owned		4	3	0	0	5	0	0	0	18	7	8	2
LMI EV rebates		2	1	5	0	0	1	2	1	9	11	7	7
PHEV rebates - new		1	2	0	1	0	4	3	3	27	41	10	17
PHEV rebates - preowned		1	0	0	1	1	1	1	0	12	6	5	3
LMI PHEV rebates		1	0	0	0	0	0	0	0	15	13	6	2
Public EV chargers in BTV (total)		32 Ports	32 Ports	30 ports	30 ports	30 ports	30 ports	30 ports	30 ports	30 ports	27 ports	27 ports	14
Public EV charger energy dispensed (kWh)		26,800	22,000	14,900	15,900	16,000	15,900	14,100	14,700	151,360	86,570	35,690	78,000
Home EV charging station rebates		3	2	7	10	12	8	5	3	70	32	20	12
EV rate charging customers (total)		219	213	208	204	192	178	168	162	157	40	40	28
Level 2 charger rebates		0	0	0	2	1	0	0	1	11	10	0	1
Level 1 charger rebates		0	0	0	0	0	0	0	0	-	0	1	0
E-bike rebates		30	11	22	23	13	3	3	0	152	88	36	65
E-mower rebates		21	9	21	42	16	0	0	1	159	154	95	142
E-forklift rebates		0	0	0	0	0	0	0	0	1	0	0	0
MWE of Tier 3 measures installed		1,293	1,888	1,737	1,892	1,563	965	786	1,602	22,837	23,763	35,112	3,342
% Tier 3 obligation met with program measures	100%	61%	54%	45%	35%	26%	17%	12%	8%	131%	159%	283%	31%
<i>Net Zero Energy Roadmap Goals</i>													
# of solar net metering projects installed		2	2	1	1	3	5	4	5	33	29	24	33
No. of homes receiving NZE Home Roadmaps		0	0	0	0	0	0	0	0	7	10	7	
Residential heat pumps for space heating (no. of homes)	2022: 8615	NA	NA	NA	NA	NA	NA	NA	NA	TBD	1235, 20% of goal	891	572
Commercial heat pumps for space heating (1000 SF floor space served)	2022: 5397	NA	NA	NA	NA	NA	NA	NA	NA	TBD	405, 11% of goal	374	374
Residential heat pumps for water heating (no. of homes)	2022: 4365	NA	NA	NA	NA	NA	NA	NA	NA	TBD	108, 4% of goal	108	87
Commercial heat pumps for water heating (1000 SF floor space served)	2022: 1019	NA	NA	NA	NA	NA	NA	NA	NA	TBD	0	0	-
EV registrations in BTV (light-duty)	2022: 2294	NA	NA	NA	NA	NA	NA	NA	NA	TBD	549, 45% of goal	361	296
Greenhouse gas emissions (1000 metric tons CO2)	2022: 150	NA	NA	NA	NA	NA	NA	NA	NA	TBD	188, 114% of goal	185	214
Fossil fuel consumption (billion BTU)	2022: 2418	NA	NA	NA	NA	NA	NA	NA	NA	TBD	3220, 120% of goal	3,182	3,660

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
<i>Demand Response</i>													
# of Defeat the Peak events called		0	1	0	0	NA	NA	NA	NA	3	5	3	4
Average kW savings per DtP event		0	316	0	0	NA	NA	NA	NA	463	419.5	261	242
<i>Manage Budget and Risks Responsibly</i>													
<i>Safety & Environmental</i>													
No. of workers' compensation/accidents per month	0	2	1	0	1	1	0	1	0	16	4	8	
Total Paid losses for workers' compensation accidents (for the month)	annual	\$2,298	\$3,887	\$10,839	\$5,357	\$4,412	\$2,472	\$8,466	\$4,031	\$ 145,102	\$ 93,612	\$ 165,402	\$38,288
Lost Time Incident Rate (days/year) (Dec numbers reflect annual results)	<= 3.5 annual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.99	0.0	0.93	0.89
Lost Time Severity Rate (days/year) (Dec numbers reflect annual results)	<= 71 annual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.63	0.0	41.71	78.2
Lost work days per month	0	21	0	0	0	0	0	0	0	avg 9	0.0	45	
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	<0.075	0.072	0.069	0.067	0.075	0.070	0.070	0.070	0.067	0.06	0.07	0.07	
# of reported spills, waste water incidents (monthly)	0	0	1	1	0	0	0	0	0	6	4	4	
Phosphorus levels to DEC in lbs (monthly/yearly total)	<0.8/37	0.074/0.707	0.049/0.639	0.032/0.597	0.048/0.674	0.294/0.650	0.037/0.475	.050/ .543	0.017/0.560	0.688	2.028		1.169
# of new power outage claims reported (monthly)	1	1	0	0	0	0	0	0	0	5	7	4	
# of new auto/property/other liability claims reported (monthly)	2	2	5	4	6	2	4	2	2	27	18	27	
<i>Purchasing & Facilities</i>													
# of Purchase Orders for Inventory (Target: avg for winter months)	42	31	61	23	36	59	56	72	40	636	644	593	
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	\$78,000	\$227,144	\$234,876	\$67,205	\$78,868	\$130,111	\$94,837	\$196,551	\$229,809	\$ 4,861,023	\$ 3,278,620	975,531	
# of stock issued for Inventory (Target: avg during winter months)	320	681	490	470	695	575	571	516	569	6,187	4,402	4,545	
\$ value of stock issued for Inventory (Target: avg. during winter)	\$ 65,000	\$ 140,668	\$ 100,819	\$ 57,035	\$ 141,919	\$ 317,305	\$ 130,896	\$ 175,308	\$ 275,666	\$ 2,200,233	855,456	1,086,478	
# of posters pulled from poles monthly (Taget: goal to remove each month)	58	24	35	179	88	43	59	43	73	900	2,728	627	
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	3	23	10	19	23	18	20	9	16	132	88	87	
<i>Finance</i>													
Debt service coverage ratio (avg of previous 12-months)	1.25		4.25	3.77 (prelim)	2.71	3.83	2.36	2.64	3.91	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Adjusted debt service coverage ratio (avg of previous 12-months)	1.5		1.48	1.28 (prelim)	0.84	1.02	0.67	0.8	1.02	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Days unrestricted cash on hand	>90		102	93 (prelim)	107	117	93	100	120	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
<i>Power Supply</i>													
McNeil generation (MWH) (100%)	per budget	16,707	35,538	13,989	1,360	0	22,522	29,391	30,034	228,981	273,355	192,696	
McNeil availability factor	100%	99%	97%	100%	98%	32%	94%	100%	84%	67%	80%		
McNeil capacity factor	per budget	45%	96%	39%	3.7%	0%	61%	87%	81%	52.4%	62.4%		
Winooski One generation (MWH)	per budget	4,068	3,285	1,987	2,505	3,717	2,878	2,489	3,609	25,350	24,752	21,194	
Winooski One availability factor	100%	99%	80%	99%	99%	99%	99%	99%	99%	98.3%	97%		
Winooski One capacity factor	per budget	74%	60%	37%	46%	69.8%	52.3%	50.1%	67.7%	41.7%	37%		
Gas Turbine generation (MWH)	NA	61.8	47.1	0.0	0	0	8.1	4.7	0.0	356	373	441	
Gas Turbine availability factor	100%	21%	0%	50%	39%	35%	36%	0%	0%	54.5%	96%		
Gas Turbine capacity factor	NA	0.4%	0%	0%	0%	0%	0%	0%	0%	0.2%	0.21%		
BTV solar PV production (mWh)		531	533	571	723	531	359	233	82	5,260	5,015	5,182	
Cost of power supply - gross (\$000)			\$2,983	-\$910	\$2,639	\$2,509	\$3,558	\$2,953	\$2,772	\$36,755	\$30,285	\$31,081	
Cost of power supply - net (\$000)			\$2,983	-\$910	\$1,995	\$1,534	\$3,558	\$927	\$2,772	\$27,487	\$22,134	\$23,388	
Average cost of power supply - gross \$/KWH			\$0.09	-\$0.03	\$0.11	\$0.10	\$0.13	\$0.11	\$0.10	\$0.11	\$0.09	\$0.10	
Average cost of power supply - net \$/KWH			\$0.09	-\$0.03	\$0.08	\$0.06	\$0.13	\$0.04	\$0.10	\$0.08	\$0.07	\$0.08	

**MINUTES OF REGULAR MEETING
BURLINGTON ELECTRIC COMMISSION**

Wednesday, July 12, 2023, 5:30 pm

The regular meeting of the Burlington Electric Commission was convened at 5:30 pm on Wednesday, July 12, 2023, at Burlington Electric Department at 585 Pine Street, Burlington, Vermont and virtually through Microsoft Teams.

Channel 17 was present to record this meeting.

Commissioners Chagnon, Herendeen, Moody, Stebbins, and Whitaker were present.

Staff members present at 585 Pine Street included Paul Alexander, Rodney Dollar, Paul Pikna, Munir Kast, Paul Pikna, Darren Springer, Emily Stebbins- Wheelock, and Colleen Rouille (Temporary Board Clerk)

Staff members present via Microsoft Teams included Mike Kanarick, Amber Widmayer and James Gibbons.

1. Election of Officers

Temporary Board Clerk, Colleen Rouille, called the meeting to order at 5:30 p.m. The first meeting of the new fiscal year is the Burlington Electric Commission's organizational meeting. The first order of business is to elect officers. The Board Clerk opened the floor for nominations for Chair of the Commission.

Commissioner Chagnon made a motion to nominate Commissioner Moody as Chair of the Burlington Electric Commission; the nomination was seconded by Commissioner Whitaker. The Board Clerk asked if there were any other nominations. Hearing none, the Board Clerk asked the Commission to indicate support for Scott Moody by a show of hands. Of the 5 members present, 4 votes were cast in support of Commissioner Moody. Commissioner Moody was elected Chair of the Commission. At this time, Ms. Rouille turned the meeting over to the Chair.

Commissioner Moody opened the floor for nominations for Vice Chair of the Burlington Electric Commission. Commissioner Chagnon made a motion to nominate Commissioner Whitaker; the nomination was seconded by Commissioner Herendeen. Commissioner Moody asked if there were any other nominations. Hearing none, Commissioner Moody asked the Commission to indicate support for Commissioner Whitaker by a show of hands. Of the 5 members present, 4 votes were cast in support of Commissioner Whitaker. Commissioner Whitaker was elected Vice Chair of the Commission.

Commissioner Moody nominated Laurie Lemieux as Board Clerk for the Burlington Electric Commission: the nomination was seconded by Commissioner Chagnon and approved by all Commissioners present.

2. Agenda

There were no changes to the agenda.

3. June 14, 2023, Meeting Minutes

Commissioner Moody asked if there were any changes to the minutes. Commissioner Whitaker made a change to two of the members of the public names. Commissioner Herendeen made a change to the wording of IES standards throughout the document to the word recommendations. Commissioner Whitaker made a motion to approve the minutes with changes of the June 14, 2022, Commission Meeting; the motion was seconded by Commissioner Chagnon and approved by all Commissioners present.

4. Public Forum

No one from the public was present for the meeting.

5. Commissioners' Corner

Commissioner Herendeen thanked Emily Stebbins- Wheelock and Chris Burns for responding to questions that were sent to them. Commissioner Whitaker brought up interest in the hydro facility and the McNeil plant and the impact of the flood on the facilities. Commissioner Moody asked if they could get a brief report on that in the GM Update. Commissioner Whitaker also mentioned that she heard of a possible protest at the McNeil Station. Darren Springer said it was Burlington Electric's understanding that on social media there has been discussion about a protest.

6. GM Update

Mr. Springer stated that the protest is being organized by some of the groups that have been vocal in opposing McNeil and District Heating. They are planning to go from Gardeners Supply to the McNeil plant the morning of Saturday July 22, 2023. The language used is to demand that the City of Burlington shut down the McNeil plant, which is not part of any current discussion. Currently the discussion is to invest or not in District Energy as a City and make those improvements to the McNeil plant if we go forward with this. There is no other discussion of any other alternatives. We are preparing to ensure safety for customers who are visiting the waste wood yard and ensuring the integrity of the facility. That will be the team's focus and priority if the protest happens. We respect that there are different views in the community and respect people's right to voice those views.

Mr. Springer said that the flooding has impacted our two power generation facilities, Winooski One and McNeil. Mr. Clark, who operated the Winooski One hydro plant was interviewed by some local news stations and talked about the impacts the flood had at his facility. Water levels at Winooski One were higher than they were during Irene. There are photos of the platform where you stand to look out at the river is covered with water but was built and designed to withstand high water levels. The facility had been taken offline as a precaution during this period of flooding. There will be a lot of debris and trash to be cleaned up when the levels are safe. Mr. Springer said we are documenting all costs and will submit them for FEMA reimbursement. Mr. Alexander is working on any insurance claims from the flood. At McNeil, there is flooding in the field and at the gate area near the entrance to the plant. The waste wood yard has been closed temporarily and the plan is to open it back up at noon on Thursday. There were no operational issues at the plant, and it is currently online. Burlington Electric was in touch with other utilities as the storm was happening and there were no power restoration needs in Burlington. There was a crew sent to help GMP with storm related outages. Washington Electric had outages but could not get too the sites that needed repair. Mr. Springer was glad we could send a crew to help and wishes we could do more. Department of Public Works has sent trucks to help pump out water in homes and basements. The mayor has offered help to the surrounding communities.

We expect the carbon fee policy ordinance to be introduced in July, with work at TEUC and Ordinance Committee in July and August to follow.

District Heat customer term sheet meetings taking place in July, with potential City Council work sessions in September. Working towards the GO/NO GO decision. Expecting decision on financing in late July. Also working on transfer of TEPF funds to complete feasibility / design work, pending PUC approval.

Legislative Working Group on RES – There will be a summer/fall legislative workgroup on changes to the Renewable Energy Standard, BED is a named participant and will engage.

Burlington Electric is still awaiting PUC approval of FY23 rate case. FY24 rates will change for bills rendered September.

We are seeing relatively robust uptake on heat pump and EV incentives in 2023, perhaps aided by Inflation Reduction Act incentives at federal level. Changes to the Act 151 program to allow BED to tap TEPF funds (currently used for district heat feasibility work) in 2024-2026 will help us continue enhanced incentive levels for key programs, although we may want to consider changes based on the new federal incentives, including focusing on reducing operating costs for heat pumps as opposed to upfront capital costs.

7. 2023 – 2024 Strategic Direction

Mr. Springer stated that there has been extensive work on this document in the past on getting the missions, values, and vision to reflect the commission and the departments goals. This year the focus has been updating the strategic direction in a few different ways. The entire team is asked for input and feedback through their managers. The changed and additions were highlighted in red on the document. Some changes were just wording only. Others were driven by the equity analyst and City Attorney reviewing the document and making suggestions. The document has been posted and given to employees and the work of each employee is captured in the plan. The commissioners liked the changes and agreed with a document that was more diverse and one that reflects different language barriers and adding what we currently offer our customers.

Commissioner Herendeen made a motion to approve the 2023-2024 strategic plan: The motion was seconded by Commissioner Chagnon and approved by all Commissioners presents.

8. May FY23 Financials

Ms. Stebbins-Wheelock presented the May 2023 financial results.

The Department's net loss for the month of May was \$540K compared to a budgeted net income of \$836K, which is \$1.376 M worse than budget.

Sales to customers were below budget by \$388K for May and are 2.2% below budget for the fiscal year to-date. May power supply revenues were unfavorable to budget by \$1.526M largely due to timing and receiving the REC revenue in April instead of May as budgeted. Year-to-date REC revenues are below budget by \$915K due to lower renewable generation in prior periods. Other revenues were mildly unfavorable with a variance to budget of (\$103K) for the month.

Power supply expenses were favorable to budget by \$349K in May. Fuel expense was favorable to budget by \$495K due to McNeil being offline for most of the month of May for economics. Energy prices were low, so McNeil stayed offline to conserve wood and build wood supply heading into the summer. Transmission expense was \$65K favorable to budget. Purchased power was \$209K worse than budget, including a \$38K Mystic charge. Because McNeil was offline, we were a net purchaser from the ISO-NE Exchange during the month, but we were helped in that regard by low energy prices.

Other Operating and Maintenance expenses were favorable to budget by \$358K. Favorable items for this included labor and overhead due to vacancies, materials and supplies due to timing, and EEU rebates due to timing.

For the fiscal year to date the Department has a net loss of \$309K compared to a budgeted net income of \$2.798M, which is an unfavorable variance of \$3.11M.

Commissioner Whitaker asked about the implications of the year-to-date results. Ms. Stebbins-Wheelock responded that the Department will have less cash on hand at the end of the fiscal year. The Department has also filed a request with the Public Utility Commission to make an accounting adjustment to amortize the loss of \$4M in winter excess energy revenue over a period of seven years. This will take the \$4M of expense that would otherwise be recorded and reduce it, which will improve our net income for the fiscal year. There have been some stronger energy prices in June and part of July and the McNeil plant has been running so this is a help. The Department is slowly lowering the wood price per ton to mitigate cost pressure, and we will be monitoring the FY24 budget closely as we move forward.

Capital spending at the end of May was \$7.4M, which is 81% of the fiscal year budget.

Operating cash at the end of May was \$7.75M compared to a budget of \$9.9M. The gap of \$2.2M in actual cash versus budgeted cash is significant but slightly improved since the end of April.

For the 12 months ended May 2023, the debt service coverage ratio was 2.71, the adjusted debt service coverage ratio is 0.84, and the days cash on hand is 107.

The operating cash balance as of June 30, 2023, is \$4.463M, which is in line with the Department's most-recent forecast but a little less than the FY24 budget's beginning cash balance, estimated in May. Ms. Stebbins-Wheelock stated that she does not yet know that the exact number of days cash on hand as of June 30 because total operating expenses for the fiscal year will not be known until June is closed. The forecast is around 64 days, and she expects it will be close to that number.

9. I.R.P Update

Mr. James Gibbons stated that reports on McNeil have been completed and are now available on the McNeil Website. There are three reports. The carbon report done by Vermont Gas Systems, the carbon report done by Innovative Natural Resources and a McNeil economic report also done by Innovative Natural Resources. These reports have also been provided to the Department of Public Service. The generation chapter graph has been completed and has been shared with and discussed with the Department of Public Service. They have provided comments and the comments are being incorporated into the document. The post comment draft will be sent to the Commissioners to look at. The TMD chapter is done in draft form and has been provided to the Public Service Department and we are waiting for comments from them on that chapter. The current intern employee in Power Resources has begun work on the Net Zero chapter. That chapter will include a Net Zero roadmap update with information on actions and accomplishments to date. It will have a section TMD requirements to be 102.8 megawatts, and a section on TMD requirements to meet 120 megawatts. There will also be a discussion on District Energy. These are the planned components of that chapter. Mr. Gibbons then provided an informative power point presentation on the IRP which is due on September 1, 2023. The presentation included a forecast, a resource evaluation, the generation chapter, the distribution evaluation, and the economic impacts.

10. Commissioners' Check-In

Commissioner Moody stated that the August meeting would be cancelled because of low agenda items, and they will resume in September.

Commissioner Whitaker asked if the Net Zero energy day would happen again in September. Mr. Springer said that they are and have had several planning meetings. They have posted it on social media and asked people to hold the date on September 23 with a rain date on September 24. There will be some advertising to let people know about the event. There will be some additions to the program compared to previous years that will hopefully draw more people to the event. The time will be ten am. to two pm. There will be more information at the September meeting.

Commissioner Moody made a motion to adjourn; the motion was seconded by Commissioner Herendeen and approved by all Commissioners present.

The meeting of the Burlington Electric Commission adjourned at 6:45 p.m.

Attest:



Colleen Rouille, Temporary Board Clerk



*FY 2024
Financial Review
July*

August 31, 2023

Burlington Electric Department Financial Review

FY 2024

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○ Labor Overhead	13
○ Net Income	14
● Capital Spending	15 - 17
● Cash	18

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of JULY FY24

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	53,110	5,194	5,261	67	5,194	5,261	67
Other Revenues	3,775	333	129	(204)	333	129	(204)
Power Supply Revenues	8,244	0	0	0	0	0	0
Total Operating Revenues	65,130	5,527	5,390	(137)	5,527	5,390	(137)
Power Supply Expense (Net)	33,880	3,271	2,983	289	3,271	2,983	289
Operating Expense	22,846	1,901	1,475	426	1,901	1,475	426
Depreciation & Amortization	6,630	552	500	53	552	500	53
Taxes	3,369	285	287	(2)	285	287	(2)
Sub-Total Expenses	66,725	6,010	5,245	765	6,010	5,245	765
Operating Income	(1,595)	(482)	146	628	(482)	146	628
Other Income & Deductions	5,044	438	399	(39)	438	399	(39)
Interest Expense	3,166	267	260	7	267	260	7
Net Income (Loss)	283	(312)	284	596	(312)	284	596

Year-to-Date Results:

- **Sales to Customers** up \$67,000 (1.3%). Residential Sales up \$45,500 and Non-Residential Sales up \$21,500.
- **Other Revenues** down \$204,000 (61.2%)
 - a. DSM billable (customer driven).
- **Power Supply Expenses (Net)** down \$289,000 (9%)
 - a. Purchased Power down \$488,000.
 - b. Transmission down, \$97,000.
 - c. Fuel up \$296,000.
- **Taxes** up \$2,000
 - a. Actual Payment in Lieu of Tax (PILOT) is \$27,000 higher than budget assumption for the year.
- **Operating Expenses** down \$426,000 (22.4%)
 - a. Various items are less than budget including labor & overtime (\$31,000), DSM (rebates & outside services) (\$140,700), materials & supplies (\$81,000), A&G Clearing (\$95,400) and RPS Compliance (\$29,500).
- **Other Income & Deductions** down \$39,000 (8.9%)
 - a. Timing of jobbing unfavorable \$78,000. Offset by unrealized gain on investment \$60,000.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of JULY FY24

Capital Spending – July YTD (\$000s)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$2,038	\$518	\$67	3%
Other	415	3	13	3%
Distribution	7,166	11	182	3%
General	1,343	37	857	100%
Total	\$10,963	\$569	\$1,119	10%

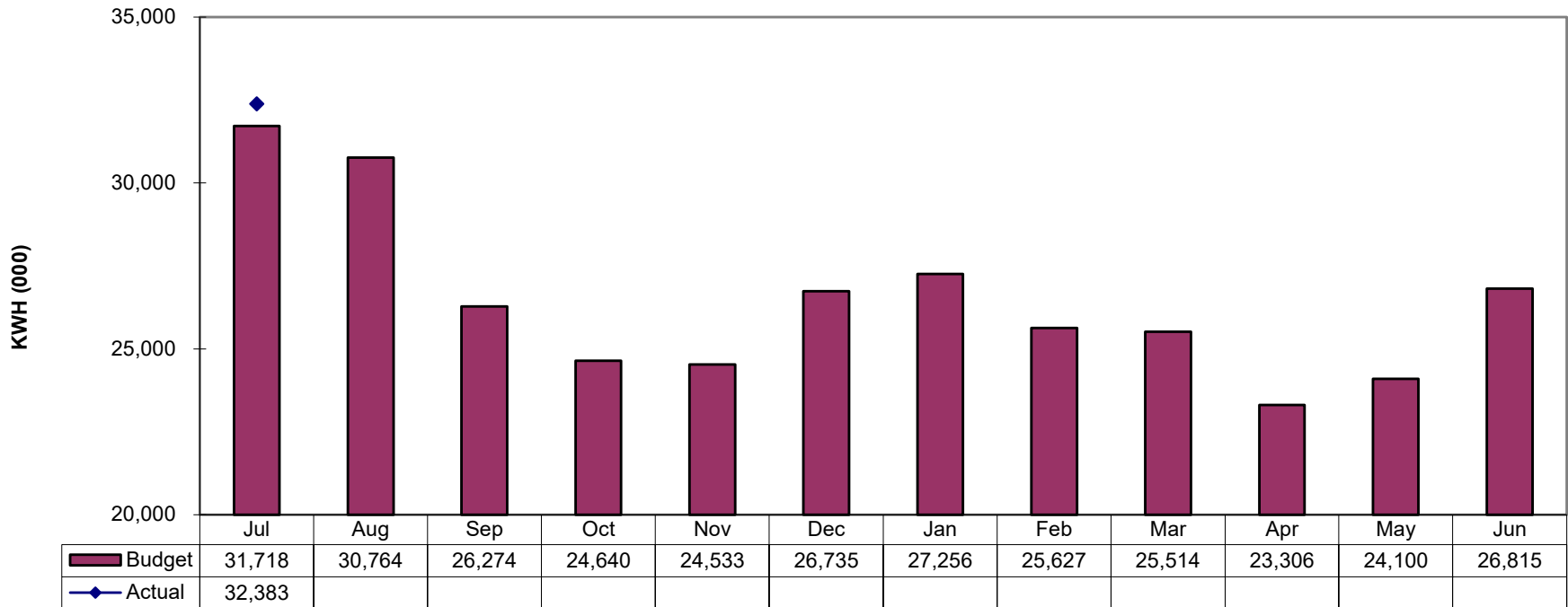
- (1) **Production** – Timing of projects at McNeil Plant. July budget assumed turbine control system upgrade, \$124,900 and wood handling front end loader, \$183,000.
- (2) **Other** – Timing; actual includes spending on Public Level 2 EV chargers.
- (3) **Distribution** – Timing of various projects.
- (4) **General** – Actual includes full cost of the all-electric bucket truck. Awaiting partial reimbursement from the state grant.

As of July 31, 2023 Operating Cash and Investments	
Operating Funds	\$3,768,900
Operating Fund – CDs	\$980,500
Total Operating Cash	\$4,749,400

Credit Rating Factors – July 2023				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	4.25	3.83
Adjusted Debt Service Coverage Ratio	1.50	1.10	1.48	1.05
Cash Coverage - Days Cash on Hand	90	30	102	114

**Burlington Electric Department
Fiscal Year Ending June 30, 2024**

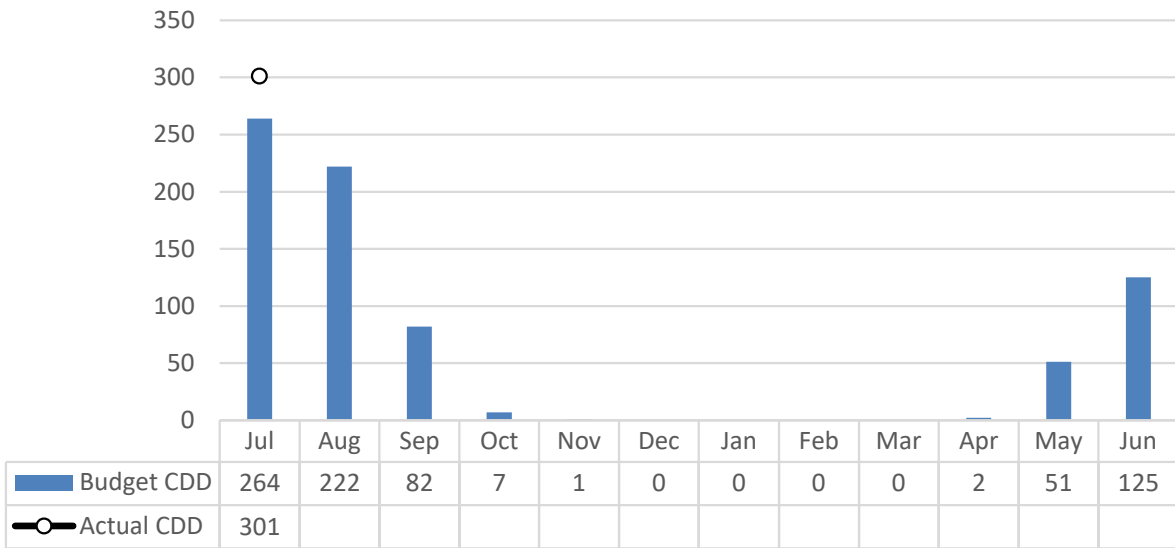
**Total Sales to Customers - KWH
Monthly**



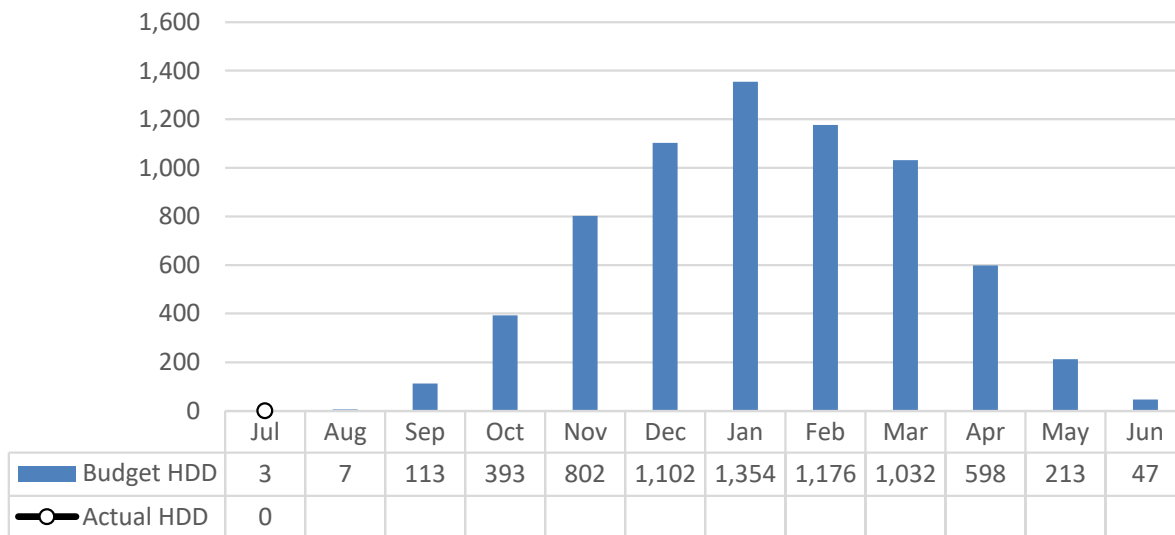
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	31,718	62,482	88,756	113,397	137,930	164,665	191,921	217,547	243,061	266,367	290,468	317,283
Actual	32,383											

FY 2024

Cooling Degree Days (CDD)



Heating Degree Days (HDD)

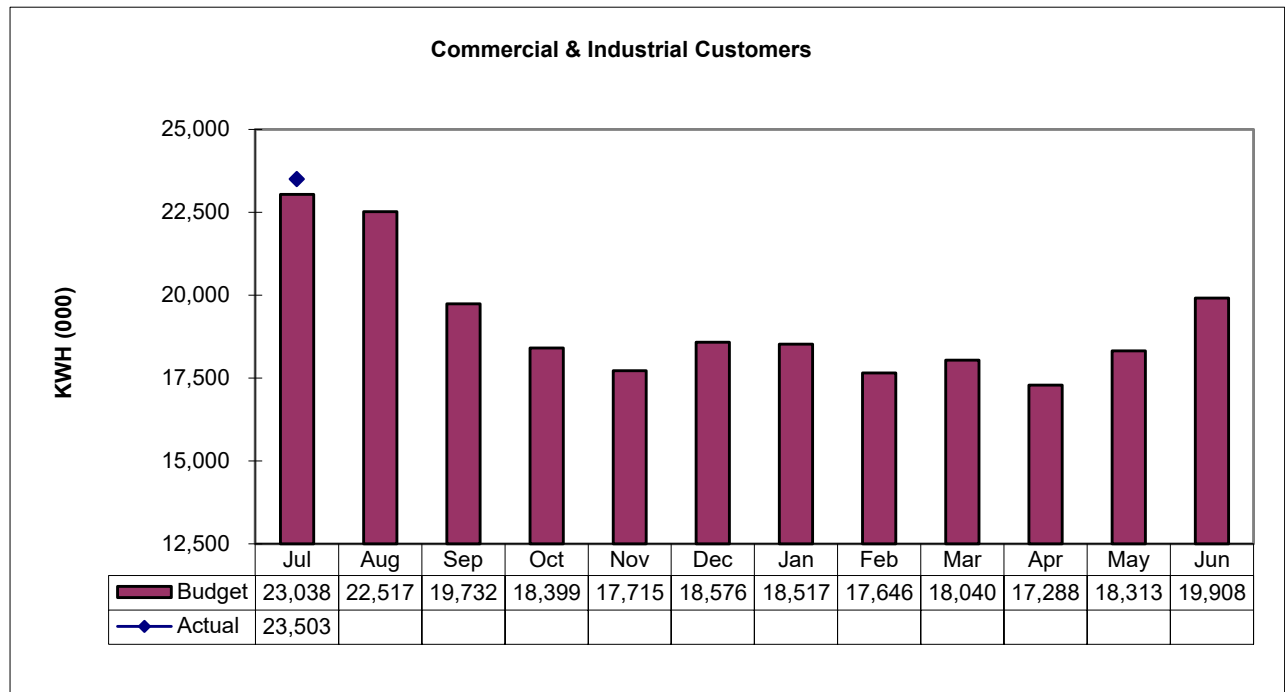
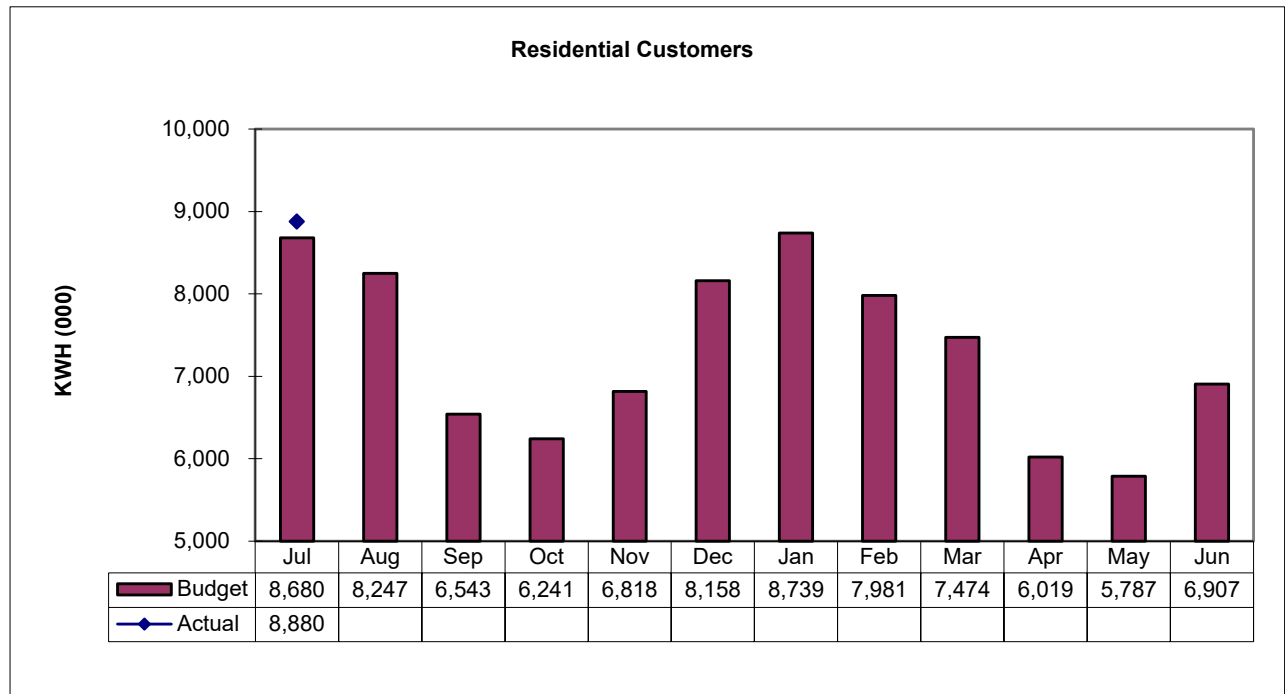


Average Monthly Temperature

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	73	72	64	52	39	29	22	23	32	45	59	67
Actual	74	0	0	0	0	0	0	0	0	0	0	0

CDD/HDD definition per National Weather Service : Degree days are based on the assumption that when the outside temperature is 65°F, we don't need heating or cooling to be comfortable. Degree days are the difference between the daily temperature mean (high temperature plus low temperature divided by two) and 65°F. If the temperature mean is above 65°F, we subtract 65 from the mean and the result is Cooling Degree Days. If the temperature mean is below 65°F, we subtract the mean from 65 and the result is Heating Degree Days.

**Burlington Electric Department
Fiscal Year Ending June 30, 2024
KWH Sales**



Street Lighting is included with Commercial & Industrial Customers.

Net Power Supply Costs **July - FY 2024**

	(\$000)						
	Current Month				Year-to-Date		
	<u>Budget</u>	<u>Actual</u>	<u>Variance</u>		<u>Budget</u>	<u>Actual</u>	<u>Variance</u>
Expenses:							
Fuel (p. 7)	\$983	\$1,279	(\$296)	(1)	\$983	\$1,279	(\$296) (1)
Purchased Power (p.11)	1,422	933	488	(2)	1,422	933	488 (2)
Purchased Power Adjustment (p 11)	43	43	(0)		43	43	(0)
Transmission Fees - ISO	645	567	78	(3)	645	567	78 (3)
Transmission Fees - Velco	115	100	15	(4)	115	100	15 (4)
Transmission Fees - Other	63	61	3		63	61	3
Total Expenses	<u>3,271</u>	<u>2,983</u>	<u>289</u>		<u>3,271</u>	<u>2,983</u>	<u>289</u>
Revenues:							
Renewable Energy Certificates - McNeil	0	0	0		0	0	0
Renewable Energy Certificates - Wind	0	0	0		0	0	0
Renewable Energy Certificates - Hydro	0	0	0		0	0	0
Renewable Energy Certificates - Other	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>
Total Revenues	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>
Net Power Supply Costs	<u><u>\$3,271</u></u>	<u><u>\$2,983</u></u>	<u><u>\$289</u></u>		<u><u>\$3,271</u></u>	<u><u>\$2,983</u></u>	<u><u>\$289</u></u>
 Load (MWh)	32,533	33,319	786		32,533	33,319	786
\$/MWh	\$100.56	\$89.52	(\$11.04)		\$100.56	\$89.52	(\$11.04)

Current Month:

(1) See detail on page 7.

(2) See detail on page 11.

(3) Network Load under Budget.

(4) VELCO Common Charges below Budget.

YTD:

(1) See detail on page 7.

(2) See detail on page 11.

(3) Network Load under Budget.

(4) VELCO Common Charges under Budget.

Net Power Supply Costs
July - FY 2024

	(\$000)							
	Current Month				Year-to-Date			
	Budget	Actual	Variance		Budget	Actual	Variance	
<u>FUEL:</u>								
McNeil:								
Fuel Consumed	676	925	(249)	(1)	676	925	(249)	(1)
Swanton Yard	56	105	(49)	(1)	56	105	(49)	(1)
Train Deliveries	118	151	(32)	(1)	118	151	(32)	(1)
Labor & Other Expenses	115	79	37	(2)	115	79	37	(2)
Total McNeil Fuel	965	1,259	(294)		965	1,259	(294)	
Gas Turbine	18	20	(2)	(3)	18	20	(2)	(3)
Total Fuel	983	1,279	(296)		983	1,279	(296)	

Current Month:

(1) McNeil production 29% over Budget. Wood Price per Ton 7% over 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 production (43 MWh) 19% over Budget.

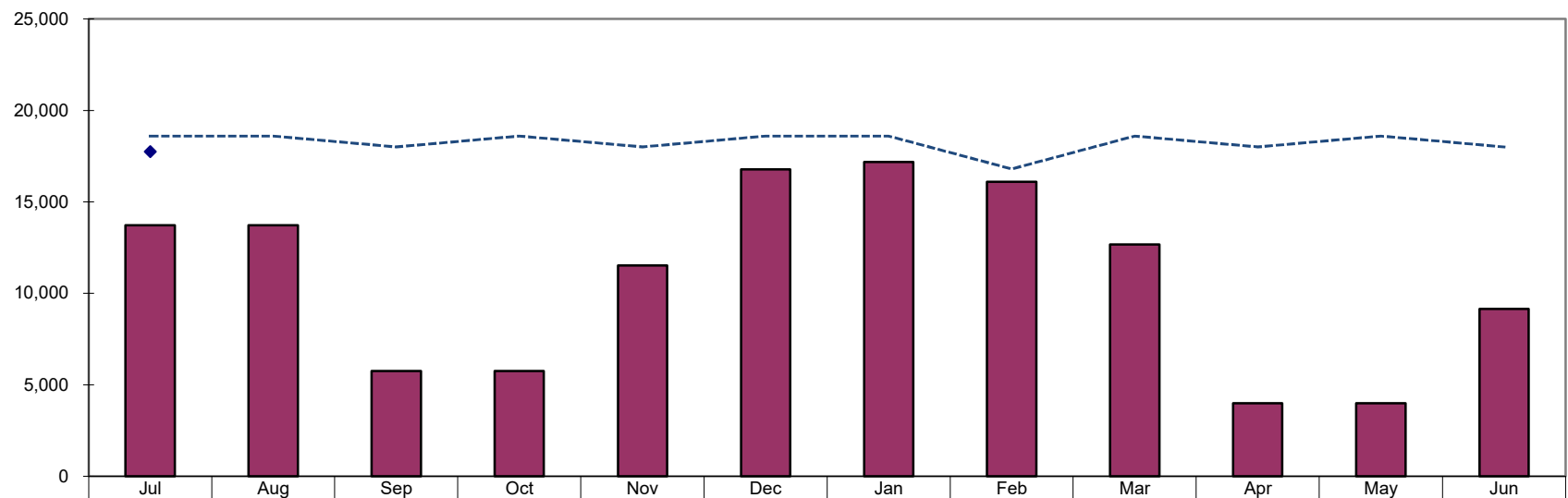
YTD:

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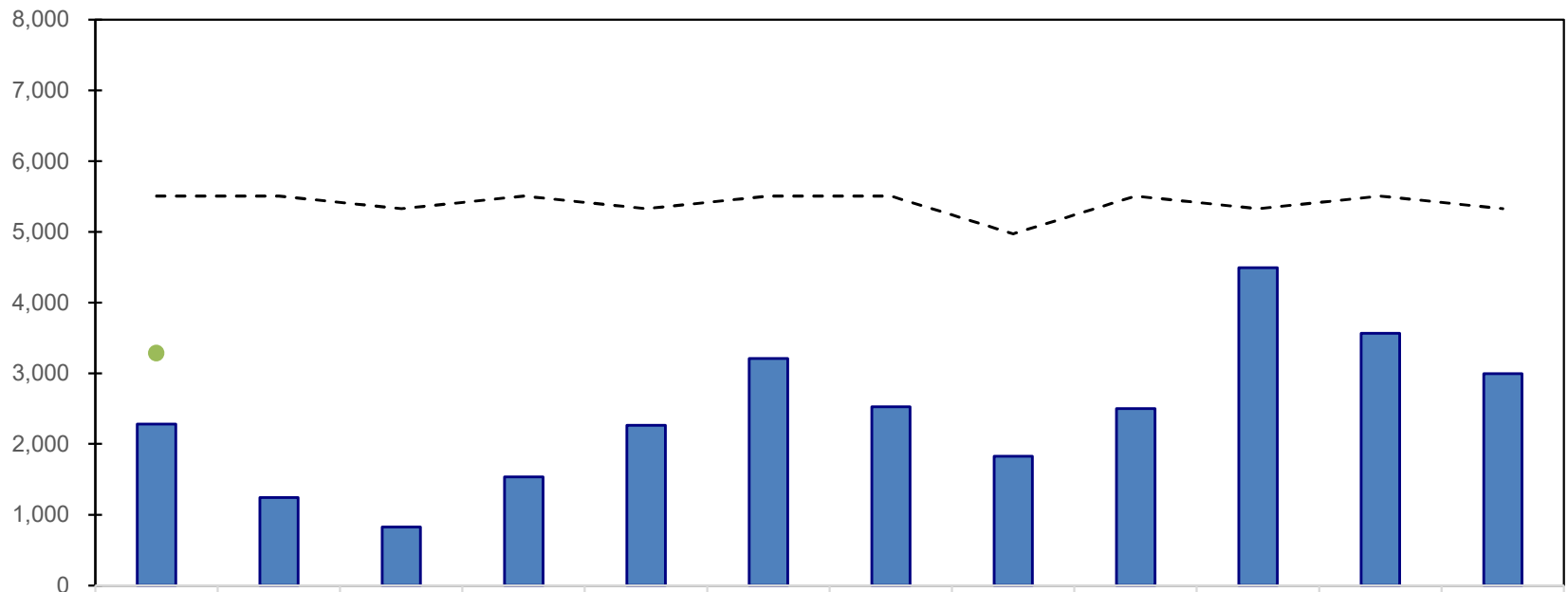
(3) GT production (43 MWh) 19% over Budget.

**Burlington Electric Department
McNeil Plant - MWH Production (50%)
FY 2024**



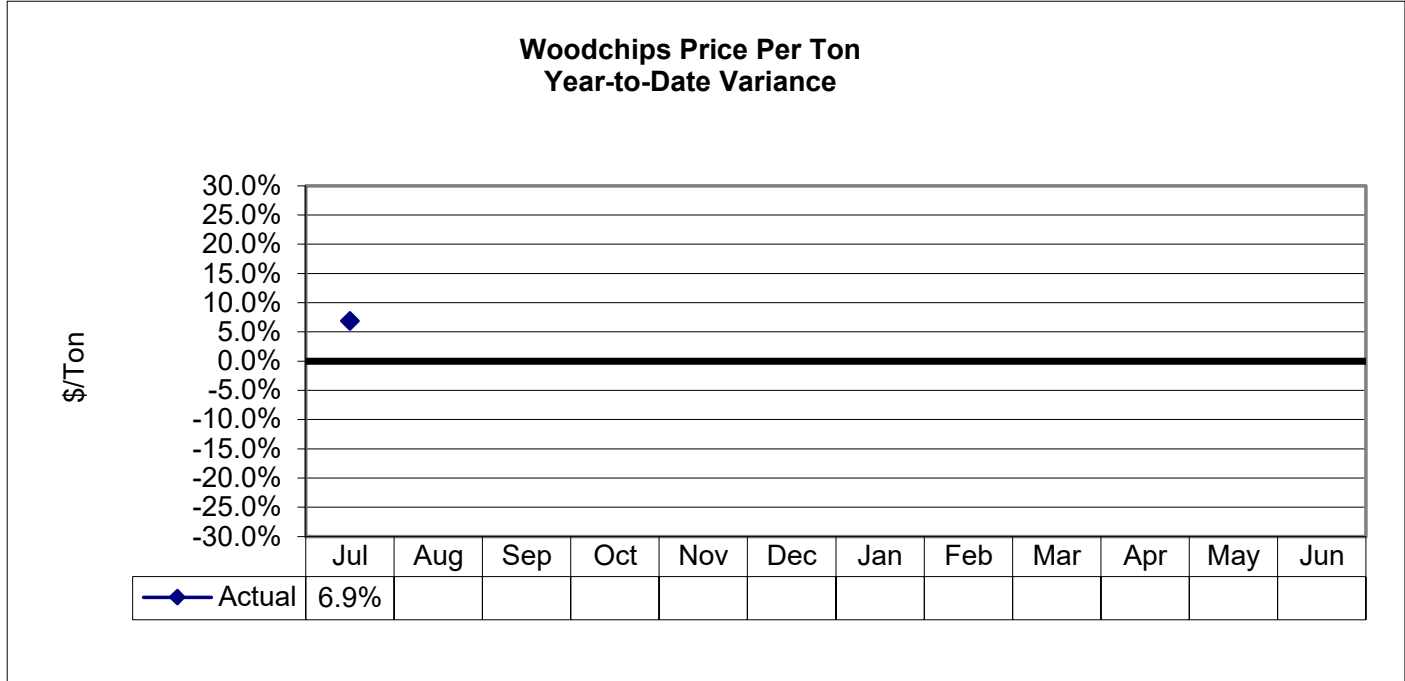
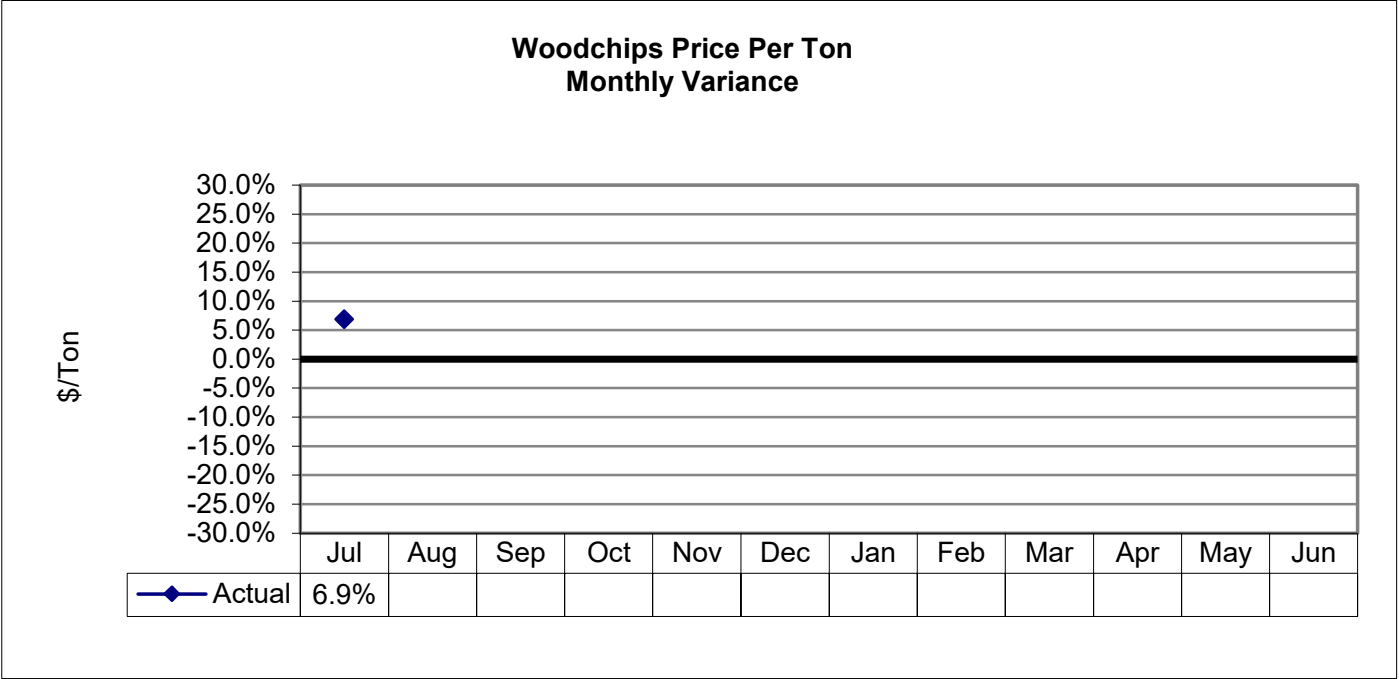
 Budget	13,721	13,721	5,764	5,764	11,529	16,785	17,185	16,113	12,671	3,993	3,993	9,152
 Actual	17,749											
 Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

**Burlington Electric Department
Winooski One - MWH Production
FY 2024**



█ Budget	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
	2,281	1,243	830	1,538	2,263	3,210	2,526	1,829	2,500	4,494	3,568	2,996
● Actual	3,285											
--- Maximum	5,506	5,506	5,328	5,506	5,328	5,506	5,506	4,973	5,506	5,328	5,506	5,328

Burlington Electric Department Fiscal Year 2024



* Wood only. Does not include other costs.

Net Power Supply Costs
July - FY 2024

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
<u>PURCHASED POWER:</u>							
Non-Energy (capacity)	111	71	40	(1)	111	71	40 (1)
Energy:							
Georgia Mountain Wind	197	162	35	(2)	197	162	35 (2)
Hancock Wind	134	77	57	(3)	134	77	57 (3)
VT Wind	125	95	29	(4)	125	95	29 (4)
Hydro Quebec	293	293	0		293	293	0
Great River Hydro	176	176	0		176	176	0
In City Solar Generators	114	87	28	(5)	114	87	28 (5)
NYPA	6	7	(1)		6	7	(1)
ISO Exchange	165	(122)	286	(6)	165	(122)	286 (6)
ISO Exchange Adjustment	43	43	(0)	(**)	43	43	(0) (**)
Velco Exchange	0	(0)	0		0	(0)	0
Total Energy	1,253	818	435		1,253	818	435
Ancillary Charges	(72)	44	(116)	(7)	(72)	44	(116) (7)
Miscellaneous	173	44	128	(8)	173	44	128 (8)
Total Purchased Power Expense	1,465	977	488		1,465	977	488

Special Note ()**

Adjustment to reduce expense and create regulatory asset by amount of ISO Exchange excess winter energy revenue shortfall (\$4,162,233) and record one-eighth (\$520,279) as amortization in FY24.

Current Month:

- (1) Mystic Costs under Budget.
- (2) Production 18% under Budget.
- (3) Production 43% under Budget.
- (4) Production 24% under Budget.
- (5) Production over Budget.
- (6) Production (McNeil (29%) and Winooski One (44%) over budget.
- (7) Forward Reserves provided by GT below Budget.
- (8) Timing: REC Expense reported quarterly, budgeted monthly.

YTD:

- (1) Mystic Costs under Budget.
- (2) Production 18% under Budget.
- (3) Production 43% under Budget.
- (4) Production 24% under Budget.
- (5) Production over Budget.
- (6) Production (McNeil (29%) and Winooski One (44%) over budget.
- (7) Forward Reserves provided by GT below Budget.
- (8) Timing: REC Expense reported quarterly, budgeted monthly.

Burlington Electric Department
Operating and Maintenance Expense by Spending Category
FY 2024 - July YTD

	Budget	Actual	Variance	% Variance	*
Labor-Regular	711,852	690,635	21,217	3%	
Labor-Overtime	41,421	32,812	8,609	21%	
Labor-Temporary	7,200	6,104	1,096	15%	
Labor-Overhead	272,532	271,798	734	0%	a
Outside Services	207,354	136,006	71,348	34%	b
DSM	191,461	50,793	140,668	73%	c
Materials & Supplies	128,955	47,954	81,001	63%	d
Insurance	63,806	62,702	1,104	2%	
A & G Clearing	(25,316)	(120,763)	95,447	377%	e
Other - RPS Compliance	81,065	51,548	29,517	36%	
Other	220,097	245,802	(25,705)	12%	
Operating & Maintenance Expense	1,900,427	1,475,391	425,036	22%	

(a) See page 13.

(b) Timing of various items including Equipment Maintenance at McNeil (\$45,700).

(c) 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.

(d) Timing; McNeil Plant (\$74,900) & Generation (\$5,800).

(e) The credit for A&G ("Admin and General Expenses") charged to Capital projects was higher than planned. This will be adjusted in August.

**Burlington Electric Department
Budget vs Actual Spending Analysis
FY 2024 - July YTD**

Labor - Overhead	(000's)				%
	Budget	Actual	Variance		
Pension	\$151,312	\$133,821	\$17,491	12%	(a)
Medical Insurance	133,250	159,076	(25,826)	-19%	(b)
Social Security Taxes	86,983	75,714	11,269	13%	(a)
Workers Compensation Ins.	29,933	28,399	1,534	5%	(b)
Dental Insurance	7,192	6,432	760	11%	(b)
Life Insurance	1,625	1,505	120	7%	(b)
	\$410,295	\$404,947	\$5,348	1%	

Rates Table:		Budget
Pension		13.33%
Social Security		7.65%

(a) Function of labor cost.

Includes pension per Actuarially Determined Employer Contribution (ADEC), \$1,728,700 and amortization of IBEW Pension back payment, \$87,041.

(b) Budget provided by the City during budget development.

Net Income
FY 2024 - July (\$000)

		Current Month		
	Ref	Budget	Actual	Variance
Operating Revenues				
Sales to Customers	p.3	5,194	5,261	67
Other Revenues		333	129	(204) (a)
Power Supply Revenues	p.6	0	0	0
Total Operating Revenues		5,527	5,390	(137)
Operating Expenses				
Fuel	p.6	983	1,279	(297)
Purchased Power	p.6	1,465	976	488
Transmission	p.6	823	728	95
Operating and Maintenance	p.12	1,901	1,475	426
Depreciation & Amortization		552	500	53
Revenue Taxes		55	52	3
Property Taxes Winooski One		42	42	(0)
Payment In Lieu of Taxes		188	193	(5) (b)
Total Operating Expenses		6,010	5,245	763
Other Income and Deductions				
Interest/Investment Income		41	40	(0)
Dividends		367	367	0
Customer Contributions/Grant Proceeds		10	2	(8) (c)
Gain/(Loss) on Disp of Plant		0	0	0
Other		20	(10)	(30) (d)
Total Other Income & Deductions		438	399	(39)
Interest Expense				
		267	260	7
Net Income				
		(312)	284	596

Current Month:

(a) Energy Efficiency Program cost reimbursement was lower than planned, \$197,000.

(b) Actual Payment in Lieu of Tax (PILOT) is higher than budget assumption by \$26,960 for the year.

(c) Budget assumed customer contributions for blanket overhead and underground projects. Actual includes grant proceeds.

(d) Timing of jobbing unfavorable \$78,000. Offset by unrealized gain on investment \$60,000.

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	July YTD Actual	Variance
McNeil (BED 50% Share)				
Turbine Control System Upgrade/Insurance (314)	250	125	1	124
Routine Station Improvements ¹	186	37	0	37
Wood Handling Front End Loader (316)	183	183		183
Fuel Oil Tank Replacement Containment Area (312)	125			0
ESP Transformer Rectifier Controls Upgrade (312)	125			0
B-Belt Replacement	72			0
Freight Elevator Geared Equip & Controls (311)	40			0
Replacement Rail Cars (392)	38			0
Polisher Beads (312)	30			0
Augers Replaced (312)	30			0
McNeil Replacement Pickup Truck (all electric)	28			0
Cooling Tower Timber Replacement (314)	25			0
Safety Valve Replacements (312)	25			0
Belt Fire Suppression/Insurance (312)	20			0
Bottom Ash Conveyor	17			0
Ash Conveyor Rebuild (312)	12			0
Air Dryer (312)	12			0
Analyzer Upgrades for Chemical Treatment (312)	9			0
Station Tools & Tool Boxes (312)	7			0
End of Life Handheld Radio Replacement (316)	7	2		2
Continuous Emissions Monitoring Repl/Upgrade			53	(53) (a)
Other	20	1	0	1 (b)
Total McNeil Plant	1,262	348	54	294
 (a) Prior year project.				
(b) Budget includes rigging equipment, gas burner upgrade, chemical pump replacement, energy efficiency improvements, furniture & equipment cameras.				
Hydro Production	318	89		89
Gas Turbine	458	81	13	68
Total Production Plant	2,038	518	67	451
 Other				
Direct Current Fast Charger (new locations)	281		1	(1)
EV Charger Installation (Level 2)	108			0
Policy & Planning Research & Dev	26	3	1	2
Public Level 2 EV Charges			12	(12)
Total Other	415	3	13	(10)

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	July YTD Actual	Variance
Distribution Plant-General				
Aerial				
Pole Inspection & Replacement	161			0
Pole P2296 Replacement Flynn Avenue	57			0
Rebuild Austin Dr	68		23	(23)
Replace 2L5 Circuit from P2349-913S	935			0
Rock Point Bridge Guy Wire Relocation (Rock Pt)	40			0
Sunset Cliff Rebuild	53		8	(8)
Total Aerial	1,314	0	31	(31)
Underground				
Install Cables on St Paul St (Bank to Cherry)	86			0
Main St Great Streets	0		4	(4)
Rebuild Ethan Allen Pkwy to 3 Phase	683		1	(1)
Rebuild Summit Ridge	332			0
Replace 2L5 Circuit from 913S to UH #248	812			0
Replace 322/323/324S (Main St and Univ Hts)	239			0
Switch 305S/325S/326S (Main St Reservoir)	252			0
Switch 709S/710S (Battery St - College & Main)	57			0
Switch 817S/912S/913S (Main St Reservoir)	147			0
Total Underground	2,607	0	4	(4)
Customer Driven/City Projects				
Champlain Parkway-Billable	269		33	(33)
Champlain Parkway (CAFC)	(229)			0
Main Street Great Streets			2	(2)
Total Underground	40	0	35	(35)
Other				
ADMS Phase 1-SCADA upgrade (Repl SCADA Sys)	724			0
Communication Equipment Emergency Repair	29			0
Distribution Transformers	631		9	(9)
SCADA Network Switches Replacement	107		6	(6)
SCADA Servers PC's and Monitors	229			0
SCADA Video Display	721			0
Other			6	(6)
Total Other	2,441	0	21	(21)
Total Distribution Plant-General	6,403	0	92	(92)

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	July YTD Actual	Variance
Distribution Plant - Blanket				
Aerial	171	6	9	(3)
Aerial (CAFC)	(65)	(3)		(3)
Underground	371	13	20	(7)
Underground (CAFC)	(135)	(7)		(7)
Meters	105	2		2
Lighting	228	1	61	(61)
Tools & Equipment - Distribution/Technicians	37			0
Replaces Failed SCADA Field Equipment	23			0
Substation Maintenance	17			0
Gas Detectors	5			0
Pulling Rope Amsteel Blue	7			0
Total Distribution Plant - Blanket	763	11	90	(79)
 Total Distribution Plant	7,166	11	182	(171)
 General Plant				
Computer Equipment/Software	902	25	33	(9) (a)
Vehicle Replacement	259		824	(824) (b)
Buildings & Grounds	176	12		12 (c)
AED Purchase	7			0
Total General Plant	1,343	37	857	(821)

(a) Budget includes replacement iPads for line crew and Pole Mount Routers. Actual includes IT Forward, \$24,200 and other projects (AS400/CIS upgrade & Pole Mount Routers).

(b) Timing; full year budget includes All Electric Bucket Truck net of grant and two all electric pickup trucks.

(c) Budget includes new gate motor controller.

Sub-Total Plant	<u>\$10,962</u>	<u>\$569</u>	<u>\$1,119</u>	<u>(551)</u>
Add: CAFC* reclass to "Other Income"	428	10	0	10
Total Plant	<u><u>\$11,391</u></u>	<u><u>\$579</u></u>	<u><u>\$1,119</u></u>	<u><u>(541)</u></u>

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2024 Monthly Ending Balance

