

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

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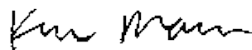
***To be held at Burlington Electric Department (and)***  
***Via Microsoft Teams***  
**[+1 802-489-6254](tel:+18024896254)**

Conference ID: 295 615 914#

**AGENDA**  
**Regular Meeting of the Board of Electric Commissioners**  
**Wednesday, March 08, 2023 – 5:30 p.m.**

- |  |                |
|--|----------------|
| 1. Agenda                                  | 5:30 (5 min.)  |
| 2. Minutes of the February 8, 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 (10 min.) |
| 6. Financials: FY23 January                | 6:00 (10 min.) |
| 7. IRP Update #2 (Discussion): J. Gibbons  | 6:10 (10 min.) |
| 8. Commissioners' Check-In                 | 6:20 (5 min.)  |

Attest:



\_\_\_\_\_  
Katie Morris, Temporary 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](mailto: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 03/08/23 meeting)

**\*\*\* FYI \*\*\***

- Minutes of the February 8, 2023 Meeting
- February 2023 Monthly Report
- Dashboard
- FY23 January Financials



To: Burlington Board of Electric Commissioners  
From: Darren Springer, General Manager  
Date: March 3, 2023  
Subject: **February 2023 Highlights of Department Activities**

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### **General Manager**

- **Legislative Update**

- **Renewable Energy Standard proposal from Renewable Energy Vermont (REV) –**

As noted in the last report, REV announced as part of their legislative proposal some language on wood energy that would be problematic for McNeil. After issuing our statement with IBEW opposing this change, we worked with REV and environmental organizations and the bill that was ultimately introduced (H.320) will continue to allow McNeil to count towards Vermont's renewable energy targets and will ensure changes at McNeil to accommodate district energy would not negatively impact its eligibility. They proposed some new standards for new plants that would not affect McNeil.

We continue to have major cost concerns with REV's bill, but on wood energy at least there was some positive progress. I discussed this and a number of other issues on Morning Drive in late February, and BED is joining several other public power utilities in publishing a commentary raising concerns with proposed changes to Vermont's renewable policies from cost and GHG reduction standpoint.

- **Act 151** – We testified in favor of an Act 151 extension, and the Committee's bill draft in Senate Natural Resources and Energy includes language proposed by BED that would support additional funding for some of our Net Zero Energy programs and initiatives, drawn from the same funding source that currently has supported district energy feasibility work (which will wind down over the next several months as we hopefully reach a stage for financing and construction).
- **Budget** – FY23 budget remains severely challenged by warmer than expected weather, leading to a significant negative variance at the moment. BED is working on several strategies to preserve cash and mitigate power market challenges through strategic deployment of McNeil for remainder of FY23. Development of FY24 budget ongoing. We'll discuss in more detail during financial presentation at the March meeting.
- **District Energy Update** – Act 250 Jurisdictional Opinion request resulted in needing a full permit application. Local counsel is working to prepare that for the Burlington District Energy non-profit. The non-profit has received 501c3 designation from the IRS.

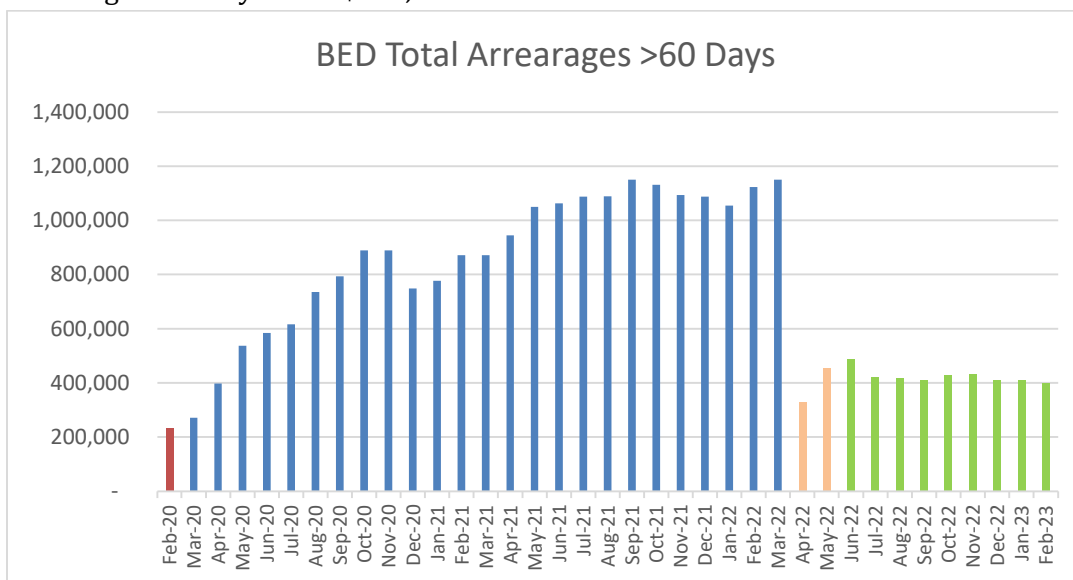
- **Ballot Item 2** – There is a new effort from a group called Stop VT Biomass to oppose ballot question 2 on the basis that it does not place a fee on renewable fuels such as renewable gas, biodiesel, and district heat. I'll provide some context on why Burlington's current definition of renewable thermal includes renewable fuels during the GM update at the March meeting. Jen Green and I filmed a discussion on ballot item 2 for Town Meeting TV, and Jen hosted a podcast with Building Electrification Institute (BEI) that is now available on our website that details the policy development work that went into BED and Department of Permitting and Inspections report from December 2022.
- **Net Zero Update** – Working with Synapse to get updated 2022 Roadmap metrics, which will hopefully be available by April.

### **Center for Innovation - Emily Stebbins-Wheelock**

- Acting supervisor of Finance & Accounting and Billing staff; recruiting for Controller position.
- Coordinating efforts to track and respond to federal IIJA and IRA funding opportunities.
- Sponsoring new internal work groups re EV chargers and net metering.
- Overseeing 2022 rate case development/implementation.
- Continued sponsorship of IT Forward implementations.

### **Finance & Accounting**

- Monitoring FY23 net income and cash position.
- Continued work on FY24 budget development.
- New staff completed APPA Work Order & Asset Management training.
- Monitoring receivables in response to COVID19: as of February 28, 2023, BED's total non-current receivables had increased \$19,952 or 2.8% compared to the end of January 2023. Arrearages >60 days were \$400,448.



## **IT**

- Ongoing phishing and security testing of our users.
- New Itron pole-mounted routers have arrived to replace the AMI cell relays. Configuration work is in progress to deploy throughout the spring and summer.
- Server migration to VELCO data center is 90% complete.
- Continued support of SCADA/ICCP projects and infrastructure.
- Ongoing work towards MDMS project go-live.
- Responded to and mitigated several zero-day vulnerabilities.
- Kicked off MS Teams reorganization project.

## **Policy & Planning**

- FY24-FY28 budget preparation.
- Revised Burlington District Energy steam pricing proposal.
- Submitted responses in PUC low-income rate docket.
- Responded to PUC discovery re: Moran Frame liability in accounting order and 2022 rate case dockets.
- Net metering rate filings.
- Received encouragement letter for IIJA GRIP grant application; attended webinar.
- Participated in 2023 DeltaClimeVT cohort selection.
- IRP work continuing; Statement of Work draft and meeting with INRS on McNeil economics and carbon.
- Sent NH REC market questions to NH PUC.
- Changes to induction cooktop Tier 3 program.
- Legislature monitoring and testimony (transportation, RES, etc.).
- DES/DPW coordination meetings.
- Solar Test Center at McNeil construction.
- Winooski One relicensing project started – meetings with Energy Services and Washington, D.C. counsel.
- UNH Fellowship interviews and selection.
- Continuing removal of Packetized Energy WH Control Devices.
- WRAP tariff approved.
- 2024–2026 Demand Resource plan discussions ongoing; filing revisions to plans.

## **Sustainability & Workforce Development**

- Worked with Communications & Technology Specialist, Adam Rabin, to edit and post a new podcast episode featuring Steve Conant, owner of the Soda Plant and BTV 2030 District member. Also worked with Adam and the Building Electrification Institute team to edit and post a podcast on Town Meeting Day ballot item #2, the Carbon Impact Pollution Fee.
- Orchestrated monthly Lunch and Learn on the role of the Energy Efficiency Utility and why it supports Burlington's 2030 District. Included Chris Burns, Burlington 2030 District Director Jenna Antonio DiMare, and VGS's Tim Perrin.

- Joined the first session of Clean Energy to Communities working group hosted by World Resources Institute.
- Submitted Emergent Learning Fund proposal to support non-profit bike shop partner Old Spokes Home and their development of an inclusive bike workshop for BIPOC and low-income customers.
- Facilitated monthly project meeting of the Vermont Low Income Trust for Electricity (VLITE) funded effort to expand EV access for low-income residents through car sharing and enhanced charging infrastructure. Moved legal agreement between CarShareVT and the City of Burlington through the signatory process and reported on electrification of ONE Community Center's 2 spaces, including one for the exclusive use of CarShareVT.
- Drafted FAQ sheet on Town Meeting Day ballot item #2 on the Carbon Impact Pollution Fee for distribution through Mayor's Office. Joined GM Springer on Town Meeting TV to discuss ballot item #2.
- Participated in the Burlington 2030 District Executive Steering Committee meeting.
- Joined UVM class on tour of McNeil. Discussed McNeil's role in NZE and the wider efforts to transition away from fossil fuels.
- Attended Renewable Energy Vermont Annual Meeting planning event, including brainstorming on conference theme and prospective keynote speakers.
- Held meeting with Champlain College Eco-Reps to discuss NZE, the role of Champlain in the BTV 2030 District, and to encourage student action around fossil fuel reduction.
- Met with Policy and Planning to review GRIP End Use Metering and Flexible Load Management proposal requirements, including community engagement and benefits plan; drafted template Letters of Support for stakeholders and prospective project collaborators.
- Joined monthly meeting with DPI, VGS, and Energy Services team on the Rental Weatherization Ordinance, including progress and next steps and first meeting of on-going Equity and Energy meetings with BED, EVT, and VGS.
- Continued outreach to stakeholder groups and community members, including efforts to determine what BED materials would be most useful to translate. Coordinated with Communications team on City's Language Access Policy and how BED will abide.
- Attended UVM Science Technology Engineering and Mathematics Career Fair with the Department of Public Works to promote career opportunities at BED and within the City of Burlington.

### **Center for Safety and Risk Management – Paul Alexander**

#### **Safety**

- Conducted Operational Safety Meeting.
- Conducted Safety Briefing with General Manager.
- Participated in Working Crew Leader interview.
- Participated in Apprenticeship Committee.
- Performed safety update for Labor Management Committee.
- Participated in BED Safety Committee monthly meeting.
- Conducted fire extinguisher inspections for 585 Pine Street.

- Conducted substation inspections for first-aid kits and fire extinguishers.
- Conducted Operational & Generation Field Audits.
- Submitted Draft Expense & Capital section of RC48 Safety FY24 Budget.
- Continue to perform COVID-19 mitigation measures.

### **Environmental**

- Supervised waste pickups at the Gas Turbine, McNeil, and 585 Pine Street facilities.
- Submitted Tier II and Emissions Inventory Reports.
- Conducted kick-off meeting about the CEMs replacement project.
- Conducted RFP walkthrough for outage work.
- Submitted bi-annual wastewater report.
- Finished draft update of the Lock Out Tag Out manual for BED generating assets.

### **Risk Management**

- New Claims Investigations: (2 total - 1 Property, 0 Liability, 1 “Other”).
- Continued research/correspondence/communication on COVID -19 issues.
- Attended BED lighting policy meeting.
- Reviewed and responded to ERUV-VT Pole Attachment License (PAL).
- Attended kickoff meeting on Winooski One 40th year relicensing permit.
- Attended two VT State Attorney pole claim hearings.
- Created agenda and chaired BED’s Safety Committee (BSC).
- Finalized work on the Building Evacuation Policy (BCP) and put updated postings up at 585 Pine Street.
- Met City’s new Racial Equity, Inclusion, & Belonging (REIB) Director.
- Completed APPA survey.
- Reviewed history of North Road/Electric Avenue/Burlington 40th LLC for Champlain Parkway.
- Reviewed Positional Risk Doctrine for Workers’ Comp.
- Completed extensive work on finalizing FY24 expense & capital for RC78 and reviewed and submitted RC42/RC48 budgets.
- Reviewed temp agency Workers’ Comp language in agreement/contract.
- Reviewed final PUC questions regarding the Frame Project and Moran history.

### **Purchasing/General Services**

- Worked on capital budget and reviewed with Paul Alexander.
- Participated in the monthly Pine Street Safety Committee meeting.
- Participated in Labor Management Committee monthly meeting.
- Processed monthly purchase requests and inventory re-order reports.
- Worked on a solution to the 585 Pine Street breezeway water leak that occurred.
- Worked on building evacuation routes for 585 Pine Street and getting updated sheets posted throughout the building.

**Center for Safety & Reliability – Munir Kasti**

- Acting Supervisor of Grid Services staff.
- Acting Supervisor of Generation staff.
- Accepted resignation of Enis Sehovic as Senior Protection Engineer effective March 3, 2023.

**Operations**

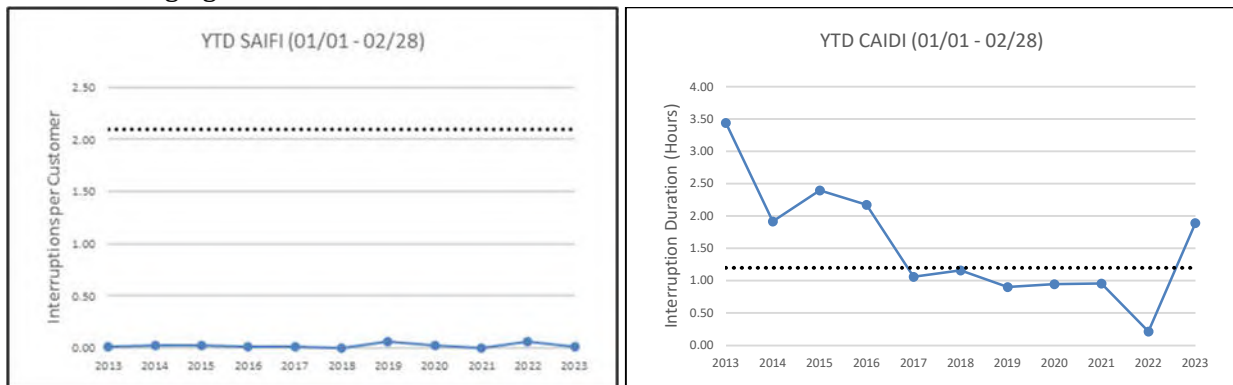
- Completed installation of new LED streetlight fixtures on University Place and removed old wooden poles.
- Completed undergrounding the Morse Place and Briggs Street crossing section of Champlain Parkway, including removal of all the associated overhead primary and secondary conductors for this section.
- Completed all pole sets on the Flynn Avenue, Morse Place, and Lyman Avenue sections of Champlain Parkway while SD Ireland completes civil work.
- Continued work on the 1L2 feeder cable upgrade to the College Street substation. This included a small outage to allow crews to pull in new conductors. Work is currently paused due to a shortage in 1000 MCM cable and will continue once it arrives.
- Completed contracted replacement of a failed utility hole cover at the UVM Hills Life Science building on Carrigan Drive. A second 4-hour outage for this building has been scheduled in March so that we can transfer service to a new transformer.
- Continued undergrounding the services to Lyman Avenue. Crews have pulled all cable and are currently transferring services to the new underground system. Note that the lighting on this job will not be completed until Spring 2023.
- Resumed work on the Heineberg Road project after receiving the 556 aerial wire needed for completion.
- Crews are close to completing installation of a new transformer and aerial feed for the new 585 Pine Street parking lot car charger. This is expected to be completed in the first week of March.
- Scheduled a 2-hour outage on Bank and Center Streets to replace bad connectors in utility hole #62.
- Assisted the Winooski One personnel in retrieving the fish ladder to prepare for Spring.
- Installed and commissioned new underground switch at Battery Street and Pearl Street.
- Ordered two new underground switches for Main Street Reservoir.
- Ordered a new underground switch for Main Street and University Heights.
- Ordered a new underground switch for Battery Street between College Street and Main Street.
- Osmose Utilities Services began pole inspections to be completed by the end of May 2023.
- Started design of upgrade to streetlighting on South Prospect Street between Main Street and Colchester Avenue.
- Completed service to new shelter pods on Elmwood Avenue.
- Issued work and design order for new underground feed to Cambrian Rise Building M.
- Issued work and design order for new service at 1 Railway Lane.
- Installed a new underground vault for a new service at 157 South Champlain Street.
- Completed 100 Bank Street temporary service for City Place. Started design of new lid for utility hole #33 for City Place new service.

- Started tree trimming for rebuild of circuit on Sunset Cliff Road. Waiting on final two easements from residents to begin civil and electric work.
- Continued work with Burlington Department of Public Works on pole relocation for replacement of the Rock Point pedestrian bridge.
- Completed estimate for new three phase service at 102 Archibald Street.
- Congratulations to Ciaran Canavan on his promotion to Working Crew Leader I.

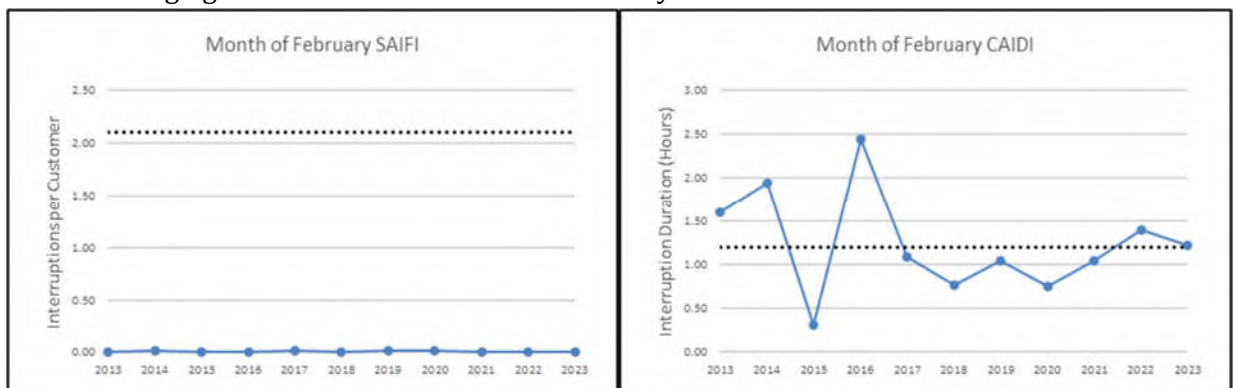
**SAIFI & CAIDI Outage Metrics:**

BED's distribution system experienced 17 outages in February 2023 (1 unscheduled and 16 scheduled). BED's SAIFI for the Month of February was 0 interruptions per customer and CAIDI was 1.22 hours per interruption. BED's YTD SAIFI is 0.01 interruptions per customer and YTD CAIDI is 1.89 hours per interruption.

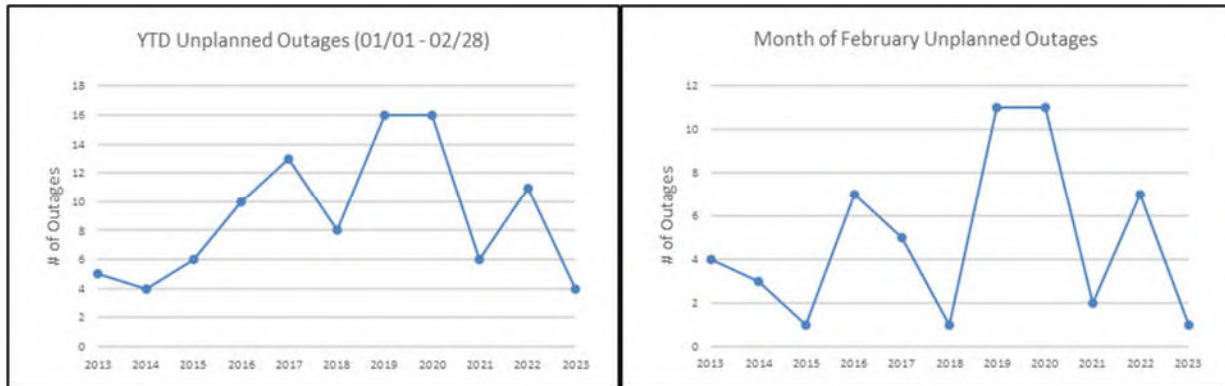
The following figure shows BED's historical YTD SAIFI and CAIDI:



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



The following figure shows BED's historical Unplanned Outages:



## Generation

### McNeil Generating Station

Month Generation:	29,391 MWh
YTD Generation:	59,425 MWh
Month Capacity Factor:	87.47%
Month Availability:	99.9%
Hours of Operation:	672 hours

This month at McNeil we conducted miscellaneous repairs. The supervisors, station operators, and shift supervisors conducted joint training with other entities for system restoration. Performed preparatory work for our Spring outage.

### Winooski One Hydroelectric Station

Monthly Generation:	2,488.799 MWh (118% of average)
YTD Generation:	6,097 MWh (131% of average)
Month Capacity Factor:	50.05%
Annual Capacity Factor:	58.19%
Month Availability:	99%

This month at Winooski One we conducted miscellaneous repairs, attended a joint training exercise for system restoration, and scheduled rake boom repairs to be conducted on 3/6/23.

### Burlington Gas Turbine

Month Generation:	4.745 MWh
YTD Generation:	4.745 MWh
Month Capacity Factor:	0.031%
Month Availability:	0.090%
Hours of Operation Unit A:	0.7
Hours of Operation Unit B:	0.7

The asset has been out of service since 7/20/22 undergoing troubleshooting and repairs due to the

forced outage resulting from the failed power turbine (PT) A coupling shim pack. In total, four PT and generator bearings, associated with both PT A and PT B, along with the East and West generator bearing seals were found to be out of tolerance after the failure event and in need of repair and machining. Initial commissioning activities including a test run has occurred and vibration and alignment data analysis is being performed before additional commissioning activities proceed. Based on present known remaining commissioning activities required to place the asset back in service, the asset is expected to be available for operation in March 2023. The asset is unavailable for operation at the end of the month.

### Solar (Pine Street 107 kW)

Month Generation: 3.0 MWh (-4% from previous year)  
 YTD Generation: 4 MWh  
 Month Capacity Factor: 4.4%  
 Month Availability: 100%

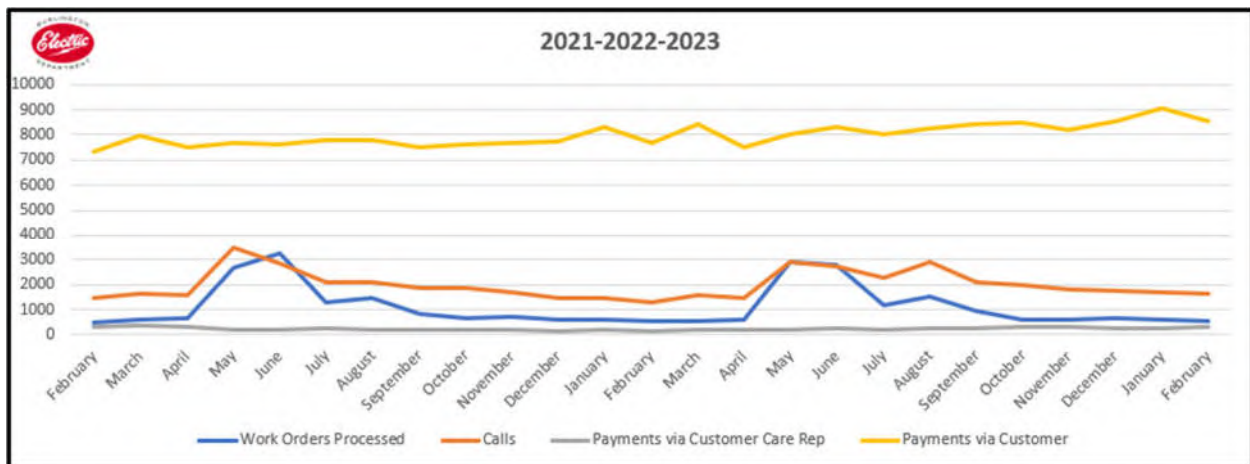
### Solar (Airport 499 kW)

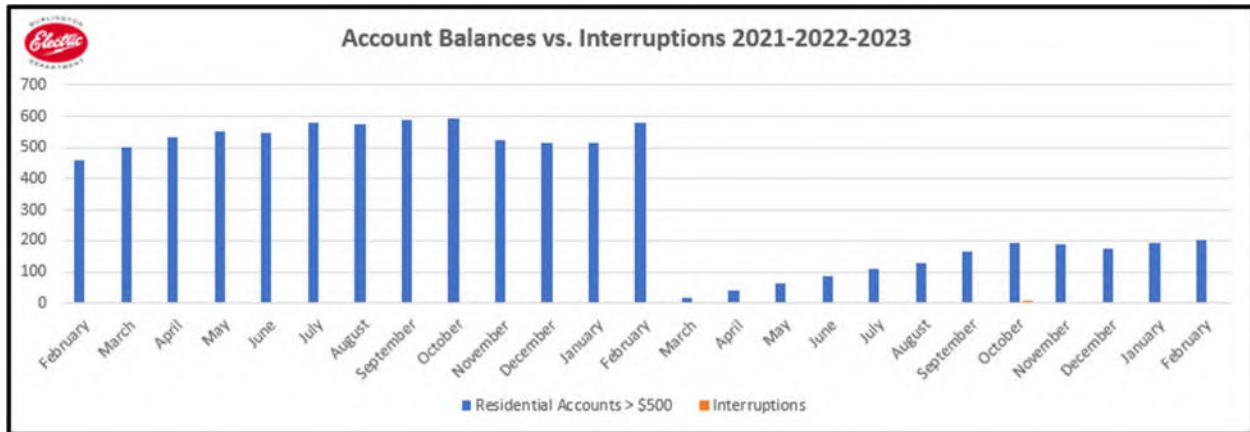
Month Generation: 15.7 MWh (-41% from previous year)  
 YTD Generation: 24 MWh  
 Month Capacity Factor: 4.9%  
 Month Availability: 100%

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

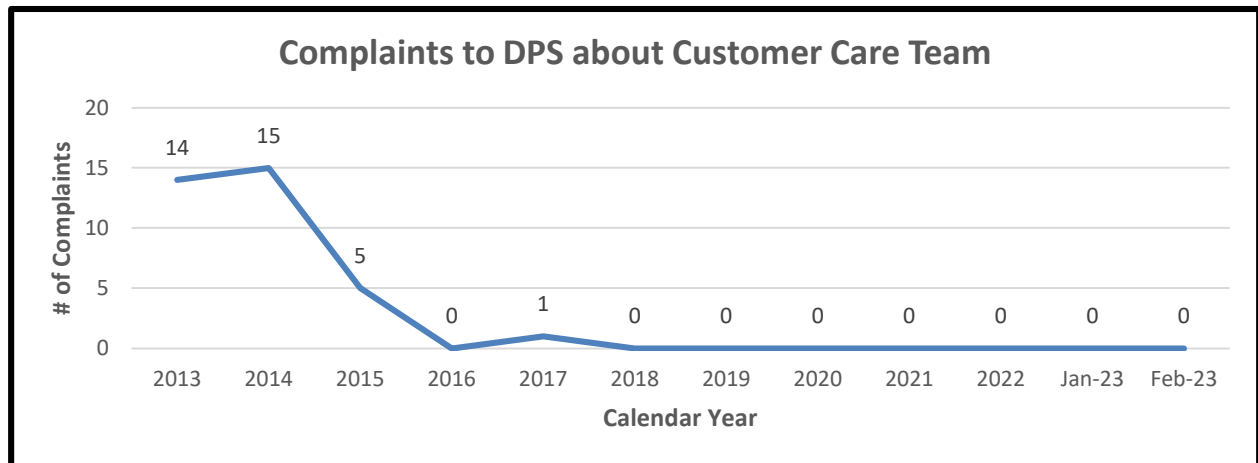
#### Customer Care

- **Call Answer Time (75% in 20 seconds):** February 2023 88.9%, January 85.4%, December 2022 87.5%, November 83.5%, October 85.7%, September 81.4%. February 2022 85.2%, January 83.9%, December 2021 84.6%, November 85.2%, October 77.7%, September 82.4%.
- **February 2023 Stats:** please see dashboard for additional metrics categories.





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



### Communications and Marketing

- **Radio Engagement:** on February 21, 2023, GM Darren Springer was on WVMT's The Morning Drive radio show talking about McNeil Generating Station and district energy, carbon pollution impact fee (ballot questions #2), legislative issues, including the Renewable Energy Standard, Net Zero Energy by 2030 goal, BED's electrification incentives and the federal Inflation Reduction Act, and more.
- **Community Engagement:** during the week of February 27, BED's Andrew Watson and David Seymour (Lineworkers) and Adam Rabin (Communications & Technology Specialist) represented us at ECHO, Leahy Center for Lake Champlain's Circuit Circus where they presented PowerTown, our high voltage demonstration model that educates viewers about the hazards of electricity and how the grid operates.
- **BED Annual Report:** our yearly update was included in the City of Burlington Annual Financial Report that will be distributed at the polling places on Town Meeting Day and soon will be available on the [City website](#).

- Energy Assistance Program: monthly bill credit program to offset by 12.5% the rate increases (3.95% proposed this year and 7.5% last year) began July 1, 2022 – boost to former Temporary Energy Assistance Program of 7.5%. Last year’s participants in Temporary Energy Assistance Program of 7.5% automatically enrolled in new program. So far, nearly 160 customers have applied. Customers can learn about eligibility requirements and apply by visiting [burlingtonelectric.com/rates](http://burlingtonelectric.com/rates).
- Vermont Emergency Rental Assistance Program (VERAP - [erap.vsha.org](http://erap.vsha.org)): VERAP helps tenant households with paying rent, as well as paying utility and home energy costs. While December 31, 2022 was the last date to apply for assistance, the state will continue to provide certain levels of assistance for the most vulnerable Vermonters through June 2023. BED so far has received \$1.162M in funds awarded to its customers.
- 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. So far, BED has certified 85 applicants and received \$38k in payments.
- North Avenue News: our March column promoted our Net Zero Energy podcast, the new Weatherization Repayment Assistance Program, and our 2023 rebates. We did not place an ad in the February NAN.
- Website and Facebook Highlights
  - Overall site-wide pageviews for February 2023 = 31,290\*
    - January 2023 = 40,165 \*
    - December = 20,272
    - November = 21,290
    - October = 21,797
    - September = 22,639
    - August = 27,972
    - July = 23,885
    - June = 24,859
    - May = 29,609
    - April = 28,428
    - March = 23,967
    - February = 17,126
    - January = 19,000
    - December = 18,374
  - Unique homepage pageviews for February 2023 = 15,040\*
    - January 2023 = 21,866 \*
    - December = 8,207
    - November = 7,371
    - October = 6,762
    - September = 6,921
    - August = 8,895

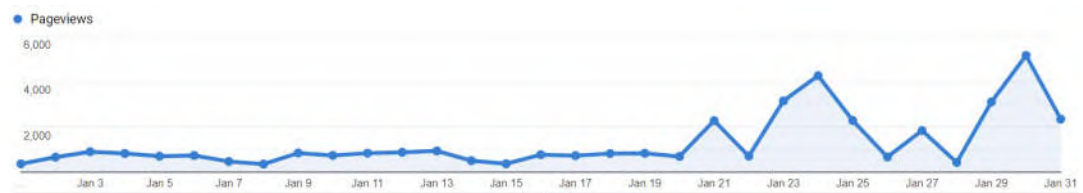
- July = 8,565
- June = 7,860
- May = 8,211
- April = 7,499
- March = 7,282
- February = 5,831
- January = 6,380
- December = 6,346

- Full site visits for February 2023



\* Still trying to determine explanation for the spikes (in above and below graphs), which appear to be organic. Does not appear to be spammers, as there were no reported problems with site performance.

- Full site visits for January 2023





- Visitors by website page



page title	Feb 2023	Jan 2023	Dec 2022	Nov 2022	Oct 2022	Sep 2022	Aug 2022	July 2022	June 2022	May 2022	Apr 2022	Mar 2022	Feb 2022	Jan 2022
Burlington Electric Department	19854	26553	8207	7134	7730	8080	10549	8565	9206	9740	7384	8777	6657	7237
My Bill	2512	2735	2445	2520	2862	2850	3201	3113	3207	2811	2519	2758	2585	3122
Waste Wood Yard	259	593	590	1234	1332	920	1034	1070	1386	1928	1999	653	237	527
Report A Problem	74	82	871	167	120	455	1646	103	188	233	189	516	70	95
Stop or Start Service	230	289	273	294	348	407	841	738	951	2184	464	323	202	248
E-billing	240	280	234	241	319	330	362	443	524	287	234	266	266	340
Contact Us	514	474	473	507	510	553	862	530	654	784	489	555	360	445
McNeil Generating Station	334	396	393	614	699	624	410	425	482	648	726	557	255	374
Heat Pumps	421	519	408	883	508	435	579	589	490	638	512	559	331	382
Rebates	562	860	554	584	588	627	689	1129	754	920	636	917	488	450
Rebate Center	595	732	524	617	609	597	876	852	934	1026	688	732	508	549
Rebates for 2023	219	333	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Green Stimulus	n/a	28	22	36	19	66	32	37	29	50	53	121	49	57
Stop or Start Service	230	289	273	294	348	407	841	738	951	2184	464	323	202	248
Leadership Team	191	249	178	202	216	224	206	159	174	185	284	269	237	265
Rates & Fees	169	209	201	226	226	289	228	225	208	254	220	246	180	221
Usage Tracker Registration	115	118	112	124	120	124	177	118	128	113	77	145	120	156
RFP	316	498	413	374	516	419	268	225	335	268	211	534	597	362
Residential   Ways to Save	123	125	134	125	133	142	187	194	199	249	171	155	146	147
Electric Vehicles	431	492	331	356	295	355	497	483	324	273	274	356	296	222
E-Bikes	114	118	76	107	151	173	292	375	202	260	167	206	89	78
Net Zero Energy News	23	33	40	48	40	37	25	25	32	24	57	27	30	33
Electric Vehicles	431	492	331	356	295	355	497	483	324	273	274	356	296	222
Our Energy Portfolio	85	70	49	65	74	57	102	90	55	80	79	124	54	58
Lawn Care	79	120	67	71	123	110	135	249	259	472	121	149	31	n/a
RFP Detail	274	622	195	241	533	214	143	35	93	151	110	422	413	214
Defeat The Peak	3	13	8	9	12	15	333	242	15	25	9	16	11	8
Commercial   Ways to Save	28	34	46	49	38	31	40	46	48	43	42	63	45	30

\*Note new Rebates for 2023 page replacing Green Stimulus page.

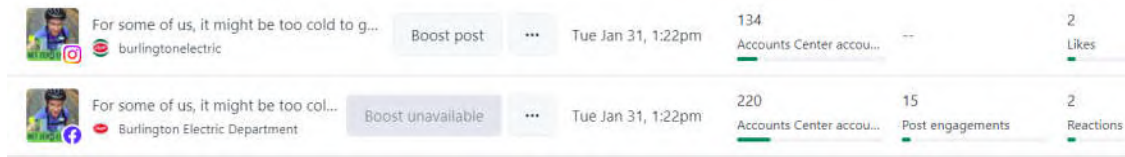
- Top-performing February Facebook posts: BED participating at ECHO Center's Circuit Circus event; Darren Springer joining Lund board.

	While your kids are on break this ... Burlington Electric Department	Boost unavailable	...	Mon Feb 27, 10:05am	412 Accounts Center accou...	7 Post engagements	2 Reactions
	The BED Team is proud of our GM ... Burlington Electric Department	Boost unavailable	...	Fri Feb 24, 4:00pm	508 Accounts Center accou...	26 Post engagements	6 Reactions

- Top-performing January Facebook posts
  - Announcement of policy proposals at Hula

	Yesterday, Mayor Miro Weinberger, #BTV... burlingtonelectric	Boost post	...	Wed Jan 25, 8:54am	199 Accounts Center accou...	--	10 Likes
	Yesterday, Mayor Miro Weinberge... Burlington Electric Department	Boost unavailable	...	Wed Jan 25, 8:54am	256 Accounts Center accou...	18 Post engagements	3 Reactions

○ Podcast episode with Jon Copans from Old Spokes Home



## Energy Services

### UVM

- Southwick and Waterman HVAC Retrofits – Working with UVM staff on possible upgrades in these two buildings.

### UVMHC

- Secondary Chilled Water Balancing – The Miller Building addition created a significant new load on the central chiller plant. To optimize chiller efficiency, the chiller secondary loop needed to be re-balanced so optimal differential pressures can be maintained. This project was initiated in late 2019, but COVID-19 created a lengthy delay in implementation. The balancing process has now been completed for several months. BED has received sufficient DDC trend data to finish the energy savings estimate and we have now communicated a final rebate offer to the customer.
- High Bay Fixture Replacement – The upcoming elimination of the use of 4-foot fluorescent fixtures in Vermont has caused the hospital to purchase 1,000 new high-bay LED fixtures. The intent is to replace a portion of this older technology lighting, especially in many of the ACC interior spaces.

### Other Services

- Weatherization coordination with VGS - VGS requested electrical account usage histories (with customer permission) for two single family and three multi-family buildings (representing 11 living units) this month for the purpose of weatherization audit preparation and building energy use analysis. This brings the total YTD (2021-2023) requests to 162 single family and 127 multi-family buildings. The overall increase in multi-family building interest in the VGS weatherization program is being driven by the Burlington rental housing weatherization ordinance.
- We continue to collaborate with VGS staff to target Burlington multi-family buildings that have received a VGS audit, analysis, and incentive offer but have not moved forward with their projects. These buildings will fall under the weatherization ordinance in the next several years. The focus for approaching this group and encouraging them to act is to add a supplemental BED incentive where appropriate.
- Green State Gardener Indoor Cannabis Grow Facility – This company on Pine Street has nearly finished the process of fitting-up an existing portion of their building (600 square feet) into an indoor cannabis growing facility. BED is working with EVT and their customized energy modeling software to compare a baseline grow facility to the facility as it is designed and

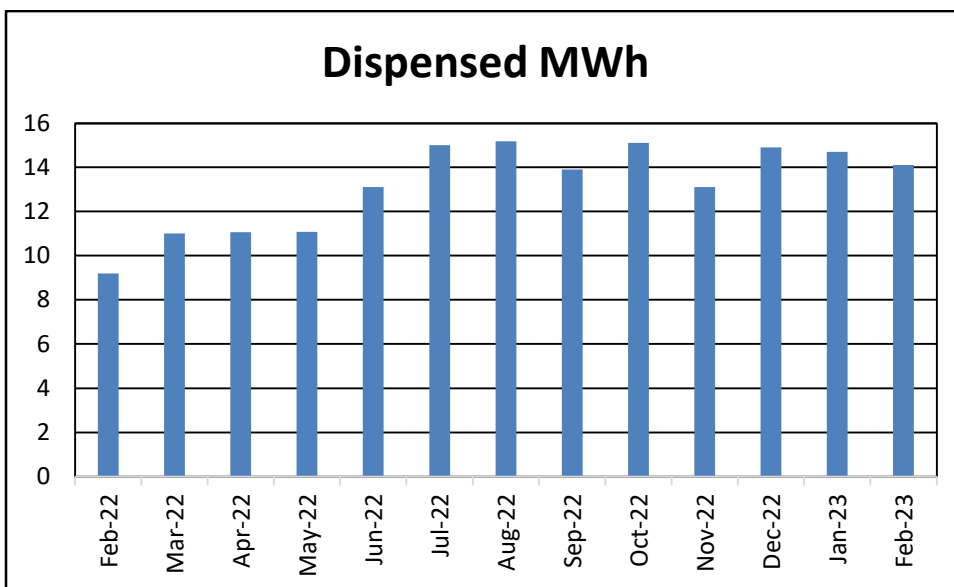
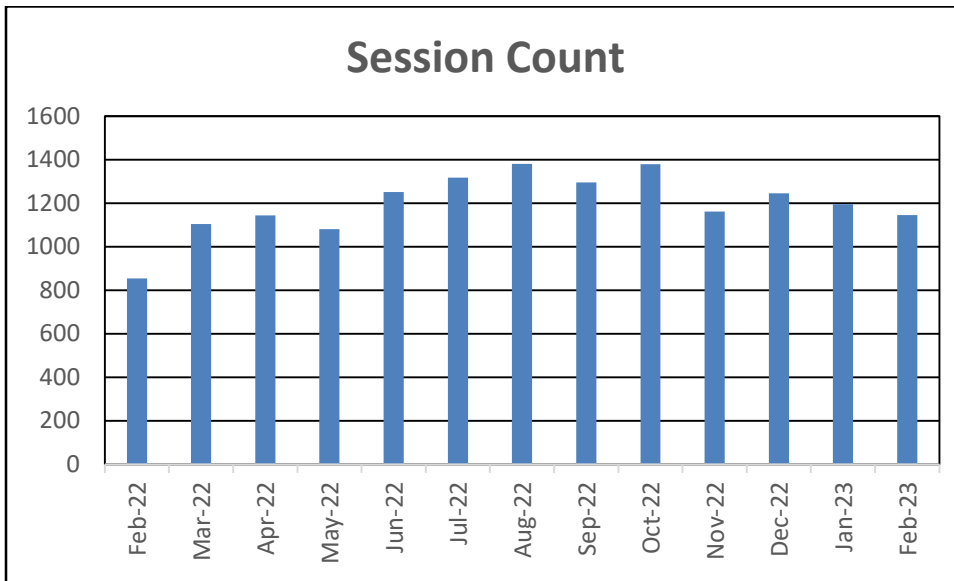
installed. Changes to the specified cooling equipment were communicated to BED by the customer this month and a new energy modeling run is now in progress to update the energy savings estimate.

- Hotel Vermont & Courtyard Marriott HVAC Upgrades – BED made a field visit to the site several months ago at the customer's request, to discuss planned improvements in the operation of both hotel's HVAC systems to improve comfort and energy efficiency. The customer is now investigating the replacement of 4-pin CFLs in several areas of both hotels and BED assisted this month with answering questions about how to obtain the most cost-effective lighting rebates.
- Intervale Community Farm Greenhouse Heating – An existing greenhouse biomass furnace has reached its end-of-life. BED has been working with the owner to determine whether to replace this furnace with a propane unit heater or with a new biomass furnace. We were able to offer a rebate to move from a baseline efficient propane unit heater (80% efficient) to a Modine condensing unit heater at 93% efficient. Another alternative we provided is a rebate to move from a new propane unit to a new biomass furnace instead. The customer has chosen to stay with biomass and has the equipment on order.
- Zero Gravity Brewing New Air Compressor System – This customer is installing a new 15HP compressor and cycling air dryer for their facility on Pine Street. This will allow an older second 15HP compressor to act as a back-up to ensure more process up-time should there be a failure. BED made a site visit this week and the equipment is presently being installed.
- City Market Downtown Refrigeration Leak Detection and Defrost Upgrade – City Market has received proposals from their refrigeration contractor to update their low-temperature freezer cases with an improved defrost system which will increase efficiency in their refrigeration racks. They are also intending to install a permanent refrigeration leak detection system with 16 points of sensing and have received a proposal for that work as well. BED has committed to providing an incentive proposal which covers both of these efficiency measures.
- 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. BED is in dialog with the organization to point them in the direction of highest efficiency and highest BED incentive. Energy modeling (baseline vs. proposed) will be the method to prove the energy savings and to size the rebate amount. The customer is presently working on further defining the design such that modeling can be initiated.
- Rhino Foods Facility Expansion – BED has been working with this customer for a number of months on a large facility expansion, most of which represents production freezer warehouse space. This month BED provided a preliminary rebate offer for the efficient design of this manufacturing expansion. As the design becomes more fully formed, BED will be there to offer any further potential new incentives.

#### Electric Vehicles

- The EVSE dispensed a total of 14.1MWh and supported 1,145 sessions.
- The top three sales were 106, 107 & 108kWh and occurred at the Cherry Street garage, College Street garage, and Summit Street stations.

- The top ten sessions (0.9% of total) accounted for 6.5% (911kWh) of the total monthly sale. The ten sessions ranged from 79kWh-108kWh.
- The EVSE served 543 unique drivers.
- DCFC installation RFP has been awarded to Peck Electric. Peck Electric was asked to begin installation as soon as possible.
- We have begun discussing how we can support a ChargePoint installation for the City Parks, Recreation, and Waterfront Department at Oakledge Park.
- We are waiting for a replacement head from ChargePoint for BE01 (Church and Main).
- *Session Count* and *Dispensed Energy* plots from the public charging network are shown below.



- Number of EV and PHEV rebates to date: 482 (of this 85 LMI rebates to date as shown below)
  - New All Electric Vehicle: 199
  - New All Electric Vehicle (LMI): 38
  - New PHEV: 125
  - New PHEV (LMI): 41
  - Used All Electric Vehicle: 37
  - Used All Electric Vehicle (LMI): 5
  - Used PHEV: 20
  - Used PHEV (LMI): 3
  - New All Electric Vehicle (\$50K plus): 12
  - New PHEV (\$50K plus): 1
- Number of customer loans with lending partners to date: 5
- Number of customers currently participating in the new EV Charging Rate: 168
- Number of E-Motorcycle rebates to date: 1

### **Electric Vehicle Charging Stations**

- Number of home EV charging stations rebates to date: 121
- 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 non-EVmatch charging stations rebates to date: 3
- Number of multi-family EVmatch Public charging stations rebates to date: 2
- Number of Level 2 workplace charging stations rebates to date: 5

### **Electric Lawn Equipment to Date**

- Number of e-mower rebates to date: 553 (11 commercial & 542 residential)
- Number of e-leaf blowers to date: 61
- Number of residential e-trimmers: 46
- Number of residential e-chainsaws: 10

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

- Total Number of Heat Pump Technology rebates to date: 951 (of this 136 LMI rebates to date as shown below)
  - Number of ductless heat pumps to date: 562
  - Number of LMI eligible ductless heat pumps to date: 111
  - Number of centrally ducted heat pumps to date: 196
  - Number of LMI eligible centrally ducted heat pumps to date: 18
  - 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: 51
  - Number of LMI eligible heat pump hot water heaters participants to date: 7

**Electric E-Bikes to Date**

- Number of e-bike rebates to date: 423

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

- Number of induction Stovetops rebates to date: 37

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

- Number of snow blower rebates to date: 14

## BED 2022-2023 Strategic Direction Dashboard

Metrics by Strategic Initiative	Assigned	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
<b>Engage Customers and Community</b>							
Call answer time 75% within 20 seconds	Andi	89%	85%	avg 82%	avg 82%	avg 81%	
Delinquent accounts >\$500	Andi	203	194	avg 188	avg 529	avg 201	
Disconnects for non-payment	Andi	3	0	12	0	45	
# of residential weatherization completions	Chris		0	5	5	3	11
Weatherization completions in rental properties	Chris	2	0	6	0	0	TBD
# or % of homes or SF weatherized	Chris	TBD	TBD	TBD	TBD	TBD	0
Champ Challenge weatherization participants	Chris	0	0	10	0	1	TBD
# of commercial building with improved thermal envelopes	Chris	0	0	4	5	5	0
% of EEU charge from LMI customers spent on EE services for LMI customers (cumulative for year)	Chris	\$ 350,165	\$ 348,213	\$ 335,234	TBD	TBD	TBD
<b>Strengthen Reliability</b>							
SAIFI (AVG interruptions/customer) (annual target)	Munir	0.0	0.01	1.06	0.22	1.50	1.03
CAIDI (AVG time in hrs to restore service) (annual target)	Munir	1.22	2.17	21.39		0.55	0.75
Distribution System Unplanned Outages (annual target)	Munir	1	3	61	44	90	98
McNeil Forced Outages	Munir	0	1	14	5	21	TBD
W1H Forced Outages	Munir	0	0	6	9	2	TBD
GT Forced Outages	Munir	1	1	6	2	3	TBD
<b>Invest in Our People, Processes, and Technology</b>							
Avg. # of days to fill positions under recruitment	Emily	238	179	100	68	179	
# of budgeted positions vacant	Emily	7	7	avg 9	avg 9	6	NA

## BED 2022-2023 Strategic Direction Dashboard

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

## BED 2022-2023 Strategic Direction Dashboard

Metrics by Strategic Initiative	Assigned	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
<b>Manage Budget and Risks Responsibly</b>							
<i>Safety &amp; Environmental</i>							
No. of workers' compensation/accidents per month	Paul	1	0	16	4	8	
Total Paid losses for workers' compensation accidents (for the month)	Paul	\$8,466	\$4,031	\$ 145,102	\$ 93,612	\$ 165,402	\$38,288
Lost Time Incident Rate (days/year) (Dec numbers reflect annual results)	Paul	N/A	N/A	1.99	0.0	0.93	0.89
Lost Time Severity Rate (days/year) (Dec numbers reflect annual results)	Paul	N/A	N/A	112.63	0.0	41.71	78.2
Lost work days per month	Paul	0	0	avg 9	0.0	45	
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	Paul	0.070	0.067	0.06	0.07	0.07	
# of reported spills, waste water incidents (monthly)	Paul	0	0	6	4	4	
Phosphorus levels to DEC in lbs (monthly/yearly total)	Paul	.050/.543	0.017/0.560	0.688	2.028		1.169
# of new power outage claims reported (monthly)	Paul	0	0	5	7	4	
# of new auto/property/other liability claims reported (monthly)	Paul	2	2	27	18	27	
<i>Purchasing &amp; Facilities</i>							
# of Purchase Orders for Inventory (Target: avg for winter months)	Jeff T	72	40	636	644	593	
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	Jeff T	\$196,551	\$229,809	\$ 4,861,023	\$ 3,278,620	975,531	
# of stock issued for Inventory (Target: avg during winter months)	Jeff T	516	569	6,187	4,402	4,545	
\$ value of stock issued for Inventory (Target: avg. during winter)	Jeff T	\$ 175,308	\$ 275,666	\$ 2,200,233	855,456	1,086,478	
# of posters pulled from poles monthly (Target: goal to remove each month)	Jeff T	43	73	900	2,728	627	
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	Jeff T	9	16	132	88	87	
<i>Finance</i>							
Debt service coverage ratio	Emily		3.91	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Adjusted debt service coverage ratio	Emily		1.02	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Days unrestricted cash on hand	Emily		120	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
<i>Power Supply</i>							
McNeil generation (MWH) (100%)	Munir	29,391	30,034	228,981	273,355	192,696	
McNeil availability factor	Munir	100%	84%	67%	80%		
McNeil capacity factor	Munir	87%	81%	52.4%	62.4%		
Winooski One generation (MWH)	Munir	2,489	3,609	25,350	24,752	21,194	
Winooski One availability factor	Munir	99%	99%	98.3%	97%		
Winooski One capacity factor	Munir	50.1%	67.7%	41.7%	37%		
Gas Turbine generation (MWH)	Munir	4.7	0.0	356	373	441	
Gas Turbine availability factor	Munir	0%	0%	54.5%	96%		
Gas Turbine capacity factor	Munir	0%	0%	0.2%	0.21%		
BTV solar PV production (mWh)	James	233	82	5,260	5,015	5,182	
Cost of power supply - gross (\$000)	James		\$2,772	\$36,755	\$30,285	\$31,081	
Cost of power supply - net (\$000)	James		\$2,772	\$27,487	\$22,134	\$23,388	
Average cost of power supply - gross \$/KWH	James		\$0.10	\$0.11	\$0.09	\$0.10	
Average cost of power supply - net \$/KWH	James		\$0.10	\$0.08	\$0.07	\$0.08	

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

**Wednesday, February 8, 2023**

The regular meeting of the Burlington Electric Commission was convened at 5:36 pm on Wednesday, February 8, 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 Lara Bonn, Jim Chagnon, Robert Herendeen, and Scott Moody were present. Commissioner Whitaker arrived at 5:57 pm.

Staff members present at 585 Pine Street included Paul Alexander, Andi Higbee, Munir Kasti, Laurie Lemieux (Board Clerk), Betsy Lesnikoski, Katie Morris, Paul Pikna, Darren Springer, and Emily Stebbins-Wheelock.

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

**1. Agenda**

There were no changes to the agenda.

**2. January 11, 2023 Meeting Minutes**

Commissioner Chagnon made a motion to approve the minutes of the January 11, 2023 Commission Meeting; the motion was seconded by Commissioner Herendeen and approved by all Commissioners present. Commissioner Whitaker was not present for the vote.

**3. Public Forum**

No one from the public was present for the meeting.

**4. Commissioners' Corner**

Commissioner Herendeen asked for an update regarding the street lighting meeting that is to take place. Mr. Springer stated that Mr. Kasti is working with Gabrielle Stebbins to schedule the street lighting meeting and that Mr. Kasti will reach out to Commissioner Herendeen when they have a date.

## 5. GM Update

Mr. Springer stated that he, Jen Green, Betsy Lesnikoski, Munir Kasti, and IBEW Local 300 Business Manager Jeffrey Wimette, and IBEW Chief Steward Jim Dutra released a media statement regarding the proposal by Renewable Energy Vermont (REV) to change Vermont's Renewable Energy Standard. This proposal could potentially cost BED customers tens of millions of dollars in additional power supply costs with no additional benefit since we are already 100 percent renewable. It also would phase out McNeil's eligibility to count toward Vermont's renewable energy targets. REV's announcement raised serious concerns about the new legislative proposal. BED also shared the statement with many legislators, as well as members of the City Council's Transportation, Energy, and Utilities Committee (TEUC), which is considering holding a forum on wood energy.

Media coverage included Seven Days (with a correction added at our request), Fox44/ABC, and Vermont Business Magazine, which printed the full statement from BED and IBEW. This proposal by REV hopefully will not pass as written, but there seems to be some interest in the proposed legislation particularly in the Vermont House. BED will continue to engage in this discussion, and Mr. Springer encouraged the Commission to be engaged as well if deemed appropriate.

Commissioner Moody stated that the Commission would craft a statement to address this proposal. Mr. Springer stated that this would be extremely helpful.

Mr. Springer stated that he testified in the Senate committee on Tuesday, February 7, 2023 on the Affordable Heating Standard bill. The department will be working with other utilities to get limited additional language added that will clarify how these new programs will work with our existing incentives.

Mr. Springer stated that BED and Efficiency Vermont will be working together to seek an extension of Act 151, which gives BED flexibility to use a portion of our efficiency dollars in tandem with our Tier 3/Net Zero incentives.

Mr. Springer stated that the FY23 budget is challenging mainly due to warmer than expected winter temperatures leading to lower than expected energy prices year-to-date through December. BED is working on strategies, including how we deploy McNeil in an attempt to mitigate additional expenses.

Mr. Springer stated that the District Energy Act 250 Jurisdictional Opinion request has been filed with the district coordinator by Burlington District Energy non-profit. We are engaging with State agencies to discuss financing options for the project. Federal funding from former Sen. Leahy still is pending review with the Department of Energy. UVM Medical Center (UVMHC) will be presenting the District Energy Project to its neighbors at a community meeting in February, which BED will join. Work continues on steam pricing with BED, DPW, and Ever-Green coordinating more closely on project details.

Mr. Springer stated that the Mayor, DPI, BED, and many organizations supporting the carbon pollution fee ballot item held a press conference at Hula in January. This ballot item will be on the ballot in March.

Mr. Springer stated that BED held a press conference (also in January) to announce updates to our 2023 incentives and to explain the new Weatherization Repayment Assistance Program (WRAP) tariff on-bill financing for heat pumps and weatherization. BED also is working on a heat pump rate pilot program in an effort to develop a heat pump peak use mitigation strategy that could entail a customer bill credit monthly for enrolling and participating in the future.

## **6. December FY23 Financials**

Ms. Stebbins-Wheelock presented the December FY2023 financial results.

The Department's net loss for the month of December was \$66K compared to a budgeted net income of \$434K, which is \$500K worse than budget.

Sales to customers were \$53K higher than budget for December and \$191K or within 1% of budget for the fiscal year to-date. Commercial sales overall for the year so far are under budget and residential sales are slightly above budget.

Other revenues, primarily EEU, were higher than budget by \$146K for the month.

Power supply expenses were unfavorable to budget by \$913K in December. This is due to a combination of increased fuel and purchased power expense. The Department continues to experience unbudgeted capacity charges related to the Mystic, MA power plant, which were \$147K in December

Non-power supply operating expenses for December were \$136K higher than budget and \$311K higher for the fiscal year to date, largely due to timing variances.

Other income was \$346K higher than budget largely due to customer contributions for prior year billable and increased interest income and unrealized gain on investments in the construction fund.

For FY23 to date, the Department has an actual net loss of \$209K compared to a budgeted net income of \$712K. Exclusive of any volatility in the energy markets, which could be considerable, the Department is currently forecasting to end the fiscal year with a net income of approximately \$0, or \$1.1M less than budget.

As of December 31, the Department's capital spending was \$4.7M versus the \$5.6M budgeted, or 46% of the total FY23 capital budget.

Cash as of December 31 was \$4.7M compared to a budget of \$8.9M, or 76 days cash on hand. Department management will continue to monitor the cash position closely over the remainder of the fiscal year.

For the 12 months ended December 2022, the Department's debt service coverage ratio is 3.04 and the adjusted debt service coverage ratio is 0.88.

## **7. IRP Forecast Update**

Mr. Gibbons presented a PowerPoint presentation that explained the Department's Integrated Resource Plan (IRP). Mr. Gibbons explained that the IRP is a triennial utility obligation created by 30 VSA 218 and stated that an IRP is a "least-cost integrated plan" for a regulated electric or gas utility. It is also a plan for meeting the public's need for energy services, after safety concerns are addressed, at the lowest present value life cycle cost.

Mr. Gibbons explained that an IRP is not an approval to undertake any actions that the plan concludes are appropriate or a determination of prudence with regard to any action in the plan in respect to rate recovery. Mr. Gibbons explained that all actions a utility takes may require PUC approval even if included in an IRP (for example, approval to enter a contract may be required based on the contract details even if an IRP concludes it should be done). Also, 30 VSA 248 section 6 requires that, "with respect to purchases, investments, or construction by a company, is consistent with the principles for resource selection expressed in that company's approved least-cost integrated plan."

Mr. Gibbons explained that approval equates to approval of the decision-making processes described in the IRP.

Some of the major statutory components of an IRP include forecast, resource evaluation, energy efficiency/demand response trade-offs, distribution evaluation, economic impacts (rate trajectory), and environmental impacts.

Mr. Gibbons also outlined some recent Public Service Department suggestions as to what should be in an IRP.

Mr. Gibbons stated that, unlike prior IRPs, assumptions regarding the pace of electrification are by far the largest unknown in terms of impact on load served. By extension they, in combination with resource expiration, are also the largest impact on both power supply and distribution upgrade requirements. In turn, the biggest drivers for the impact of electrification are the deployment rate of EVs, the average consumption of EVs, the deployment rate of efficient electric heating, and the consumption associated with efficient electric heating.

Mr. Gibbons reviewed the graphs showing Potential EV Deployment Trajectories and Potential Heat Pump Deployment Trajectories.

Mr. Gibbons stated that the IRP is due on September 1, 2023. There is still much work to be done, and he will keep the Commission updated as the IRP progresses.

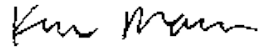
## **8. Commissioners' Check-In**

There were no Commissioner check-ins.

Commissioner Chagnon 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 6:47 p.m.

Attest:

A handwritten signature in black ink, appearing to read "Katie Morris", written over a horizontal line.

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Katie Morris, Temporary Board Clerk



*FY 2023  
Financial Review  
January*

*March 1, 2023*

# **Burlington Electric Department Financial Review**

**FY 2023**

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## FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of January FY23

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	51,553	4,700	4,313	(388)	30,996	30,418	(579)
Other Revenues	3,631	292	412	119	2,105	3,134	1,029
Power Supply Revenues	8,385	0	0	0	4,506	3,825	(681)
Total Operating Revenues	63,569	4,993	4,725	(268)	37,607	37,376	(231)
Power Supply Expenses	31,423	1,382	2,772	(1,390)	18,490	20,588	(2,098)
Operating Expense	22,952	1,804	1,822	(18)	12,499	12,828	(329)
Depreciation & Amortization	6,391	533	519	13	3,728	3,591	137
Taxes	3,466	289	263	27	2,029	1,879	150
Sub-Total Expenses	64,232	4,008	5,376	(1,368)	36,746	38,887	(2,140)
Operating Income	(664)	985	(651)	(1,636)	861	(1,510)	(2,371)
Other Income & Deductions	5,009	422	387	(35)	2,919	2,896	(23)
Interest Expense	3,114	242	302	(59)	1,904	2,161	(257)
Net Income (Loss)	1,231	1,164	(566)	(1,730)	1,876	(775)	(2,651)

### Year-to-Date Results:

- **Sales to Customers** down \$579,000 (1.9%). Non-Residential Sales down \$447,600 and Residential Sales down \$131,500.
- **Other Revenues** up \$1,029,000 (49%)
  - a. DSM billable (customer driven).
- **Power Supply Revenues** down \$681,000 (15%)
  - a. McNeil REC revenue of \$1,728,000 compared to a budget of \$2,240,000.
  - b. Wind REC revenue of \$1,663,000 compared to a budget of \$1,708,000.
  - c. Hydro REC revenue of \$440,000 compared to a budget of \$464,000.
  - d. Other REC revenue down \$99,000.
- **Power Supply Expenses** up \$2,098,000 (11%)
  - a. Purchased Power up \$2,789,000.
  - b. Fuel down \$503,000.
  - c. Transmission down, \$188,000.
- **Taxes** down \$150,200 (7%)
  - a. Actual Payment in Lieu of Tax (PILOT) is less than budget assumption.
- **Operating Expenses** up \$329,000 (2.6%)
  - a. DSM (rebates & outside services) higher \$1,114,000. Offset by various items that are less than budget. This includes labor and overhead (\$638,000).
- **Other Income & Deductions** down \$23,000 (within 1%)
  - a. Budget assumed customer contributions for Champlain Pkwy, \$315,500 and other overhead/underground billable, \$127,500. Actual includes prior year billable for UVM LCOM \$214,000 and other projects & grant proceeds.
  - b. Actual includes unrealized loss on investment, (\$97,800) offset by interest income higher, \$221,000.
  - c. Timing: retirements budgeted in August, (\$134,000) have not happened.

## FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of January FY23

Capital Spending – January YTD (\$000's)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$1,637	\$796	\$508	31%
Other	267	187	113	43%
Distribution	4,460	3,238	2,834	64%
General	2,127	1,425	609	29%
<b>Sub-Total</b>	<b>8,491</b>	<b>5,646</b>	<b>4,064</b>	<b>48%</b>
Transmission	632	632	634	100%
<b>Total</b>	<b>\$9,123</b>	<b>\$6,278</b>	<b>\$4,699</b>	<b>52%</b>

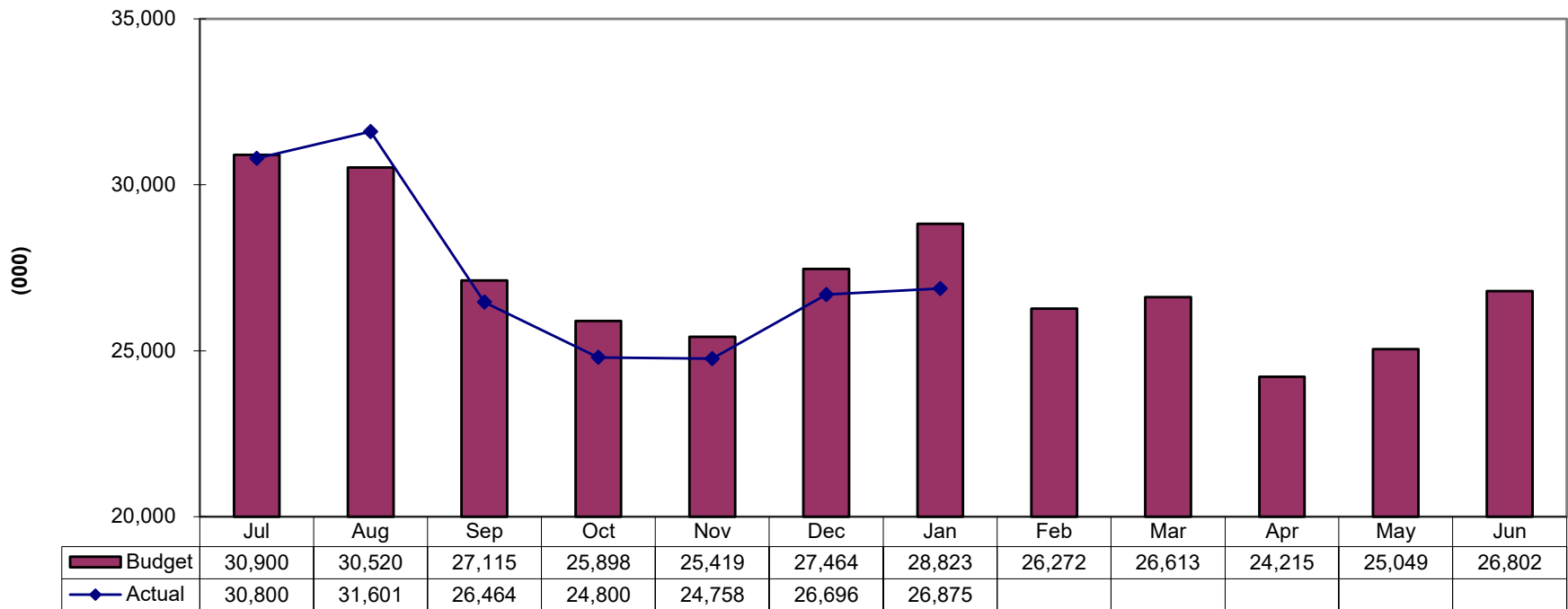
- (1) **Production** – Timing of Winooski One projects, \$205,000 and roof replacement at the Gas Turbine has been deferred to FY24, \$85,000.
- (2) **Other** – Spending for direct current fast chargers is within budget. Timing of other projects include Distributed Energy Resources, and research & development.
- (3) **Distribution** – Timing of various projects.
- (4) **General** – IT Forward project budgeted throughout the year; YTD expenses of \$375,600 compared to a budget of \$788,800. Pole mount routers YTD expenses of \$1,100 vs budget of \$160,000 and Open Way upgrade, YTD expenses of \$0 vs budget of \$24,700.

As of January 31, 2023 Cash and Investments	
Operating Funds	\$5,889,700
Operating Fund – CDs	\$971,800
Total Operating Fund	\$6,861,500

Credit Rating Factors – January 2023				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	2.69	3.91
Adjusted Debt Service Coverage Ratio	1.50	1.10	0.77	1.02
Cash Coverage - Days Cash on Hand	90	30	95	120

**Burlington Electric Department  
Fiscal Year Ending June 30, 2023**

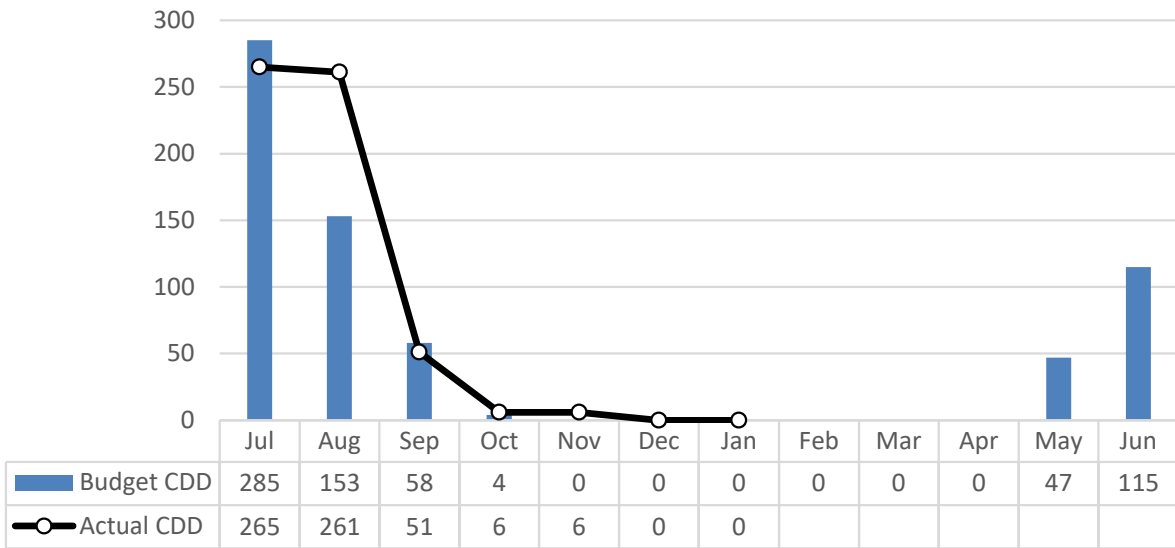
**Total Sales to Customers - KWH  
Monthly**



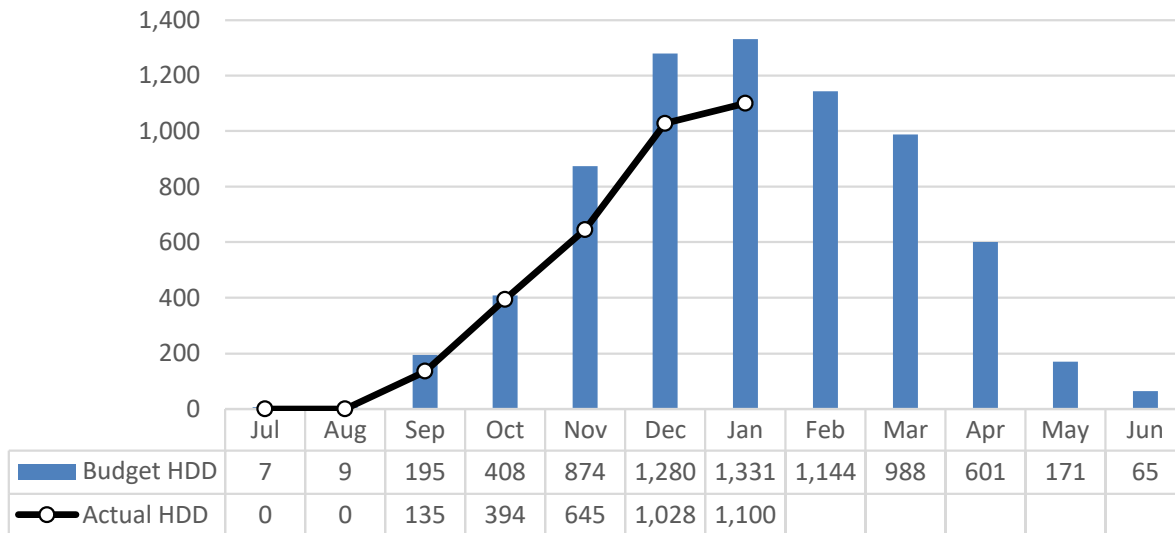
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Budget</b>	30,900	61,420	88,534	114,432	139,851	167,316	196,138	222,410	249,023	273,239	298,288	325,090
<b>Actual</b>	30,800	62,400	88,864	113,664	138,422	165,118	191,993					

## FY 2023

### Cooling Degree Days (CDD)



### Heating Degree Days (HDD)

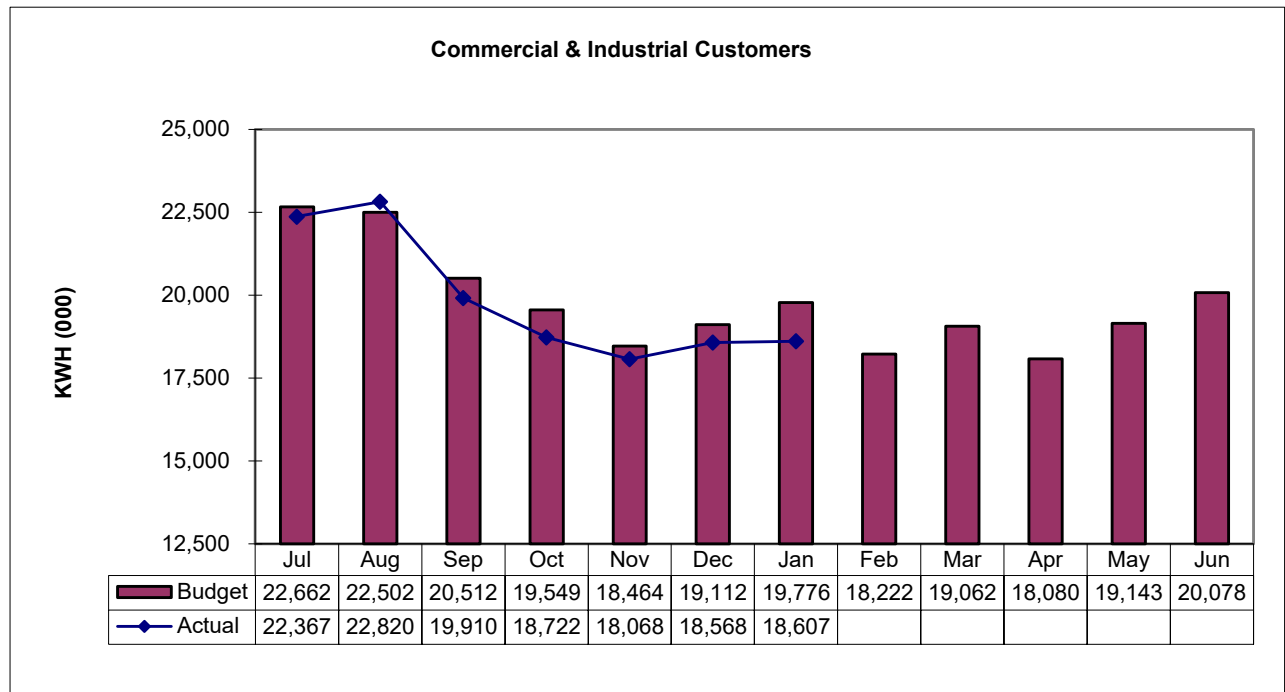
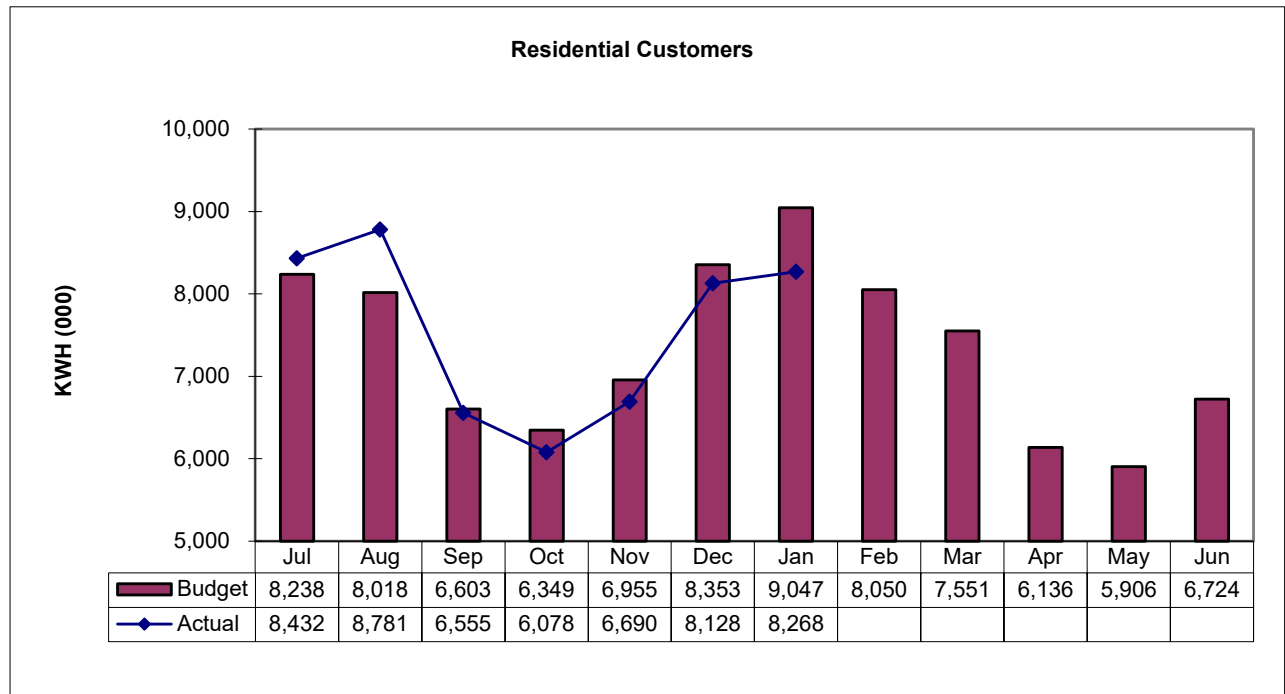


### Average Monthly Temperature

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	72	71	63	50	39	28	20	22	32	45	58	67
Actual	73	73	62	52	44	30	29					

**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, 2023  
KWH Sales**



*Street Lighting is included with Commercial & Industrial Customers.*

# **Net Power Supply Costs** **January - FY 2023**

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
<b>Expenses:</b>							
Fuel (p. 7)	\$1,220	\$1,210	\$11	(1)	\$6,108	\$5,605	\$503 (1)
Purchased Power (p.11)	(696)	724	(1,420)	(2)	6,755	9,544	(2,789) (2)
Transmission Fees - ISO	575	505	70	(3)	4,347	4,265	82 (3)
Transmission Fees - Velco	204	208	(4)		872	660	212 (4)
Transmission Fees - Other	79	126	(47)	(4)	408	514	(106) (5)
Total Expenses	1,382	2,772	(1,390)		18,490	20,588	(2,098)
<b>Revenues:</b>							
Renewable Energy Certificates - McNeil	0	0	0		2,240	1,728	(512) (6)
Renewable Energy Certificates - Wind	0	0	0		1,708	1,663	(46)
Renewable Energy Certificates - Hydro	0	0	0		464	440	(24)
Renewable Energy Certificates - Other	0	0	0		93	(6)	(99) (7)
Total Revenues	0	0	0		4,506	3,825	(681) (8)
Net Power Supply Costs	\$1,382	\$2,772	(\$1,390)		\$13,984	\$16,762	(\$2,779)
Load (MWh)	29,580	27,586	(1,994)		201,461	197,120	(4,341)
\$/MWh	\$46.72	\$100.49	\$53.77		\$69.41	\$85.04	\$15.63

## **Current Month:**

- (1) See detail on page 7.
- (2) See detail on page 11.
- (3) December Peak Load (billed in January) under Budget.
- (4) NYPA NYISO Transmission charges over Budget.

## **YTD:**

- (1) See detail on page 7.
- (2) See detail on page 11.
- (3) Peak Load under Budget.
- (4) VELCO Common Charges and BED's share of Common Charges under Budget.
- (5) NYPA NYISO Transmission charges over Budget.
- (6) McNeil REC sales under Budget due to CY22 production under Budget.
- (7) Other (Solar) REC sales generally completed towards the end of the fiscal year. Negative due to timing.
- (8) REC Sales projected to be 11% under Budget due to lower McNeil and Winooski One production in calendar year 2022.

**Net Power Supply Costs  
January - FY 2023**

	(\$000)							
	Current Month				Year-to-Date			
	Budget	Actual	Variance		Budget	Actual	Variance	
<b><u>FUEL:</u></b>								
<b>McNeil:</b>								
Fuel Consumed	939	914	25	(1)	4,377	4,289	87	(1)
Swanton Yard	58	85	(27)	(1)	348	313	35	(1)
Train Deliveries	119	145	(26)	(1)	697	606	90	(1)
Labor & Other Expenses	93	65	27	(2)	579	378	201	(2)
Total McNeil Fuel	<u>1,208</u>	<u>1,210</u>	<u>(1)</u>		<u>6,000</u>	<u>5,586</u>	<u>413</u>	
Gas Turbine	12	0	12	(3)	108	18	90	(3)
<b>Total Fuel</b>	<u><u>1,220</u></u>	<u><u>1,210</u></u>	<u><u>11</u></u>		<u><u>6,108</u></u>	<u><u>5,605</u></u>	<u><u>503</u></u>	

**Current Month:**

(1) McNeil production 17% under Budget. Wood Price per Ton 18% 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 offline for maintenance.

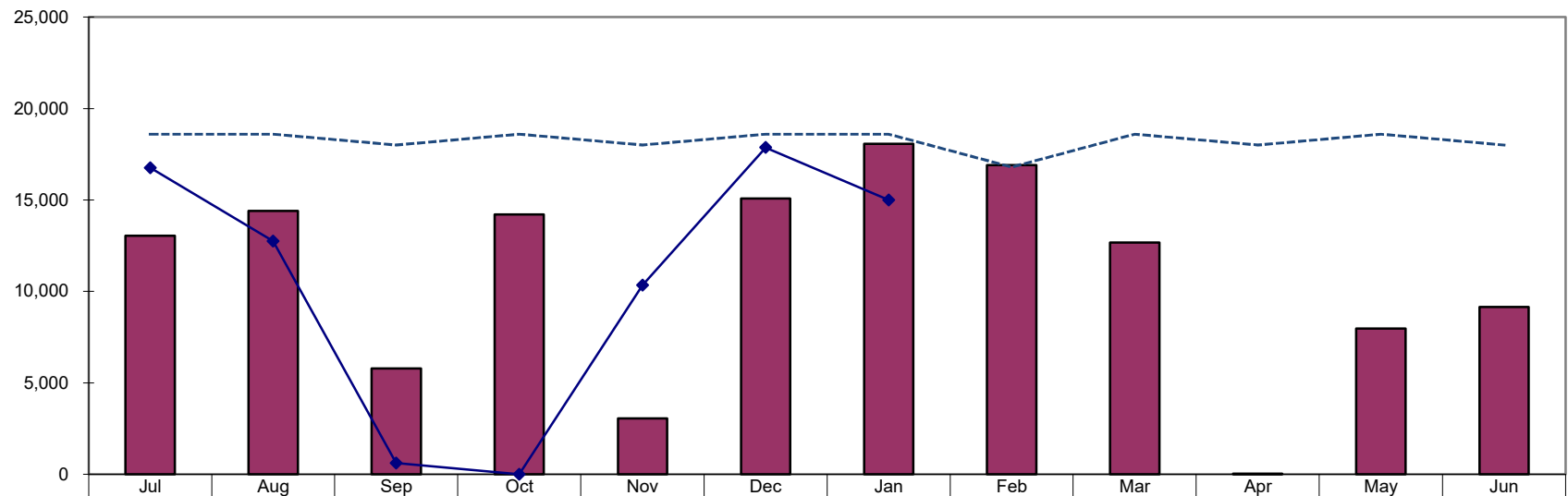
**YTD:**

(1) McNeil production 12% under Budget. Wood Price per Ton 17% 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.

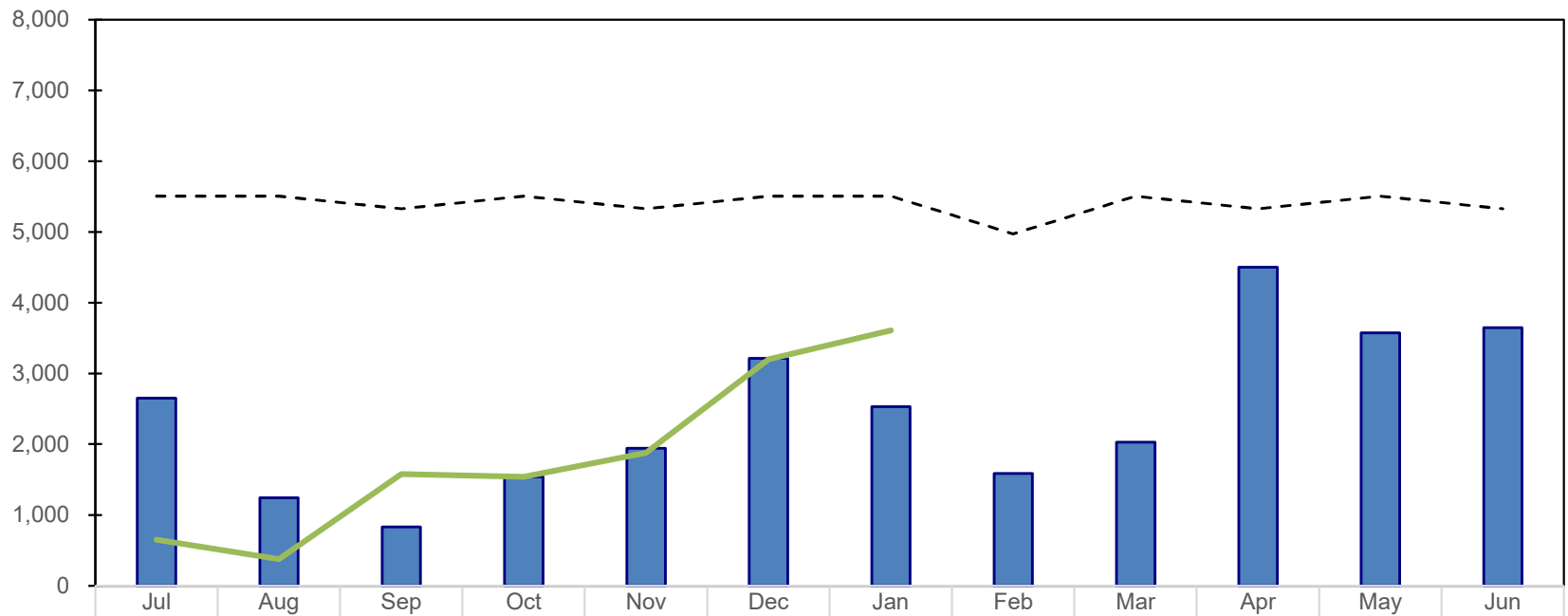
(3) GT outage started on 7/20/22 and continued through late February.

**Burlington Electric Department  
McNeil Plant - MWH Production (50%)  
FY 2023**



<span style="display:inline-block; width:15px; height:10px; background-color:maroon; border:1px solid black;"></span> Budget	13,047	14,395	5,792	14,209	3,057	15,088	18,082	16,912	12,671	23	7,963	9,152
<span style="display:inline-block; width:15px; height:1px; background-color:blue; border:1px solid black;"></span> Actual	16,763	12,756	619	0	10,354	17,868	14,993					
<span style="display:inline-block; width:15px; border-top:1px dashed blue; border:1px solid black;"></span> 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

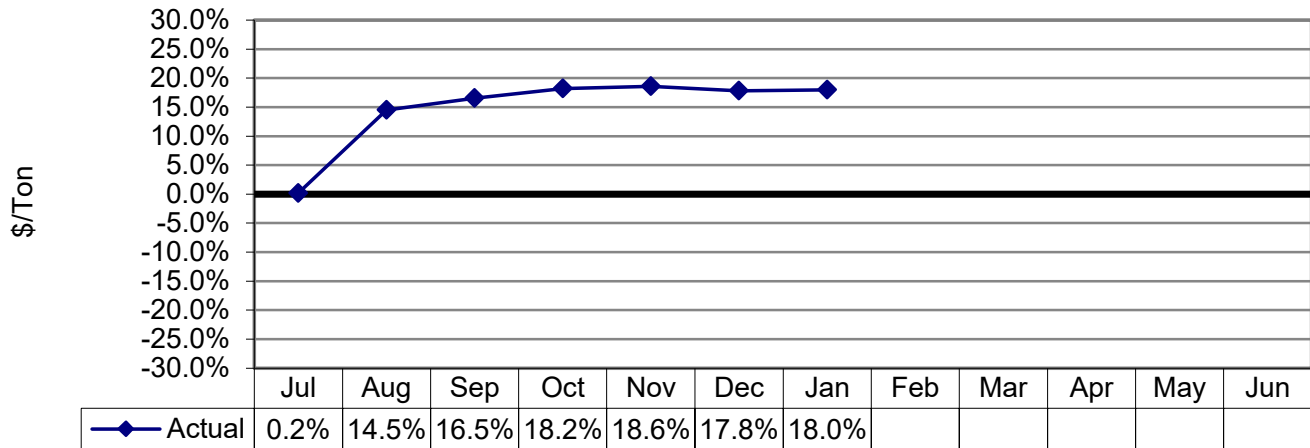
**Burlington Electric Department  
Winooski One - MWH Production  
FY 2023**



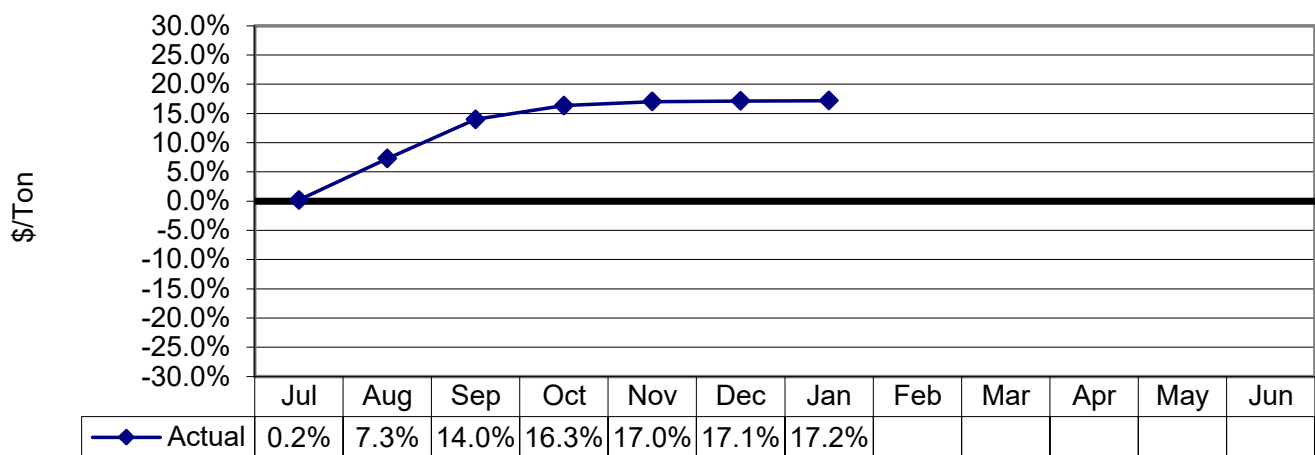
<span style="color: blue;">■</span> Budget	2,650	1,246	832	1,541	1,942	3,216	2,531	1,587	2,032	4,503	3,575	3,643
<span style="color: green;">—</span> Actual	651	376	1,578	1,541	1,878	3,197	3,609					
<span style="color: black;">- - -</span> Maximum	5,506	5,506	5,328	5,506	5,328	5,506	5,506	4,973	5,506	5,328	5,506	5,328

## Burlington Electric Department Fiscal Year 2023

### 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  
January - FY 2023**

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
<b><u>PURCHASED POWER:</u></b>							
Non-Energy (capacity)	83	140	(57)	(1)	657	1,158	(501) (1)
<b>Energy:</b>							
Georgia Mountain Wind	258	206	52	(2)	1,847	1,907	(60) (2)
Hancock Wind	351	278	73	(3)	1,801	1,668	133 (3)
VT Wind	223	69	155	(4)	1,394	994	400 (4)
Hydro Quebec	293	293	(0)		1,878	1,878	(0)
Great River Hydro	176	199	(23)	(5)	1,200	1,244	(43) (5)
In City Solar Generators	22	14	8		444	467	(23) (6)
NYP&A	6	8	(1)		44	48	(4)
ISO Exchange	(2,168)	(532)	(1,636)	(6)	(3,300)	(641)	(2,659) (7)
Velco Exchange	0	(0)	0		0	(2)	2
Total Energy	(839)	533	(1,372)		5,309	7,563	(2,254)
Ancillary Charges	6	2	4		34	192	(158) (8)
Miscellaneous	53	49	5		755	630	124 (9)
<b>Total Purchased Power Expense</b>	<b>(696)</b>	<b>724</b>	<b>(1,420)</b>		<b>6,755</b>	<b>9,544</b>	<b>(2,789)</b>

**Current Month:**

- (1) Includes \$70k Mystic Cost of Service not in Budget.
- (2) Production 20% under Budget.
- (3) Production 21% under Budget.
- (4) Production 69% under Budget.
- (5) Includes REC purchases Budgeted under Miscellaneous.
- (6) Energy Prices under Budget. Production (McNeil (-18%) and Wind (-36%)) under budget.

**YTD:**

- (1) Includes \$442k for Mystic Cost of Service not in Budget.
- (2) Production 3% over Budget.
- (3) Production 7% under Budget.
- (4) Production 29% under Budget.
- (5) Includes REC purchases Budgeted under Miscellaneous.
- (6) Production over budget.
- (7) Energy Prices under Budget. Production (McNeil (-12%), Wind (-11%), and Winooski One (-8%)) under budget.
- (8) Reflects loss of Forward Reserve Revenues due to GT outage.
- (9) Includes REC Adjustment Expense.

**Burlington Electric Department**  
**Operating and Maintenance Expense by Spending Category**  
**FY 2023 - January YTD**

	<b>Budget</b>	<b>Actual</b>	<b>Variance</b>	<b>% Variance</b>	<b>*</b>
Labor-Regular	5,098,325	4,691,267	407,058	8%	
Labor-Overtime	348,527	334,758	13,769	4%	
Labor-Temporary	8,500	38,523	(30,023)	353%	a
Labor-Overhead	2,069,785	1,823,083	246,702	12%	b
Outside Services	1,356,603	1,407,150	(50,547)	4%	
DSM	1,130,563	2,244,520	(1,113,957)	99%	c
Materials & Supplies	528,903	577,071	(48,168)	9%	
Insurance	432,514	422,530	9,984	2%	
A & G Clearing	(592,880)	(385,901)	(206,979)	35%	d
Other - RPS Compliance	378,681	321,333	57,348	15%	
Other	1,739,585	1,353,543	386,042	22%	e
<b>Operating and Maintenance Expense</b>	<b>12,499,108</b>	<b>12,827,877</b>	<b>(328,769)</b>	<b>3%</b>	

(a) Budget assumed intern positions in Policy & Planning, \$7,000. Actual includes temporary help in System Operations, \$36,300 and Finance & Accounting, \$2,300.

(b) See page 13.

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

(e) Timing; higher Uncollectible Accounts, \$130,500 offset by various areas that are less than budget including, Maintenance Contracts (\$55,600), Education & Training (\$62,900), Transportation Clearing (\$32,700) and Building Clearing (\$28,400).

**Burlington Electric Department  
Budget vs Actual Spending Analysis  
FY 2023 - January YTD**

<b>Labor - Overhead</b>	<b>Budget</b>	<b>(000's)</b>		<b>%</b>	
		<b>Actual</b>	<b>Variance</b>		
Pension	\$893	\$981	(\$88)	-10%	(a)
Medical Insurance	828	810	17	2%	(b)
Social Security Taxes	579	525	55	9%	(a)
Workers Compensation Ins.	220	192	28	13%	(b)
Dental Insurance	48	43	5	10%	(b)
Life Insurance	11	11	(0)	-3%	(b)
	<b>\$2,578</b>	<b>\$2,562</b>	<b>\$16</b>	<b>1%</b>	

<b>Rates Table:</b>		<b>Budget</b>
Pension		12.49%
Social Security		7.65%

*(a) Function of labor cost. Actual includes monthly pension arbitration amortization, \$5,440.*

*Pension amount for the year provided by the City during budget development.*

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

**Net Income**  
**FY 2023 - January (\$000)**

		Current Month				Year - To - Date		
	Ref	Budget	Actual	Variance		Budget	Actual	Variance
<b>Operating Revenues</b>								
Sales to Customers	p.3	4,700	4,313	(388)		30,996	30,418	(579)
Other Revenues		292	412	119 (a)		2,105	3,134	1,029 (a)
Power Supply Revenues	p.6	0	0	0		4,506	3,825	(681)
Total Operating Revenues		<u>4,993</u>	<u>4,725</u>	<u>(268)</u>		<u>37,607</u>	<u>37,376</u>	<u>(231)</u>
<b>Operating Expenses</b>								
Fuel	p.6	1,220	1,210	10		6,108	5,605	503
Purchased Power	p.6	(696)	724	(1,420)		6,755	9,544	(2,789)
Transmission	p.6	858	838	20		5,627	5,439	188
Operating and Maintenance	p.12	1,804	1,822	(18)		12,499	12,828	(329)
Depreciation & Amortization		533	519	13		3,728	3,591	137
Revenue Taxes		50	46	4		352	345	8
Property Taxes Winooski One		43	40	3		303	283	20
Payment In Lieu of Taxes		196	176	20 (b)		1,374	1,251	123 (b)
Total Operating Expenses		<u>4,008</u>	<u>5,376</u>	<u>(1,368)</u>		<u>36,746</u>	<u>38,887</u>	<u>(2,140)</u>
			263					
<b>Other Income and Deductions</b>								
Interest/Investment Income		5	44	40		35	256	221
Dividends		367	368	1		2,557	2,562	5
Customer Contributions/Grant Proceeds		40	8	(32) (c)		438	284	(155) (c)
Gain/(Loss) on Disp of Plant		0	0	0		(149)	(13)	135 (d)
Other		11	(33)	(44) (d)		37	(192)	(229) (e)
Total Other Income & Deductions		<u>422</u>	<u>387</u>	<u>(35)</u>		<u>2,919</u>	<u>2,896</u>	<u>(23)</u>
<b>Interest Expense</b>								
		242	302	(59) (e)		1,904	2,161	(257) (g)
<b>Net Income</b>								
		<u>1,164</u>	<u>(566)</u>	<u>(1,730)</u>		<u>1,876</u>	<u>(775)</u>	<u>(2,651)</u>

**Current Month:**

- (a) Energy Efficiency Program cost reimbursement was higher than planned, \$118,500.  
(b) Actual Payment in Lieu of Tax (PILOT) is less than budget assumption.  
(c) Budget assumed customer contributions for Champlain Pkwy, \$28,700 and other overhead/underground billable, \$11,000. Actual includes other billable and grant proceeds.  
(d) Timing of jobbing unfavorable, \$107,500; offset by unrealized gain on investment of \$67,400.  
(e) Revenue Bond 2022 actual interest higher than projected.

**Year - To - Date:**

- (a) Energy Efficiency Program cost reimbursement was higher than planned, \$997,600.  
(b) See current month.  
(c) Budget assumed customer contributions for Champlain Pkwy, \$315,500 and other overhead/underground billable, \$127,500. Actual includes prior year billable for UVM LCOM \$214,000, other projects & grant proceeds.  
(d) Timing; retirements budgeted in August.  
(e) Timing of jobbing unfavorable, \$114,400 and unrealized loss of \$97,800 on investments.  
(g) Revenue Bond 2022 actual interest higher than projected.

**Burlington Electric Department  
Capital Projects - FY23**

	<b>\$000</b>			
	<b>Full Year Budget</b>	<b>Budget</b>	<b>January YTD Actual</b>	<b>Variance</b>
<b>McNeil (BED 50% Share)</b>				
ESP Mechanical Field Rebuild (312)	245		28	(28)
Boiler Grate Overhaul West	200		338	(338) (a)
Routine Station Improvements	167	67	46	21
Continuous Emissions Monitoring Repl/Upgrade	146	146		146
Replacement Rail Cars	75	75		75
Switchyard 3321 Breaker Replacement	70	70		70
Turbine Control System Upgrade/Insurance (314)	49	49	3	46
A-Belt Belt Replacement (312)	30			0
Augers Replaced (312)	30	30		30
Demi/Service Water Pump	15	15		15
Safety Valve Replacements (312)	13			0
Shelving Footings	13	13	11	2
Station Tools & Tool Boxes	8	4	4	(0)
Rigging Equipment (316)	5	3		3
Other	11	5	8	(3) (b)
<b>Total McNeil Plant</b>	<b>1,076</b>	<b>475</b>	<b>437</b>	<b>38</b>

(a) Timing; budget assumed April.

(b) Budget includes energy efficiency improvements, equipment cameras, perimeter fence upgrade, portable radios upgrade and furniture replacement. Actual includes west grate emergency repairs, \$3,100, furniture replacement, \$1,100 & perimeter fence upgrade, \$1,900.

<b>Hydro Production</b>	<u>224</u>	<u>214</u>	<u>9</u>	<u>205</u> (a)
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(a) Rail replacement is complete and within budget, \$32,700. This was posted to expense and will be corrected.

<b>Gas Turbine</b>	<u>338</u>	<u>107</u>	<u>62</u>	<u>45</u> (a)
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(a) Roof at GT has been postponed to next fiscal year, \$85,000. Also, painting outside of GT delayed until spring, \$9,000.

<b>Other</b>				
Direct Current Fast Charger (new locations)	162	113	113	0
EV Charger Installation (Level 2)	39	27		27
Distributed Energy Resources	37	26		26
Policy & Planning Research & Dev	29	20	0	20
<b>Total Other</b>	<u>267</u>	<u>187</u>	<u>113</u>	<u>73</u>

<b>Transmission Plant</b>				
VT Transco Investment	632	632	634	(2)
<b>Total Transmission Plant</b>	<u>632</u>	<u>632</u>	<u>634</u>	<u>(2)</u>

**Burlington Electric Department  
Capital Projects - FY23**

	<b>\$000</b>			
	<b>Full Year Budget</b>	<b>Budget</b>	<b>January YTD Actual</b>	<b>Variance</b>
<b>Distribution Plant-General</b>				
<b>Aerial</b>				
Heineberg Rd Reconductor	186	176	31	146
Pole Inspection & Replacement	118	6	23	(18)
Ethan Allen Pkwy - Conv to 2ph P2942-2959	73	73	57	16
Replace Recloser 252R			39	(39)
Total Aerial	<u>376</u>	<u>255</u>	<u>150</u>	<u>105</u>
<b>Underground</b>				
Lyman Avenue Rebuild	669	535	622	(86)
2L5 Cable Replacement Pt3	573	573	675	(102)
Sunset Cliff Rebuild	455	318	12	306
1L2/2L5 Cable Replacement Pt1	294	294	196	97
2L5/2L2 Cable Replacement Pt2	223	223	157	66
Replace 322/323/324S (Main St and Univ Hts)	138		1	(1)
Appletree Point Rebuild (Electrical Work)	107	107	55	52
Edgemoor Drive Rebuild - Phase 3	92	92	88	4
Replace 724S/725S (Milot - College St)	71		33	(33)
Replace 910S/911S (Votey)	59	59	17	42
Replace Switch (303,307,308)			106	(106)
Replace Switch (756,757,758,730-Battery/Pearl)			132	(132)
Total Underground	<u>2,680</u>	<u>2,201</u>	<u>2,095</u>	<u>107</u>
<b>Customer Driven/City Projects</b>				
Champlain Parkway	736	405	66	339
Champlain Parkway (CAFC)	(574)	(316)		(316)
UVM Athletic Facility	18	18	110	(92)
Shelburne St Roundabout Relocation			9	(9)
University Place Decorative Lighting			150	(150)
UVM LCOM Building			14	(14)
UVM LCOM Building (CAFC)			(214)	214 (a)
Main Street Great Streets			6	(6)
Total Underground	<u>180</u>	<u>107</u>	<u>140</u>	<u>(33)</u>

(a) Timing; prior year billable.

**Burlington Electric Department  
Capital Projects - FY23**

	<b>\$000</b>			
	<b>Full Year Budget</b>	<b>Budget</b>	<b>January YTD Actual</b>	<b>Variance</b>
<b>Other</b>				
Distribution Transformers	230	137	93	45
SCADA Field Device Upgrades	182	128	(5)	132
SCADA Network Switches Replacement	42	42	10	32
Communication Equipment Emergency Repair	29	14	4	11
SCADA Backup Server UPS Replacement	20			0
Metering CF-33 Toughbook	10	10		10
Other	0		12	(12)
Total Other	512	331	114	216
 Total Distribution Plant-General	 3,748	 2,895	 2,499	 395
 <b>Distribution Plant - Blanket</b>				
Lighting	251	93	82	12
Lighting (Rebate)	(6)	(2)		(2)
Underground	347	188	191	(3)
Underground (CAFC)	(152)	(84)	(52)	(31)
Aerial	170	92	87	4
Aerial (CAFC)	(67)	(37)	(7)	(30)
Meters	92	48	15	33
Tools & Equipment - Distribution/Technicians	35	21	9	12
Replace Corroded Vista CT's/PT's	22	12	11	1
Substation Maintenance	16	8		8
Gas Detectors	4	4		4
Total Distribution Plant - Blanket	711	343	334	9
 Total Distribution Plant	 4,460	 3,238	 2,834	 404

**Burlington Electric Department  
Capital Projects - FY23**

	<b>\$000</b>				
	<b>Full Year Budget</b>	<b>Budget</b>	<b>January YTD Actual</b>	<b>Variance</b>	
<b>General Plant</b>					
Computer Equipment/Software	1,902	1,200	433	767	(a)
Vehicle Replacement	94	94	109	(15)	
Buildings & Grounds	120	120	59	61	(b)
Other	11	11	8	4	(c)
<b>Total General Plant</b>	<b>2,127</b>	<b>1,425</b>	<b>609</b>	<b>816</b>	

(a) Budget includes IT Forward, \$788,800 and various other projects (desktop/laptop replacements, OpenWay upgrade, Pole Mount Routers and Virtualized Hardware Refresh). Actual includes IT Forward, \$375,600 and Desktop/Laptop replacements, \$44,100.

(b) Budget includes various projects (paving at 585 Pine St, Storm Drain rebuild, Camera System upgrade, extend pole pile and HVAC Software upgrade). Actual includes Resource Planning office, \$10,100 and Camera System Software upgrade and parking lot paving.

(c) Budget includes training yard material and AED Purchase. Actual is new Pitney Bowes postage machine.

<b>Sub-Total Plant</b>	<u>\$9,123</u>	<u>\$6,278</u>	<u>\$4,699</u>	<u>\$1,579</u>	
Add: CAFC* reclass to "Other Income"	798	438	274	164	
<b>Total Plant</b>	<u><u>\$9,921</u></u>	<u><u>\$6,716</u></u>	<u><u>\$4,973</u></u>	<u><u>\$1,743</u></u>	

\* Customer Advances (Contributions) for Construction.

## Operating Cash - FY 2023 Monthly Ending Balance

