

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

SCOTT MOODY, CHAIR
BETHANY WHITAKER, VICE CHAIR
LARA BONN
JIM CHAGNON
ANDY VOTA

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

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

Conference ID: 985 500 619#

AGENDA
Regular Meeting of the Board of Electric Commissioners
Wednesday, April 10, 2024 – 5:00 p.m.

- | | |
|---|----------------|
| 1. Agenda | 5:00 (5 min.) |
| 2. Minutes of the March 13, 2024 Meeting | 5:05 (5 min) |
| 3. Public Forum | 5:10 (5 min.) |
| 4. Commissioners' Corner (Discussion) | 5:15 (5 min.) |
| 5. GM Update (Oral Update) | 5:20 (10 min.) |
| 6. Financials: February FY24 (Discussion): (E. Stebbins-Wheelock) | 5:30 (10 min.) |
| 7. Fiscal Year 2025 Draft Budget (Discussion): (E. Stebbins-Wheelock) | 5:40 (15 min.) |
| 8. FY25 Street Light Plan (Discussion): P. Nadeau | 5:55 (10 min.) |
| 9. Heat Pump Bill Credit (Discussion & Vote): (J. Gibbons) | 6:05 (15 min.) |
| 10. Delegation for Non-disclosure Agreements Related to Power Supply
(Discussion & Vote): (J. Gibbons) | 6:20 (15 min.) |
| 11. Commissioners' Check-In | 6:35 (5 min.) |

Attest:



Laurie Lemieux, Board Clerk

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

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: 985 500 619#

TABLE OF CONTENTS
(for 04/10/2024 meeting)

***** FYI *****

- Minutes of the March 13, 2024 Meeting
- March Monthly Report
- Dashboard
- February FY24 Financial Report
- KPMG Letter and Report

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: April 5, 2024
Subject: **March 2024 Highlights of Department Activities**

General Manager

- **Net Zero Energy Roadmap 2023 update** – BED was pleased to share the 2023 Net Zero Energy Roadmap updated data with the community in March. The results from Synapse Energy Economics show an 18.2% thermal and ground transportation greenhouse gas emissions reduction between 2018 and 2023. We'll provide a City Council presentation on the data on 4/15 and will provide some additional information and context to the Commission during the April Commission meeting.
- **Charter Change Line of Credit** – Testimony in the House Government Affairs Committee scheduled for 4/11.
- **Legislative** – H. 289 (renewable energy standard update) passed the House and is now up for consideration in the Senate. S. 305 (which includes important Act 44/efficiency program updates) passed the Senate and is in House Environment & Energy Committee. We testified on 4/3 in support of S. 305.
- **Updated Rebates for 2024** – BED is excited to have launched our 2024 updated customer rebates and programs, including the Switch and Save income-qualified water heater changeout program, our heat pump bill credit program (on Commission agenda for April), and new EV and EV charging and E-bike incentives. These include the new “superuser” incentives for drivers who put the most miles on their vehicles to switch to an EV. More information available at - <https://www.burlingtonelectric.com/april-2024-north-avenue-news-go-electric-and-save/>
- **Geothermal Commercial Customer Webinar (open to public)** – Following implementation of the Carbon Fee Ordinance that was enacted in November, BED has continued to engage with commercial customers and existing buildings (including those not covered by the current ordinance in the 25,000-49,999 sq. ft category) to learn more about their current decarbonization efforts and challenges. As we follow-up from those conversations, we have heard interest from those customers in learning more about the opportunities with geothermal as well as heat pumps. To support additional discussion on those topics, we are partnering with Burlington 2030 District (an initiative of the Vermont Green Building Network) to host two zoom webinars. The first will be on geothermal heating and cooling on Thursday, April 11 from noon to 1pm. The presentation will feature geothermal specialist George Martin (President, LN Consulting), members of the BED Energy Services Team, and Holly Francis (Sustainability Coordinator at Champlain College, which uses geothermal currently).

The webinar is open to the public, and the registration link for the 4/11 Geothermal for Commercial Properties webinar event is as follows:

<https://www.tickettailor.com/events/vermontgreenbuildingnetwork/1209821>

- **Reminder – Net Zero Energy Podcast** – A reminder to check out the BED Net Zero Energy podcast hosted by Jennifer Green, with production from Adam Rabin. You can listen to all of the episodes, including the most recent ones, by visiting - <https://www.burlingtonelectric.com/pod>

Center for Innovation - Emily Stebbins-Wheelock

- Coordinating efforts to track and respond to federal and state funding opportunities.
- Continued sponsorship of IT Forward implementations.

Finance & Billing

- Welcomed new staff members Philo Brown-Gould, Accounting Administrator and Ann Reading, Staff Accountant-Operating.
- Team training on work order and fixed asset accounting.
- FY23 program audit of on-bill finance/revolving loan fund program funded by Economic Development Administration issued with clean opinion and submitted to EDA.
- Implemented 2023 rate increase on April 1, 2024 (rates effective Aug 1, 2023).
- Continued work on updating cost allocations for conduit rental fees.
- Continued work on FY25 budget development.
- Beginning work on 2024 rate case cost of service supporting calculation.
- Continued work with PFM on RFP for line of credit.
- Submitted FEMA reimbursement request for July flooding damage at Winooski One.
- Continued work on MDMS Phase 2 implementation of grid analytics modules.

Information Services

- Survalent ADMS project kick-off scheduled for mid-April. Hardware is starting to arrive.
- Disaster recovery system hardware ordered following RFP; expect buildout to start in April.
- MDMS Phase 2 work continues: voltage analysis module accepted; remainder on track for project completion in Q1 2024.
- Continued work on CIS selection. Hosted two additional on-site vendor demonstrations and four virtual follow-up demonstrations to clarify billing engine capabilities. Selection team is scoring solutions and intends to conduct reference checks in the month of April.
- Onboarded two VT DoL grant-funded interns: Mish Wilson and Gavin Tews.
- Ongoing phishing and security testing of our users; kicked off April Cybersecurity/phishing contest for BED staff.
- Met with local Department of Homeland Security cyber team to discuss ways to receive and share data.
- Recruiting for Systems and Network Engineer; expect to offer first week of April.
- Selected by U.S. DOE for a competitive cybersecurity prize that includes technical assistance from the National Renewable Energy Lab.

Policy & Planning

- Resource Planner position transition and recruitment.
- Building GIANTS DOE grant pre-award documentation.
- Recurring resource replacement and storage option meetings.
- Preparing Net Zero Grid application for DOE GRIP program.
- PUC process on Act 44 budget and reimbursement of operating fund for DES expenditures from TEPF funds.
- Developing heat pump rate pilot rate options.
- Public Works Commission approved parking changes for pole mounted EV charger pilot.
- DeltaClima meetings and mentoring.
- Selected as a host site for a DOE Clean Energy Innovator Fellow.
- Significant legislative engagement, especially on Renewable Energy Standard.
- Testimony before legislature on Act 44 budgets and spending.
- EAP tariff approval still pending with PUC.
- IRP information session and public hearing held on March 12.
- Received IRP proceeding discovery questions from DPS and Intervenors.
- Village Hydroponics agreement executed.
- Winooski One FERC relicensing study plan phase continues with proposed plan document draft.
- FY25 budget development.
- Statewide R&D collaboration meeting.

Sustainability & Workforce Development

- Equity and Project Analyst continued outreach to stakeholder groups and community members, including King Street Laundry, the Bobbin Mill, and the Family Room.
- Equity and Project Analyst attended first Transformative Justice Infrastructure fellowship gathering in Washington, D.C. Organized through Policy Link, RaceForward, and the Government Alliance for Racial Equity, this one-year fellowship supports a cohort of infrastructure-related public sector leaders who embody practices of radical transformation in the transportation, water, housing, planning, and environmental sectors.
- Presented “Our Customers” Lunch-and-Learn for BED staff, offering insight on the diversity and various lived experiences of our residential customers.
- Completed “How to Read Your Energy Bill” video and launched steps for translation into 9 languages.
- Along with Director of Energy Services, met with Department of Planning and Inspections and Vermont Gas to review progress on the rental weatherization policy and to strategize for success in 2024 and beyond.
- Participated in first meeting with the ACEEE technical assistance team regarding Rental Weatherization Ordinance and sharing policy data and updates with non-English speakers and other stakeholders.
- Continue to assist on Building GIANTS pre-award Community Benefits Plan.
- Worked with Communications & Technology Specialist, Adam Rabin, to edit new NZE podcast episodes, including Thor Retzlaff, Founder of Wasted.
- Presented NZE Roadmap to UVM Civil & Environmental Engineering class.

- Prepped for April Better Buildings by Design conference, including panel discussion on EEU's efforts to integrate equity into policy and project design and implementation, featuring EVT, VGS, BED, and stakeholder partner CVOEO.
- Assisted BED e-bike team with strategy on e-bike training and use of e-bike for BED staff.
- Met with BED, VGS, and Burlington 2030 District leadership to discuss 2024 collaboration including attracting new 2030 District members.
- Initiated planning for two BED-2030 District webinars, including April webinar on geothermal for commercial customers featuring BED's Energy Services team and George Martin, LN Consulting.
- Supported development and rollout of new "super users" and gig workers EV Tier 3 programs, including terms, conditions, and qualifying criteria. Along with Policy & Planning, met with Virginie Diambou, Pacifique Nsengiyumva, Shiferaw Gameda, and Jen Myers (CVOEO – ORECI) and Peggy O'Neil-Vivanco and Gabrielle Rainville (UVM – DOE, Clean City / Transportation) to discuss use of program.
- Coordinated BED participation in City of Burlington Job and Internship Fair.
- Initiated planning process for Spring 2024 ONE Energy Clinic with Munt Family Room, to include tables with VGS, EVT and CVOEO Green Energy Coach.

Center for Safety and Risk Management – Paul Alexander

Safety

- Hosted guest speaker on Electric Safety for Operations & Burlington Fire Department.
- Conducted Annual Outage Safety Training for all Generation personnel.
- Conducted weekly field safety inspections.
- Meeting with Modern Mechanical on Railcar door at Swanton Rail Yard.

Environmental

- Completed the new McNeil water chemistry manual with our chemical provider.
- Completed monthly wastewater testing and reporting.
- Completed Draft McNeil Procedure for Operational Upsets.
- Conducted annual outage training for HAZCOM and spill response.
- Working with DAHs engineers on the new system transition.
- Procured new pH meter for improved water testing reliability.
- Reviewed off hours' environmental response to air emissions SOPs.

Risk Management

- New Claims Investigations (2 total: 2 Power Outages).
- Temporary General Services Assistant position filled.
- Reviewed the Certificate of Insurance language on SCADA/MDMS project.
- Create liability release for City Arts Dept Parking (Eclipse event).
- Reviewed FY'24 Insurance allocation splits and direct costs for Finance.
- Reviewed Lakeside Avenue lighting request.
- Tested new FOB software.
- Attended all-day annual outage McNeil safety training and Safety talk in SS.

- Met on McNeil Incident outage process.
- Reviewed and replied to latest draft version of EUV agreement.
- Attended all-day Zurich engineering meeting at McNeil Station
- Attended VT CPCU Chapter meeting (Ethics)

Purchasing/General Services

- Video Wall Demo/Installed.
- Installed Radar System for gated area
- Ordered camera server, SCADA hardware, and SCADA/ADMS/GIS/DMS/OMS
- Began the installation of the key fob readers and panic buttons in the new Dispatch area.
- Ordered HVAC units for new Dispatch area and electric room.
- Ordered Several transformers.

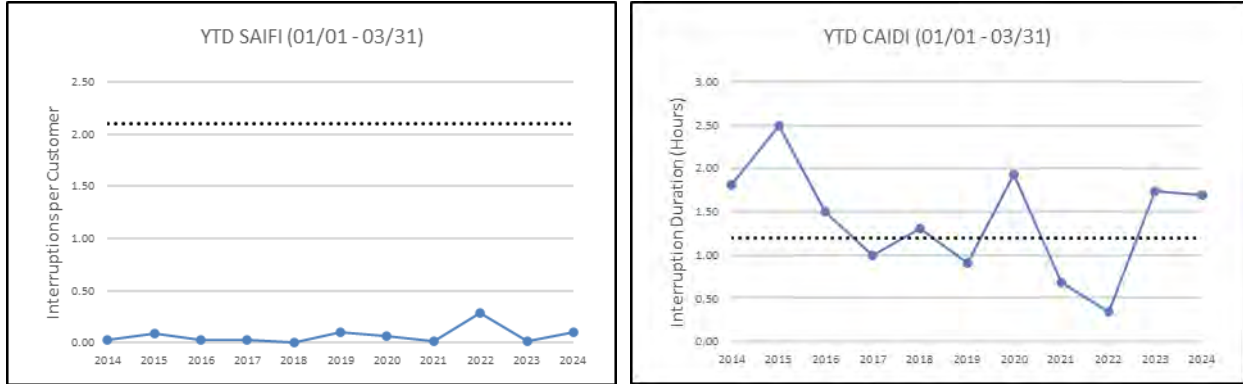
Center for Operations & Reliability – Munir Kasti

- Continued development of the FY2025 Capital Budget.
- Completed rebuild of the overhead distribution circuit on School Street and Ethan Allen Homestead.
- Completed designs for new services for 266 Pine Street, 86-88 Lyman Avenue, and 366 Colchester Avenue.
- Developed designs for new services for Burlington Airport North Terminal, 199 King Street and 121 Austin Drive.
- Started work on replacement of old primary underground cables (2L5 circuit) between East Avenue substation and Main Street Reservoir.
- Started discussions with DPW and the Parks Department on installation of Level 2 and Level 3 EVSE chargers at Fletcher Free Library, Perkins Pier, and Waterfront Pease parking lots.
- Signed agreements and issued purchase order for new SCADA ADMS system with Survalent. The kick off meeting will take place in mid-April.
- Participated in meetings for upcoming work related to the next stage of the Champlain Parkway project.
- Participated in meetings related to the Great Streets-Main Street project.
- Participated in design meetings for a new EV bus charging project at the GMTA bus terminal on Industrial Avenue.
- Continued repair work on the Beltline and Main Street lighting.
- Repaired the lights at Dewey Park.
- Continuing to replace and transfer condemned poles.
- Removed the temporary poles and lighting along the North side of Lakeside Avenue and replaced them with permanent lighting along the South side of the road.
- A crew participated in a touch-a-truck event on Church Street.
- BED's 4th year apprentices started their last year of NEPPA (Northeast Public Power Association) Training.
- Metering and distribution crews completed 23 service Disconnects and Reconnects.

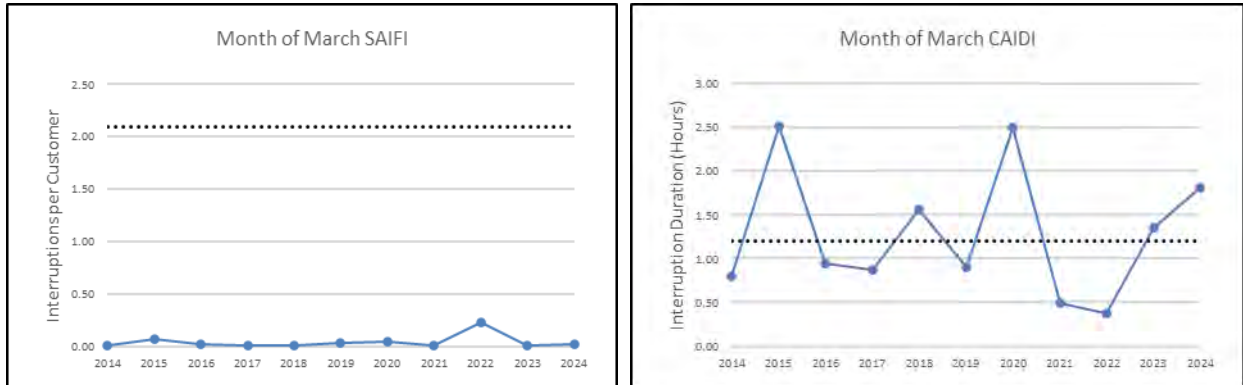
SAIFI & CAIDI Outage Metrics:

BED’s distribution system experienced 22 outages in March 2024 (10 unscheduled and 12 scheduled). BED’s SAIFI for the Month of March was 0.02 interruptions per customer and CAIDI was 1.82 hours per interruption. BED’s YTD SAIFI is 0.1 interruptions per customer and YTD CAIDI is 1.7 hours per interruption. BED experienced a high CAIDI value for the month of March due to multiple transformers that failed and required extended outages to replace.

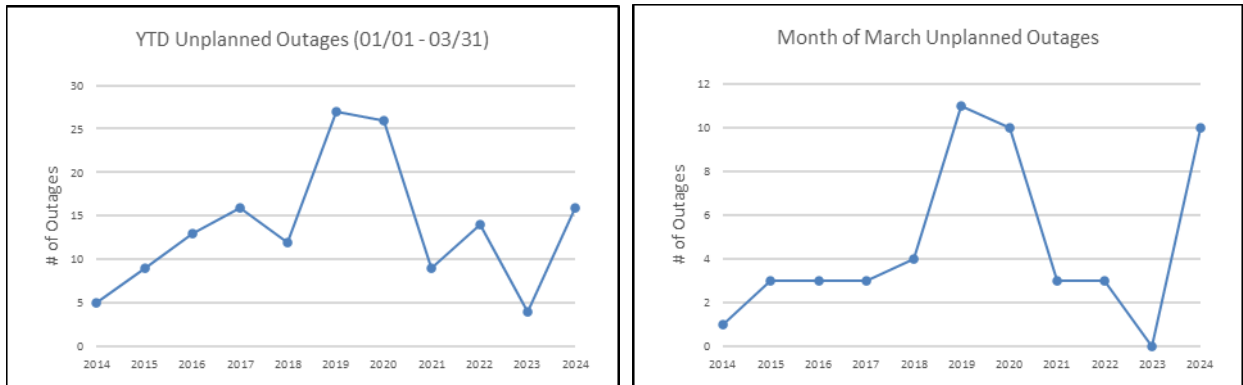
The following figure shows BED’s historical YTD SAIFI and CAIDI:



The following figure shows BED’s historical March SAIFI and CAIDI:



The following figure shows BED’s historical Unplanned Outages:



Generation

McNeil Generating Station

Month Generation:	10,442 MWh
YTD Generation:	63,124 MWh
Month Capacity Factor:	28.07%
Month Availability:	72.85%
Hours of Operation:	258.95 hours

This month at McNeil we conducted routine maintenance and preventative maintenance. McNeil had two outages due to an economizer tube leak and grate issues. We filled a vacant Station Operator position and are currently planning for the spring overhaul.

Winooski One Hydroelectric Station

Monthly Generation:	4,182.31 MWh (122.76% of average)
YTD Generation:	10,371.34 MWh (128.84 % of average)
Month Capacity Factor:	75.96%
Annual Capacity Factor:	64.17%
Month Availability:	99%

This month at Winooski One we conducted routine maintenance, preventative maintenance, and a few process improvement projects. We started spring fishing season on March 15, 2024. We are currently finishing a capital improvement project on our hydraulic rake.

Burlington Gas Turbine

Month Generation:	47.54 MWh
YTD Generation:	98.8 MWh
Month Capacity Factor:	0.0028%
Month Availability:	97.95%
Hours of Operation Unit A:	2.8 hours
Hours of Operation Unit B:	2.8 hours

During the month of March, we conducted routine maintenance and preventative maintenance. We conducted a winter claimed capability audit and training sessions for operators.

Solar (Pine Street 107 kW)

Month Generation:	8 MWh (+94% from previous year)
YTD Generation:	15 MWh
Month Capacity Factor:	10.1 %
Month Availability:	100%

Solar (Airport 499 kW)

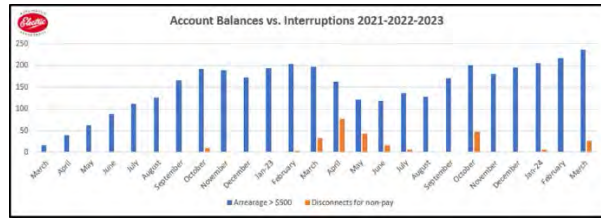
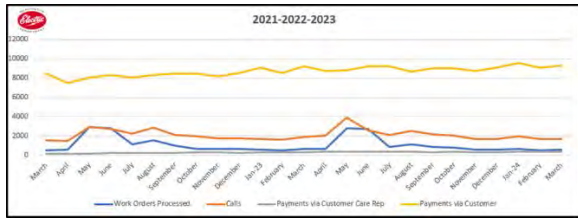
Month Generation:	45 MWh (+52% from previous year)
YTD Generation:	86 MWh

Month Capacity Factor: 12.1 %
 Month Availability: 100%

Center for Customer Care & Energy Services – Mike Kanarick

Customer Care

- **Call Answer Time (75% in 20 seconds):** March 2024 87.7%, February 87.7%, January 86.7%, December 2023 88.6%, November 88.0%, October 84.8%. March 2023 87.9%, February 88.9%, January 85.4%, December 2022 87.5%, November 83.5%, October 85.7%.
- **March 2024 Stats:** please see dashboard for additional metrics categories.



Communications and Marketing

- **Women’s History Month:** in honor of this special month, we featured BED’s own Besty Lesnikoski, Chief Forester, Raquel Glass, CAD, and GIS Technician, and Amber Widmayer, Regulatory Specialist. Check it out on [Facebook](#).
- **Net Zero Energy Roadmap update:** last month, BED shared Burlington’s NZE Roadmap update for 2023 and announced exciting new programs and incentives to accelerate electrification. The update showed a significant overall decline of 18.2 percent in greenhouse gas emissions in the ground transportation and thermal sectors from 2018 to 2023, marking the second largest year-over-year drop in that period. The greatest change was in the building sector, with a 19 percent reduction in fossil fuel use since 2018. Read the press release [here](#).
- **Net Zero Energy Festival – A Supercharged Day of Family Fun:** please mark your calendars for Saturday, September 21, 2024 (rain date September 22). Planning has begun for our 3rd annual NZE Festival to help our community continue to learn how to take steps to meet our Net Zero Energy city goal by 2030. We again will have many activities and provide much information for folks of all ages, including: food trucks, DJ & live music, raffles, E-Bike test rides and EV test-drives, mobile bike repair unit, bike parking, heat pump, solar, and lawn care vendor partners, walking, biking, and carsharing advocates, BED energy experts, CHAMP, and more.

- Net Zero Energy Podcast: we invite you to take a listen at burlingtonelectric.com/podcast. Our latest episode features Thor Retzlaff of Wasted who discusses how his company’s portable toilet rentals are making the most of human waste. Circular sanitation converts waste into fertilizer that is used by local farmers and reduces our carbon footprint.
- New Instructional Video – How to Read Your Electric Bill: to better serve our customers, we have created a video that explains how to read your electric bill. You can view the video [here](#).
- North Avenue News: our April column highlights our new and improved incentives for 2024, including rebates for high-mileage (ride share and food delivery) drivers who switch to EVs, EV chargers, E-bikes, and E-lawn equipment. We also share exciting news about BED’s receipt of a State of Vermont grant to support installation of five new, drop-down, pole-mounted Level 2 EV chargers that will serve on-street parking spaces in areas of the City where residents generally do not have access to off-street parking. You can read the full column [here](#). Our April ad promotes rebates for high-mileage drivers.
- Website and Facebook Highlights
 - Overall site-wide pageviews for March 2024 = 17,841
 - February = 20,104
 - January = 28,240
 - December = 18,224
 - November = 23,720
 - October = 23,493
 - September = 39,590
 - August = 74,791
 - July = 51,931
 - June = 36,499
 - May = 46,750
 - April = 40,507
 - March = 41,409
 - Unique homepage pageviews for March 2024 = 4,747
 - February = 4,750
 - January = 5,273
 - December = 4,596
 - November = 4,846
 - October = 5,206
 - September = 19,583
 - August = 56,889
 - July = 32,716
 - June = 20,495
 - May = 27,691
 - April = 23,286
 - March = 28,317

- Full site visits for March 2024



Visitors by website page

page title	Mar 2024	Feb 2024	Jan 2024	Dec 2023	Nov 2023	Oct 2023	Sep 2023	Aug 2023	Jul 2023	June 2023	May 2023	Apr 2023	Mar 2023
Burlington Electric Department	19583	7431	8218	6780	7431	8029	19583	56880	56108	21676	29074	24511	29277
Careers	318	271	295	192	271	262	318	335	274	220	251	292	286
Commercial Ways to Save	30	31	22	19	31	20	39	30	39	48	49	47	43
Contact Us	908	531	561	497	531	648	968	944	740	762	1192	746	485
Defeat The Peak	151	3	2	5	3	16	151	31	226	172	16	n/a	7
E-Bikes	167	89	83	64	89	112	167	235	234	199	141	205	172
E-billing	276	228	183	219	228	307	276	401	349	337	254	207	240
Electric Vehicles	392	288	404	305	288	388	392	430	309	323	355	454	414
EV Chargers	227	197	266	158	197	172	227	289	212	189	200	181	188
Heat Pumps	366	285	330	218	285	318	366	413	446	501	491	515	446
How To Pay My Bill	149	2303	1782	2309	2303	2457	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Lawn Care	65	60	38	53	60	65	65	126	136	145	274	205	103
Leadership Team	236	191	280	168	191	224	236	251	201	198	210	244	204
McNeil Generating Station	876	990	501	559	990	761	876	559	597	543	572	906	384
Net Zero Energy News	16	5	15	11	5	34	16	12	9	40	12	28	38
Net Zero Energy Podcast	55	50	49	61	50	66	55	43	38	40	43	74	171
New Rates & Temporary Energy Assistance Program	148	135	98	98	135	137	148	129	108	148	115	101	96
Our Energy Portfolio	100	100	70	58	100	52	100	55	78	99	82	94	108
Rates & Fees	239	232	177	192	232	210	239	213	207	198	295	239	216
Rebate Center	728	586	672	493	586	569	728	713	600	715	833	769	652
Rebates	674	564	609	472	564	636	674	715	714	694	776	831	645
Report A Problem	445	97	283	195	97	159	445	295	309	231	104	344	91
Residential Ways to Save	216	138	137	143	138	145	216	157	127	166	181	173	132
RFP	407	522	498	531	522	442	407	626	331	329	329	354	334
RFP Detail	478	1602	841	1493	1602	440	478	1464	148	74	192	190	84
Stop or Start Service	400	273	255	264	273	372	400	713	616	908	2256	603	269
Waste Wood Yard	670	1484	478	614	1484	1137	670	1040	1196	1199	1634	2010	330

*The “My Bill” page was renamed “How To Pay My Bill” in October 2023.

- Top-performing Facebook & Instagram posts (note logo in lower right corner of each photo)

For Women’s History Month we celebrated Betsy, Raquel, and Amber.

Post Content	Date	Reach	Post engagements	Reactions
Betsy Lesnikoski: Branching Out for Sustainab... burlingtonelectric	Fri Mar 29, 9:15am	98	--	8 Likes
Betsy Lesnikoski: Branching Out for Sustainab... Burlington Electric Department	Fri Mar 29, 9:14am	560	85	56 Reactions
Raquel Glass CAD & GIS TECHNICIAN BED is ... burlingtonelectric	Tue Mar 26, 10:13am	136	--	8 Likes
BED is celebrating Women's History Month w... Burlington Electric Department	Tue Mar 26, 10:12am	494	227	88 Reactions
BED is celebrating Women's History Month w... Burlington Electric Department	Mon Mar 18, 8:45am	190	16	11 Reactions
BED is celebrating Women's History Month w... burlingtonelectric	Mon Mar 18, 8:45am	149	--	10 Likes

Pole-mounted chargers going into the ONE



Energy Services

UVM

- 284 East Ave. Physical Plant / Lighting Retrofit – As part of a general renovation, the lighting on the second floor of this office building will be replaced. This includes 100+ two lamp fluorescent fixtures to be replaced by 16W LED 2x2 fixtures. The renovation is now in progress. This will be a custom lighting retrofit measure for BED.
- Stafford Greenhouse / HID Grow Lamp Retrofit to LED – 10 fixtures were retrofitted as part of this project, with 1100W HID fixtures being replaced by 620W LED grow lights. The installation was completed this month, with a final walk-through by BED. The incentive is now in the process of being released to the customer.
- Stafford Greenhouse / HAF Fan Replacements – As part of an energy efficiency effort and to replace existing fans that provide excessive air flow, 14 new fans in the greenhouses have been installed. The existing fans were ¼ and ½ HP units, the new fans being 1/10 HP. BED made a site visit this month to measure fan power of both the existing and proposed units. Savings calculations are completed and all fans are now installed.

UVMMC

- High Bay LED Retrofit in Mechanical Rooms – This MOP involves 1,000 fixtures throughout the ACC mechanical room areas. As part of the rebate offer for this work BED offered extra incentive dollars to assist with the installation costs. A rebate payment was released this month directly to the electrical contractor to pay for the most recent installation work.
- UHC Building / Heat Pump Installation – BED is investigating a custom Tier 3 measure involving three new heat pumps to be installed in the Arnold Wing, 4th Floor. The total tonnage is 12 tons and the intent is to offset a portion of the natural gas heat for these spaces with electric heat pump space heat. BED is intending to create an energy model which will allow us to calculate the expected reduction in natural gas usage so that a rebate offer can be made.

Other Services

- City Market Downtown / Refrigeration Improvements – BED is looking at two upgrades in the store’s refrigeration design. One involves the replacement of the cheese cases in the deli area with stand-alone refrigeration units. The second involves the recommissioning of the Low Temperature Refrigeration Rack where enough loads have been removed due to previous projects such as causing short cycling of the compressors. How this last issue is to be resolved is still under consideration.
- Rhino Foods / Electric Dishwasher Installation – This ice cream ingredient manufacturer is exploring an upgrade to their industrial process. Based on the types of products that they produce, a large portion of their efforts and energy are in clean-up. They are exploring the installation of an industrial electric dishwasher to automate a portion of the cleaning which is

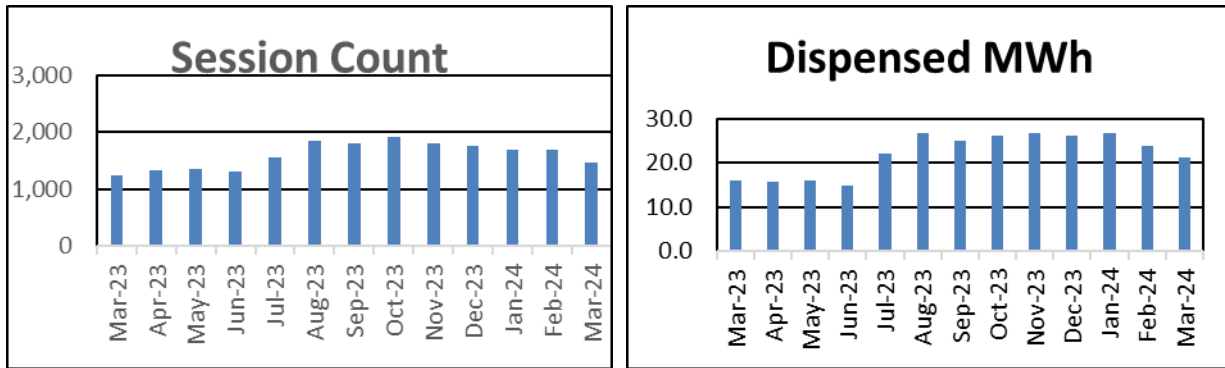
done manually today. This will be an efficiency improvement to their industrial process and reduce manual labor. BED is requesting more information on the natural gas offset calculations for Tier 3. The project may have an electrical efficiency rebate component as well.

- Ohavi Zedek Synagogue / Smart Thermostat Control Improvements – BED was contacted by this customer to determine if incentive assistance might be available for an improved thermostat control system. BED completed a site visit this month which included a discussion of high demand peaks visible in their AMI data. Also, billing questions on the structure of their solar PV credits were answered. Also, VGS is able to assist in providing incentives for the installation of network thermostats.
- Cambrian Rise / Building M New Construction – BED has been in discussion with the architect for this project. Construction is well underway with energy modeling having been incorporated to optimize the building design. Last month BED received a full set of design documents for the project as well as preliminary energy modeling reports. The energy modeling will require updating to develop more detailed baseline and proposed models before a rebate can be determined. These modeling updates are not yet available. In the meantime, BED has been reviewing the drawing set to become more familiar with how the modeling will be structured.
- Burlington City Arts / 405 Pine Major Renovation - This project was completed late last year in this 30,000 SF building. Energy savings will be estimated using our energy modeling method. Final as-built drawings became available this month so that the energy model can be updated to the final building configuration. There is a Tier 3 component as well as an electrical energy efficiency component to the project.
- COTS MF Addition / 278 Main St. New Construction – This addition to an existing COTS building on Main St. is now complete and occupied. It contains 16 apartments and is about 13,000 SF. BED has committed to a rebate for the project which may include a Tier 3 component. BED will be using our energy modeling approach to estimate energy savings. A site visit was completed by BED last month and a rebate contract has been prepared and is ready to be signed.
- Post Apartments / Multifamily & Commercial Space Development – This is a new construction project at the site of the old VFW building. The incentives for the 38-unit residential portion of the building are being developed by BED with the assistance of EVT. The ground floor houses two commercial spaces and the BED commercial energy services group is focused on that portion of the building. BED held a meeting with the owner this month to discuss incentive possibilities for both the multi-family and commercial spaces. An incentive offer was provided to the customer for the electrical efficiencies included in the design of the commercial spaces.
- Rhino Foods / New Freezer Warehouse – An update meeting was held this month between the owner and BED to discuss the decision-making status on project viability. The owner is still moving ahead with the expansion design and is now into the ACT 250 process. Despite the financial environment not improving since late last year, Rhino’s business opportunities are expanding. This makes the prospect of consolidating their processes more locally all that more attractive and cost beneficial.

Electric Vehicles

- As of noon on March 29, the EVSE dispensed a total of 21.2 MWh and supported 1,474 sessions.
- The top 3 sales were 100, 104, and 105 kWh and occurred at the Cherry St. Garage and Main St. (adjacent to CarShare station).

- The top 15 sessions (1% of total) accounted for 6% (1.28 MWh) of the total monthly sale. The seventeen sessions ranged from 72 kWh-105 kWh.
- The EVSE served 706 unique drivers.
- Approximately 18.5% of the energy sold (3.9 MWh) is attributed to the Pine St. DCFC.
- One of the two Pine St. DCFC power modules failed in February resulting in 50% power output. Support states that power module replacement will cost \$10k and estimates labor at \$1k. We are working with the Northeast Acct. Executive to replace for free given station has only been in operation since July 2023.
- The Marketplace Garage DCFC installation is still on-hold.
- The second faulty College St. station was replaced on March 11.
- The 175 Lakeside Ave. station has been posting an *unreachable* alarm. We have been advised to obtain a cellular signal survey at a cost of \$390.
- The Aiken Center station is again posting an *unreachable* alarm. We have been advised to obtain a cellular signal survey at a cost of \$390.
- The tool used to measure cellular signal strength costs ~\$1,500. Given that the site assessment for new installations needs to include this survey, it would make sense for BED to purchase tool. Awaiting a response from engineering.
- BE03/Cherry St. Garage has not dispensed energy since March 11. We are working with ChargePoint to determine next steps.
- Session Count and Dispensed Energy plots from the public charging network are shown below through noon on March 29.



- Number of EV and PHEV rebates to date – 731 (of this 149 LMI rebates to date as shown below)
 - New All Electric Vehicle – 321
 - New All Electric Vehicle (LMI) – 75
 - New PHEV – 152
 - New PHEV (LMI) – 49
 - Used All Electric Vehicle – 57
 - Used All Electric Vehicle (LMI) – 17
 - Used PHEV - 26
 - Used PHEV (LMI) – 8
 - New All Electric Vehicle (\$60K plus) – 23
 - 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 - 272
- Number of E-Motorcycle rebates to date – 2

Electric Vehicle Charging Stations

- Number of home EV charging stations rebates to date – 203
- Number of Multi-family EV charging stations rebates to date – 1
- Number of Multi-family Non-EVmatch-LMI 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 – 2
- Number of Multifamily Non-EVmatch Non-Public – LMI – 8
- Number of Level 2 Workplace charging stations rebates to date – 16

Electric Lawn Equipment to Date

- Number of e-mower rebates to date – 688 (11 commercial & 677 residential)
- Number of e-leaf blowers to date – 77
- Number of Residential e-Trimmers – 80
- Number of Residential e-chainsaws – 17

Heat Pump Installations to Date

Total Heat Pump Installations including Multi-Family New Construction Projects & Installations in existing buildings since the September 2019 NZEC announcement –

- **2,352 installations**

Installations since the September 2019 NZEC announcement

Number of Heat Pump Technology rebates to date - 1,233 (of this 170 LMI rebates to date as shown below):

- Number of ductless heat pumps to date – 721
- Number of LMI eligible ductless heat pumps to date – 139
- Number of centrally ducted heat pumps to date – 252
- Number of LMI eligible centrally ducted heat pumps to date – 18
- Number of air-to-water heat pumps to date – 3
- 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 – 76
- Number of LMI eligible heat pump hot water heaters participants to date – 13

Electric E-Bikes to Date

- Number of e-bike rebates to date – 577

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

- Number of induction Stovetops rebates to date – 77

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

- Number of snow blower rebates to date – 23

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	March 2024 Actuals	Feb 2024 Actuals	Jan 2024 Actuals	2023 Yearly Actual	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Engage Customers and Community									
Call answer time 75% within 20 seconds	75%	88%	88%	87%	avg 82%	avg 82%	avg 82%	avg 81%	
Delinquent accounts >\$500	0	237	216	206	avg 168	avg 188	avg 529	avg 201	
Disconnects for non-payment	0	26	2	6	224	12	0	45	
Energy Assistance Program Customers (program lifetime)	NA	259	251	246	234				
Energy Assistance Program Customers (currently enrolled)	300	237	232	227	219				
# of residential weatherization completions	10	1	1	2	11	5	5	3	11
Weatherization completions in rental properties		1	0	1	8	6	0	0	TBD
# or % of homes or SF weatherized		TBD	TBD	TBD	TBD	TBD	TBD	TBD	0
# of commercial building with improved thermal envelopes		1	1	1	6	4	5	5	0
Total annual mWh saved via the EE programs (annual goal)	4,099	347	325	193	2,940	4053			3057
Total residential annual mWh saved via the EE programs (cumulative for year)	743	105	80	50	494	862			917
Total commercial sector annual mWh saved via the EE programs (cumulative for year)	3,356	242	245	143	2,447	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)	\$ 297,026	\$ 4,264	\$ 11,791	\$ 9,160	\$ 504,942	\$ 335,234	TBD	TBD	TBD
Strengthen Reliability									
SAIFI (AVG interruptions/customer) (annual target)	< 2.1	0.02	0.02	0.07	0.56	1.06	0.22	1.50	1.03
CAIDI (AVG time in hrs to restore service) (annual target)	< 1.2	1.82	0.8	1.90	17.46	21.39		0.55	0.75
Distribution System Unplanned Outages (annual target)	82	10	4	2	39	61	44	90	98
McNeil Forced Outages	0	2	1	1	5	14	5	21	TBD
W1H Forced Outages	0	0	0	0	2	6	9	2	TBD
GT Forced Outages	0	0	1	0	9	6	2	3	TBD
Invest in Our People, Processes, and Technology									
Avg. # of days to fill positions under recruitment	120	198	219	191	219	100	68	179	
# of budgeted positions vacant	0	14	15	14	avg 12	avg 9	avg 9	6	NA

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	March 2024 Actuals	Feb 2024 Actuals	Jan 2024 Actuals	2023 Yearly Actual	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		6	11	13	186	255	315	203	10
# of commercial heat pump installs		1	1	0	8	4	4	13	0
# of residential hot water heat pump installs		0	0	1	31	26	14	6	4
# of commercial hot water heat pump installs		0	0	0	0	0	0	0	0
Heat pump rebates		7	12	13	206	271	328	212	0
Heat pump hot water heater rebates		0	0	1	47	18	15	3	0
LMI heat pump rebates		5	3	1	21	43	28	6	4
Heat pump technology installs in rental properties		0	1	0	8	10	14	9	TBD
LMI heat pump hot water heater rebates		1	0	0	6	1	2	0	1
EV rebates - new		8	9	7	103	53	67	14	36
EV rebates - pre-owned		0	3	1	16	18	7	8	2
LMI EV rebates	See NZE Roadmap Goals below	0	12	1	26	9	11	7	7
PHEV rebates - new		1	2	3	25	27	41	10	17
PHEV rebates - preowned		0	0	1	6	12	6	5	3
LMI PHEV rebates		1	0	2	5	15	13	6	2
Public EV chargers in BTV (total)		32 ports	32 ports	32 ports	32 ports	30 ports	27 ports	27 ports	14
Public EV charger energy dispensed (kWh)		21,200	23,900	26,800	244,300	151,360	86,570	35,690	78,000
Home EV charging station rebates		1	10	7	72	70	32	20	12
EV rate charging customers (total)		272	267	260	246	157	40	40	28
Level 2 charger rebates		0	0	4	10	11	10	0	1
Level 1 charger rebates		0	0	0	0	-	0	1	0
E-bike rebates		0	4	6	147	152	88	36	65
E-mower rebates		0	1	0	135	159	154	95	142
E-forklift rebates		0	0	0	0	1	0	0	0
MWE of Tier 3 measures installed		832	1,477	2,483	22,374	22,837	23,763	35,112	3,342
% Tier 3 obligation met with program measures	100%	22%	19%	12%	117%	131%	159%	283%	31%
<i>Net Zero Energy Roadmap Goals</i>									
# of solar net metering projects installed		1	0	3	32	33	29	24	33
No. of homes receiving NZE Home Roadmaps		0	0	0	-	7	10	7	
Residential heat pumps for space heating (no. of homes)	2023: 10,721	NA	NA	NA	1,952, 18% of goal	1,749	1,448	1,112	925
Commercial heat pumps for space heating (1000 SF floor space served)	2023: 6,230	NA	NA	NA	431, 7% of goal	411	405	374	374
Residential heat pumps for water heating (no. of homes)	2023: 6,194	NA	NA	NA	289, 7% of goal	243	224	208	203
Commercial heat pumps for water heating (1000 SF floor space served)	2023: 1,625	NA	NA	NA	0	0	0	0	-
EV registrations in BTV (light-duty)	2023: 3,772	NA	NA	NA	829, 22% of goal	699	549	361	296
Greenhouse gas emissions (1000 metric tons CO2)	2023: 137	NA	NA	NA	191, 127% of goal	191	188	185	214
Fossil fuel consumption (billion BTU)	2023: 2,194	NA	NA	NA	2,983, 136% of goal	3,285	3,171	3,182	3,660

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	March 2024 Actuals	Feb 2024 Actuals	Jan 2024 Actuals	2023 Yearly Actual	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
<i>Demand Response</i>									
Manage Budget and Risks Responsibly									
<i>Safety & Environmental</i>									
No. of workers' compensation/accidents per month	0	0	1	1	8	16	4	8	
Total Paid losses for workers' compensation accidents (for the month)	annual	\$18,267	\$63,890	\$49,251	\$98,393	\$ 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	2.0	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	107.4	112.63	0.0	41.71	78.2
Lost work days per month	0	31	29	31	avg 12	avg 9	0.0	45	
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	<0.075	0.068	0.068	0.067	0.06	0.06	0.07	0.07	
# of reported spills, waste water incidents (monthly)	0	0	1	1	2	6	4	4	
Phosphorus levels to DEC in lbs (monthly/yearly total)	<0.8/37	0.181/0.984	.144/.84	0.058/0.746	0.705	0.688	2.028		1.169
# of new power outage claims reported (monthly)	1	2	1	1	3	5	7	4	
# of new auto/property/other liability claims reported (monthly)	2	0	2	0	36	27	18	27	
<i>Purchasing & Facilities</i>									
# of Purchase Orders for Inventory (Target: avg for winter months)	42	61	46	52	541	636	644	593	
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	\$78,000	\$531,018	\$79,778	\$728,624	\$2,481,531	\$ 4,861,023	\$ 3,278,620	975,531	
# of stock issued for Inventory (Target: avg during winter months)	320	655	679	518	6,777	6,187	4,402	4,545	
\$ value of stock issued for Inventory (Target: avg. during winter)	\$ 65,000	\$ 349,677	\$ 113,948	\$ 222,270	\$ 1,925,781	\$ 2,200,233	855,456	1,086,478	
# of posters pulled from poles monthly (Target: goal to remove each month)	58	0	0	0	592	900	2,728	627	
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	3	21	14	24	207	132	88	87	
<i>Finance</i>									
Debt service coverage ratio (avg of previous 12-months)	1.25		4.49	5.04	3.81 FY23	4.61 FY22	4.26 FY21	3.77 FY20	3.56 FY19
Adjusted debt service coverage ratio (avg of previous 12-months)	1.5		1.41	1.61	1.29 FY23	1.22 FY22	1.08 FY21	0.93 FY20	0.90 FY19
Days unrestricted cash on hand	>90		119	122	93 FY23	120 FY22	121 FY21	120 FY20	109 FY19
Arrearages >60 days		\$ 410,127	\$ 381,759	\$ 381,652	\$ 392,196	\$ 408,903	\$ 1,087,769	\$ 749,054	
<i>Power Supply</i>									
McNeil generation (MWH) (100%)	per budget	10,442	22,834	29,848	184,798	228,981	273,355	192,696	
McNeil availability factor	100%	73%	71%	90%	84%	67%	80%		
McNeil capacity factor	per budget	28.1%	65.6%	80.2%	42.3%	52.4%	62.4%		
Winooski One generation (MWH)	per budget	4,182	2,627	3,565	36,318	25,350	24,752	21,194	
Winooski One availability factor	100%	99%	99.0%	99.0%	97.2%	98.3%	97%		
Winooski One capacity factor	per budget	76%	58%	65%	56%	41.7%	37%		
Gas Turbine generation (MWH)	NA	47.5	5.6	45.6	475	356	373	441	
Gas Turbine availability factor	100%	98%	98%	100%	46.7%	54.5%	96%		
Gas Turbine capacity factor	NA	0.0%	0.0%	0.3%	0.2%	0.2%	0.21%		
BTV solar PV production (mWh)		403	322	82	4,681	5,260	5,015	5,182	
Cost of power supply - gross (\$000)			3,004	\$2,830	\$30,002	\$36,755	\$30,285	\$31,081	
Cost of power supply - net (\$000)			3,004	\$1,625	\$22,710	\$27,487	\$22,134	\$23,388	
Average cost of power supply - gross \$/KWH			\$0.12	\$0.10	\$0.09	\$0.11	\$0.09	\$0.10	
Average cost of power supply - net \$/KWH			\$0.12	\$0.06	\$0.07	\$0.08	\$0.07	\$0.08	

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

Wednesday, March 13, 2024

The regular meeting of the Burlington Electric Commission was convened at 5:02 pm on Wednesday, March 13, 2024 at Burlington Electric Department at 585 Pine Street, Burlington, Vermont and virtually through Microsoft Teams.

Channel 17 was present to record this meeting.

Commissioners Beth Anderson, Lara Bonn, Jim Chagnon, Scott Moody, and Bethany Whitaker were present at 585 Pine Street.

Staff members present at 585 Pine Street included Paul Alexander, Rodney Dollar, Munir Kasti, Laurie Lemieux (Board Clerk), Paul Pikna, Darren Springer, and Emily Stebbins-Wheelock.

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

1. Agenda

There were no changes to the agenda.

2. February 14, 2024 Meeting Minutes

Commissioner Chagnon made a motion to approve the minutes of the February 14, 2024 Commission Meeting; the motion was seconded by Commissioner Anderson and approved by all Commissioners present.

3. Public Forum

Present for the meeting at 585 Pine Street was Ms. Ashley Adams, Mr. Chris Gish, and Peter MacAusland. Present via Microsoft Teams was Mr. Nick Persampier.

Mr. Persampier, an Old North End resident, is concerned regarding the lack of planning for the closure of the McNeil Generating Plant and its replacement with alternative sources of electricity. Mr. Persampier feels that the science is clear that burning wood to generate electricity puts more carbon dioxide into the air than burning any other fossil fuel. Mr. Persampier stated that it takes decades, if not a century or more for the regrowth of trees to make up that carbon debt, and he feels there is a climate imperative to be moving away from wood burning to generate electricity. Mr. Persampier feels BED should be looking toward renewable sources that truly are low carbon, like wind and solar with battery storage to help with reliability. Mr. Persampier has concerns with the Burlington Electric Department (BED) Integrated Resource Plan (IRP), which is a plan for how power is going to be supplied for the next 20 years. The IRP provides for McNeil to continue operating throughout the 20-year period. Mr. Persampier stated that the

IRP does not evaluate alternatives to operating McNeil, which are necessary to address the climate crisis. The information submitted to the Joint Owners indicates that, as of September 30, 2023, there was a calendar year loss of more than \$4.7M. We had an economic expert look at this issue, and he determined that most years the plant loses between \$6-\$8M, and that the loss would be greater if not including revenues received from REC sales. Mr. Persampier stated that these RECs are now in jeopardy with Connecticut cutting in half the amount it's paying for REDs and we don't know how long this will hold up.

Mr. Persampier stated that, when looking at the forecast for gas prices going forward for a number of years, it just doesn't seem like the price is going to be below McNeil's break-even point, except during the months of December, January, and February, and this year, it wasn't even economical to run McNeil during parts of December.

Mr. Persampier stated that the General Manager has said we can't just look at whether there's a profit and loss for a given year because operation of McNeil and operation at 100 percent renewable allows us to save some costs on some other programs, including the standard offer program and the Renewable Energy Standard Tier 2. It's my position that those programs would provide climate benefits, and a lot of these programs are small scale renewable programs. Mr. Persampier thinks that we put way too much emphasis on maintaining 100 percent renewability, and that not all renewable sources of electricity are created equal. Some of these sources generate greenhouse gases, and others are extremely low greenhouse gas generating. Mr. Persampier thanked the Commission for the opportunity to speak at this meeting.

Ms. Ashley Adams stated that she is a Burlington resident and attended the Vermont Public Utility Commission (PUC) public comment session last night for BED's IRP. She realizes that there was no representation from Burlington Electric Department last night and feels it would have been beneficial for the department to hear public comments. Ms. Adams stated she would like to send the Commission the transcript of that meeting after tonight's meeting. Ms. Adams stated that BED attorney Mr. Bill Ellis was very inappropriate and almost was badgering the public and brought to the PUC's attention that Ms. Adams is the spouse of one of the interveners, which has no bearing on anything.

Ms. Adams stated that she was born in Vermont in 1971, the changes she has seen in this state due to climate change are astonishing, and she grieves those changes for her son. She grieves those changes for anyone growing up in this altered world and, as a captive rate payer, doesn't want to move from Burlington. We know the science behind burning our forests, and we know that upwards of 400,000 tons of CO2 are pumped into the atmosphere every year because of McNeil. We know that 300,000 or 400,000 tons of trees are removed from the forest thanks to McNeil, and we know there is no plan to shut it down and that is unacceptable to her. She stated that she intends to continue spreading the science on the burning of biomass and feels it's really important that this Commission becomes informed not only about the science behind the burning of our forests, but also about the lack of planning on the part of BED. The fact that her rates are funding our demise is unacceptable to her. She will share with the Commission the transcript from last night.

Mr. Gish stated that he attended the last Commission meeting and wanted to follow up on some of the things discussed last month. Also, Mr. Gish stated that he attended the PUC's public comment session last night on BED's IRP and was pretty frustrated with the department's attorney, Mr. Bill Ellis. Mr. Gish stated

that Mr. Ellis' behavior was unprofessional, and that at first it wasn't clear who Mr. Ellis was representing -- whether he was working for the PUC or enforcing the rules of this proceeding. Mr. Ellis also was making claims about rules that may or may not have been true, and accusing individuals of dominating the informational session before the actual hearing when it was actually Mr. Ellis who was dominating the session and making it overall harder for public participation. So that was frustrating, it didn't feel necessary, and I wanted to bring this to the Commissioners' attention.

Mr. Gish wanted to follow up on a couple of things raised at the last meeting and responded to by the General Manager regarding residues and the notion that McNeil is different from other wood burning plants because McNeil's uses residues. Mr. Springer referred to two things, the Integrated Natural Resources Report (INRS) from last summer and the appendix to the purchase wood agreements for whole tree chips. Mr. Gish stated that in the INRS report, the reasoning for claiming that McNeil is burning these residues has no direct data to support that claim. The report says that the growing stock of hardwoods and pines like common trees in Vermont produces a certain number of residues when they're harvested for other purposes, and McNeil harvests use less than that proportion of the total wood harvested, so conceivably McNeil could be getting all its wood from these residues, but there's nothing directly connecting those two things. There's no data collected at any of the harvest sites or anything to show that is happening. Mr. Gish stated that he has visited almost a dozen sites to see what has been harvested for McNeil and you see a lot of these residues or at least the kinds of residues that we want to imagine being burned, like limbs and tops and you see a lot of them on the forest floor. Because logging 101 is if you leave behind what will prevent soil erosion and there are many other places these residues could be going -- , they could be going to firewood, they could be left in the forest but they're definitely not all going to McNeil. Therefore, McNeil is burning just limbs and tops. I also want to bring you back to the definition of residues as defined in the purchase wood agreement. They are defined as residues of tops and limbs, damaged or diseased trees, and otherwise non-commercial wood. The core of the definition is just wood that doesn't have a more profitable market economically at that time. Mr. Gish stated that it's not any kind of physical definition that might inform the carbon intensity of the fuel or any characteristic that we might be concerned with, it's a definition based on the value judgment of economics.

Mr. Gish stated that it's hard for him to hear and not be skeptical about claims that the carbon profile of McNeil is somehow fundamentally different. The idea of residues as there's nothing directly showing that this is a different kind of wood, there would be serious concerns even if taking that amount of wood, even if it were all tiny sticks from the forest, and I don't think there's any conceivable way that's really happening.

4. Commissioners' Corner

There were no Commissioner comments at this time.

5. GM Update

Mr. Springer stated that we are tentatively planning to announce the latest Net Zero Energy Roadmap update data on either March 19 or March 21, along with information on our updated 2024 incentives and several new programs. We are hopeful that Synapse is going to have a report to us in the next several days, and thereafter, and we will release that information publicly.

The Legislature is back in session, and the Renewable Energy Standard (RES) bill is pending in the House. Mr. Springer testified this morning via Zoom to the Energy and Natural Resources Committee about Act 44. We've had some discussion with the Department of Public Service (DPS), where they've wanted to reduce the budget that's available for the efficiency utilities to put resources into emission reduction programs. This affects our heat pump and EV incentives, our geothermal test well program, and multifamily charging programs. These programs all get resources in part from Act 44 and through the efficiency utility and in part from Tier 3 through the general utility. Mr. Springer stated that we are supportive of an effort in the Committee to clarify that the authorized levels for BED that were set in the legislation can be utilized fully. The DPS is taking the view that perhaps there should be a reduction, initially as much as 42 percent over a three-year period, but now that the first year was locked in, they're looking at a 10 to 20 percent reduction, of which we are not supportive. We want to bring as much of that resource as we can to those initiatives. We'll be tracking that effort, as well as the Renewal Energy Standard legislation that might be happening and will continue to be engaged on those items.

BED Low-Income Rate/Energy Assistance Program still is pending at the PUC. The good news is that none of our rate income qualified customers is losing access to the program because the pilot officially has reached its conclusion. We've gotten the authority to extend our customers' participation while the DPS gets additional questions answered in that docket. We are hopeful to move it forward as quickly as possible because some of the changes that the Commission and the City Council authorized would help us auto enroll a number of customers, and potentially expand the participation immediately from 200 customers to approximately 600 to 800 customers. So, we're missing that opportunity while it's pending, but we're hopeful to get it moving in the near future.

BED held a meeting with property owners of buildings in the 25,000-49,999 square foot category in conjunction with District 2030/Green Building Council and other City Departments, to learn about their work on energy efficiency, electrification, and decarbonization. This will help inform our work in the policy space going forward.

Mr. Springer stated that the Charter Change for Line of Credit item was approved by voters, and we will seek to advance it in the Legislature this session for consideration and approval.

6. FY24 January Financials

Ms. Stebbins-Wheelock presented the January 2024 financial results.

The Department's net income for the month of January was \$616K compared to a budgeted net income of \$99K, which is \$516K better than budget. The favorable budget-to-actual variance was primarily driven by the timing of REC revenues that were received in January, one month earlier than budgeted.

Sales to customers were very close to budget with a negative variance of only \$10K. Sales for the fiscal year to-date are within 1% of budget. Other revenues, primarily EEU, were less than budget by \$73K. REC revenue was favorable to budget by \$1.205M for the month.

Net power supply expense was unfavorable to budget by \$541K in January. Within net power supply, fuel expense was favorable to budget by \$92K, primarily due to McNeil production being 13 percent less than budget in January. Transmission expense was favorable to budget by \$12K. Purchased power expense was \$647K worse than budget, with Mystic capacity charges and wind production being lower than budget and ISO-Exchange being worse than budget. For the fiscal year to-date the purchased power portion of the power supply has a negative variance to budget of \$883K, but net power supply expense is favorable to budget by \$485K.

Other operating and maintenance expenses were unfavorable to budget by \$33K for January but are \$501K favorable to budget for the fiscal year to-date. Other income was unfavorable to budget by \$29K.

For FY24 to-date, actual net income is \$2.9M compared to a budgeted net income of \$501K or \$2.4M better than budget.

Ms. Stebbins-Wheelock then provided the Commission on management's forecast for fiscal year-end results. The Department's revised forecast has improved due to changes to assumptions, most significantly fuel, capacity, and purchased power expense. The Department is currently projecting a year-end net income of \$832K, which is a material improvement over the net loss previously projected. Management will continue to monitor the year-end forecast, particularly cash balances.

Capital spending for January YTD was \$3.7M or 34 percent of the budget for the fiscal year.

Operating cash at the end of January was just under \$10M compared to a budget of \$8.7M.

The debt service coverage ratio is 5.04, the adjusted debt service coverage ratio is 1.61, and the days cash on hand is 122.

7. Miscellaneous Service Fees

Ms. Stebbins-Wheelock reviewed the proposed Miscellaneous Service Fees with the Commission.

At the request of the Commission, the Department researched the overlap between customers enrolled in the Energy Assistance Program and customers who have been charged return check/reconnection fees and found none.

We also inquired with TD Bank regarding the Vermont law that prohibits returned check fees. TD was unaware of this law and their legal department is investigating whether a state law applies to TD as a federally chartered bank. In the meantime, they are not charging us the fee.

We have proposed a new definition/description of "power problem investigation-customer responsibility" for the fee currently titled "customer assistance call." Feedback from customers indicated that the current label for the fee is confusing.

The Department also updated its labor estimates for power program investigation.

Finally, the Department is proposing new fees for on-site disconnect/reconnect assistance, to include single meter with and without underground assistance and multi-meter with and without line worker assistance with underground work.

The new proposed Disconnect/Reconnect-Single-Meter fee is \$515; the proposed Disconnect/Reconnect-Single-Meter with Line worker Assistance fee is \$715; the proposed Disconnect/Reconnect Multi-Meter fee is \$586, and the proposed Disconnect/Reconnect Multi-Meter with Line worker Assistance fee is \$785. The Department performed approximately 200 of these services last year, and currently does not charge for it. Typically these requests are driven by some work being performed on the customer's electrical service to expand it, upgrade, or bring it up to code, install solar, do work on the roof, or other similar situations.

Ms. Stebbins-Wheelock stated that there are no additional changes to Initial Service, Reconnection, or Temporary Service vs. what was reviewed and discussed with the Commission last month.

For Initial Service fee – Returning Customer, we are proposing a fee reduction from \$30 to \$6. The description of this fee will state, “Charged to returning customers, including standing orders, whenever the electric service is put in that customer's name at a service location.”

For Initial Service fee – New Customer, we are proposing a fee reduction from \$30 to \$15. The description of this fee will state, “Charged to a customer new to BED's service territory whenever the electric service is put in that customer's name at a service location.”

For Initial Service fee – after hours, we are proposing a fee reduction from \$195 to \$72. The description of this fee will state, “Charged whenever BED personnel are called in to work outside of business hours to respond to a customer request for initial service.”

For Reconnection fee, we are proposing fee an increase from \$20 to \$26. The description of this fee will state, “Charged to restore service remotely to a customer whose service has been disconnected; this fee will be charged instead of the initial service fee when reconnection accompanies a request for service.”

For Reconnection fee – after hours, we are proposing a fee decrease from \$195 to \$93. The description of this fee will state, “Charged to restore service remotely outside of business hours to a customer whose service has been disconnection; this feel will be charged instead of the initial service fee when reconnection accompanies a request for service.”

For the Returned Check fee, the Department is asking the Commission to approve two sets of fees: Returned Check with Bank Fee of \$28 and Returned Check without Bank Fee of \$18. The Commission's approval of both fees will allow the Department flexibility to adjust prior to or during its PUC filing based on updated information from TD Bank.

Meter removal/replacement for siding is proposed to be changed to simply “Meter Removal/Replacement” and the proposed fee would decrease from \$95 to \$78. The more generic description will be more equitable

in allowing the Department to charge for meter pulls that are performed for reasons other than siding work. The description of this fee will state “Charged for removal and replacement of up to two meters during business hours” at a service location.”

For Customer Assistance Calls, both during and after-hours, management’s recommendation is to retitle the fee as “Power Problem Investigation-Customer Responsibility.”

For Power Problem Investigation-Customer Responsibility, we are proposing the fee increase from \$28 to \$132. The proposed description of this fee will state, “Charged whenever a customer asks BED personnel to visit the customer’s location to investigate a problem with the customer’s power and the problem is determined to be the customer’s responsibility. BED will not perform work on equipment that is the customer’s responsibility during a power problem investigation.”

For Power Problem Investigation-Customer Responsibility-after hours, we are proposing the fee increase from \$195 to \$483. The description of this fee will state, “Charged whenever a customer asks BED personnel to visit the customer’s service location outside of business hours to investigate a problem with the customer’s power and the problem is determined to be the customer’s responsibility. BED will not perform work on equipment that is the customer’s responsibility during a power problem investigation.”

Commissioner Moody asked if other utilities have similar fee structures. Ms. Stebbins-Wheelock stated that at the January meeting a fee comparison of utilities was presented. Vermont Electric Coop has a number of levels of fees for disconnection and reconnection with the highest fee stating line crew visits are required, but we haven’t done a deep comparison of other utility fees.

Commissioner Moody stated that he has a couple of concerns: one being whether we are in line with fees charged by other utilities; and another being, since the Commission is just seeing these changes for the first time, to ensure that the public has the opportunity for engagement and comment on the proposed new fees.

Commissioner Chagnon stated that the Department might get pushback from contractors on some of these fees, but overall feels these fees are justified and definitely need updating. Commissioner Chagnon feels that, since some of these fees are increasing quite a bit, we need to ensure that Dispatch is efficient with how they are dispatching crews. Some of these fee changes are significant, and it would be helpful to get this information out to the public and the contractors because ultimately the contractor will be applying these increases to the customer.

Mr. Springer stated that, if this fee structure is approved this evening, it then will need to be approved by the Board of Finance and the City Council and then will need to be filed with the PUC. This approval process will leave plenty of time to engage with the contracting community to inform them of the new rate structure. Mr. Springer also will ask Mr. Munir Kasti and Mr. Paul Nadeau, along with Mr. Bill Ward, Director of Permitting & Inspections, to share the information with contractors. Mr. Springer also noted that the creation of the new fees follows the utility principle of “cost causer pays,” and that without any fee, the costs of the work to benefit one specific ratepayer are currently being spread to all ratepayers.

Commissioner Chagnon agreed with Mr. Springer that we have plenty of time for engagement, and that he is comfortable voting to move this fee structure forward.

Ms. Stebbins-Wheelock shared that the Department heard from four additional customers since the Commission's February meeting; one person expressed that the customer assistance fee was confusing and the other three expressed that the fee changes seemed fair or reasonable.

Ms. Stebbins-Wheelock then provided an updated estimate of the revenue impact of the fee changes. The increased revenue from the new disconnect/reconnect fees will offset the decrease from the new initial service fees, so the entire proposal will be largely revenue neutral.

At this time, Commissioner Whitaker made a motion to recommend that the Board of Finance and City Council authorize BED to submit the proposed changes to the miscellaneous service fee tariff to the Vermont Public Utility Commission for approval; the motion was seconded by Commissioner Bonn and approved by all Commission present.

8. Commissioners' Check-In

Commissioner Whitaker asked Mr. Springer if he would like to clarify some of the public comment that we received about wood residue. Commissioner Whitaker stated that it is her understanding that BED manages the forests with the foresters and that there's a lot of thought involved with how much wood we take and would like some clarification regarding what residue is taken.

Mr. Springer stated that the report that Mr. Gish referenced talks about forest residues and the estimated piece of our supply that comes from forest residues, sawmill residues, the waste wood yard, and low value round wood.

In the study, low value round wood was half a percent of our fuel supply in a given year and includes whole trees that are stored on site like a large log for fuel security.

We have had extensive public engagement on this issue for over a year because of district energy, and one of the things we did in hearing these concerns was update the appendix to our wood contract. We were already saying previously that there is no economic value for somebody to plant a harvest for the purpose of supplying McNeil. We neither pay anywhere near the amount per ton that you would need to make that economically valuable, nor is that consistent with our different standards or any of the desire that we have. We know we are a secondary market for higher value operations that are taking place and, in some cases, because of our sustainability standards that apply if you're selling wood to McNeil, a higher value harvest that might not be subject to any sort of site management requirements is subject to it now, even though we're the secondary market. If you want to sell to us, and in that case we can put some additional scrutiny on the practices, make sure they're done well. All of that said, we updated the appendix to make clear that, if you are cutting wood, we will monitor, manage, and purchase wood; we do not cut wood. These are independent operations. If you're cutting wood to supply McNeil exclusively, we're not interested in that type of operation, and will not accept wood from it. We will not accept cuts that are for energy production, as the carbon value is not favorable relative to using residues.

Mr. Springer stated that it's a very dynamic and complex calculation to look at the true carbon footprint of a resource like McNeil. BED makes it clear that we will take the tops and limbs, the diseased and damaged trees, and the low value wood left over from a commercial harvest. We are not taking the higher value wood that's going to timber, construction, furniture, etc. This procedure is very well-cemented in our contract.

Also, the District Energy resolution that passed the City Council requires BED engage in a third-party study to further verify its wood-procurement procedures. BED plans to include funding for this work in our FY25 budget. In closing, Mr. Springer stated that we have the INRS study, which was the third-party study, we have our contract, and we have four foresters who do the work to verify the site and our harvest management plans. The INRS report shows that, in the land areas where we harvest, there actually has been a net carbon gain as opposed to a loss. In addition, we are going to have an additional third-party study conducted.

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

The meeting of the Burlington Electric Commission adjourned at 6:09 p.m.

Attest:



Laurie Lemieux, Board Clerk



*FY 2024
Financial Review
February*

April 2, 2024

**Burlington Electric Department
Financial Review**

FY 2024

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FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of FEBRUARY FY24

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	53,110	4,403	4,412	10	36,304	36,554	250
Other Revenues	3,775	294	380	86	2,478	2,050	(428)
Power Supply Revenues	8,244	1,733	0	(1,733)	5,768	4,851	(917)
Total Operating Revenues	65,130	6,430	4,792	(1,637)	44,550	43,455	(1,095)
Power Supply Expense (Net)	33,880	2,523	3,004	(480)	22,319	22,314	5
Operating Expense	22,846	1,878	1,836	42	14,976	14,432	544
Depreciation & Amortization	6,630	552	530	22	4,420	4,279	141
Taxes	3,369	286	277	9	2,257	2,266	(9)
Sub-Total Expenses	66,725	5,241	5,647	(406)	43,971	43,290	681
Operating Income	(1,595)	1,189	(854)	(2,043)	579	164	(415)
Other Income & Deductions	5,044	268	504	237	3,234	4,388	1,154
Interest Expense	3,166	262	272	(10)	2,118	2,251	(134)
Net Income (Loss)	283	1,194	(622)	(1,816)	1,695	2,300	605

Year-to-Date Results:

- **Sales to Customers** up \$249,600 (within 1% of budget). Residential Sales up \$19,100 and Non-Residential Sales up \$226,800.
- **Other Revenues** down \$428,000 (17.3%)
 - a. DSM billable (customer driven).
- **Power Supply Revenues** down \$917,000 (15.9%)
 - a. McNeil REC revenue of \$2,258,000 compared to a budget of \$3,059,000.
 - b. Wind REC revenue of \$1,848,000 compared to a budget of \$2,041,000.
 - c. Hydro REC revenue of \$745,000 compared to a budget of \$667,000.
- **Power Supply Expenses (Net)** down \$5,000 (within budget)
 - a. Fuel down \$1,722,000.
 - b. Purchased Power up \$1,744,000.
 - c. Transmission down, \$27,000.
- **Taxes**
 - a. Actual Payment in Lieu of Tax (PILOT) will be \$27,000 higher than budget assumption for the year.
- **Operating Expenses** down \$544,000 (3.6%)
 - a. Various operating expense items are less than budget including Labor & Overhead, (\$401,000), DSM (rebates & outside services) (\$69,000), materials & supplies (\$131,000) and RPS Compliance (\$158,000). Offset by A&G Clearing higher, \$107,000 and amortization expense associated with the Moran Frame Project.
- **Other Income & Deductions** higher \$1,154,000 (35.7%)
 - a. Grant for EV bucket truck, \$560,000.
 - b. Unrealized gain on investment \$337,612.
 - c. Timing of asset retirements budgeted in August/December/February (\$300,000) have not happened.
 - d. Timing of jobbing unfavorable \$185,500.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of FEBRUARY FY24

Capital Spending – February YTD				
(\$000s)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$2,038	\$1,471	\$841	41%
Other	415	293	97	23%
Distribution	7,166	2,735	2,520	35%
General	1,343	936	600	45%
Total	\$10,963	\$5,436	\$4,058	37%

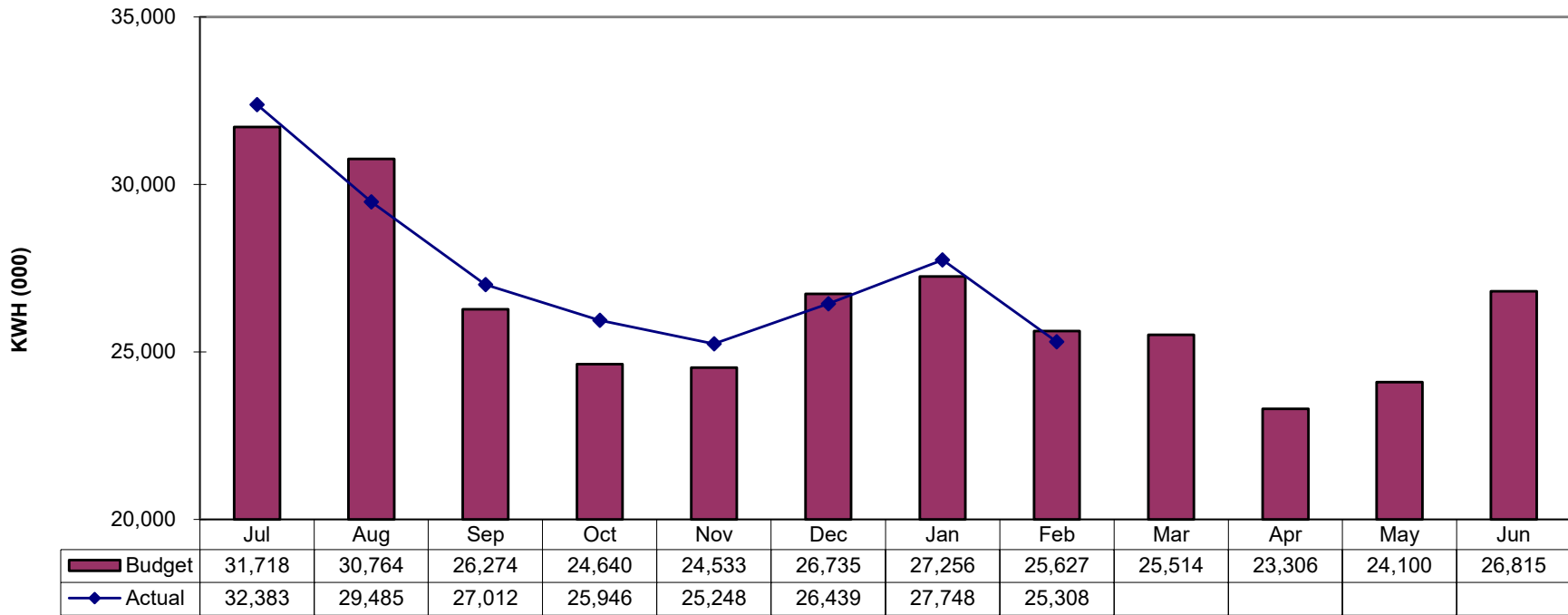
- (1) **Production** – Timing of projects at the McNeil plant, \$417,000 and projects at Winooski One Hydro, \$23,000 and Gas Turbine, \$192,000.
- (2) **Other** – Timing; budget includes Policy & Planning Research & Development, Direct Current Fast Chargers (new locations), EV Charger Installations (Level 2) and P&P Research and Development.
- (3) **Distribution** – Timing of various projects.
- (4) **General** – Actual includes full cost of the all-electric bucket truck less state grant \$560,000.

As of February 29, 2024	
Operating Cash and Investments	
Operating Funds	\$8,256,300
Operating Fund – CDs	\$973,300
Total Operating Cash	\$9,229,600

Credit Rating Factors – February 2024				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	4.49	4.04
Adjusted Debt Service Coverage Ratio	1.50	1.10	1.41	1.17
Cash Coverage - Days Cash on Hand	90	30	119	112

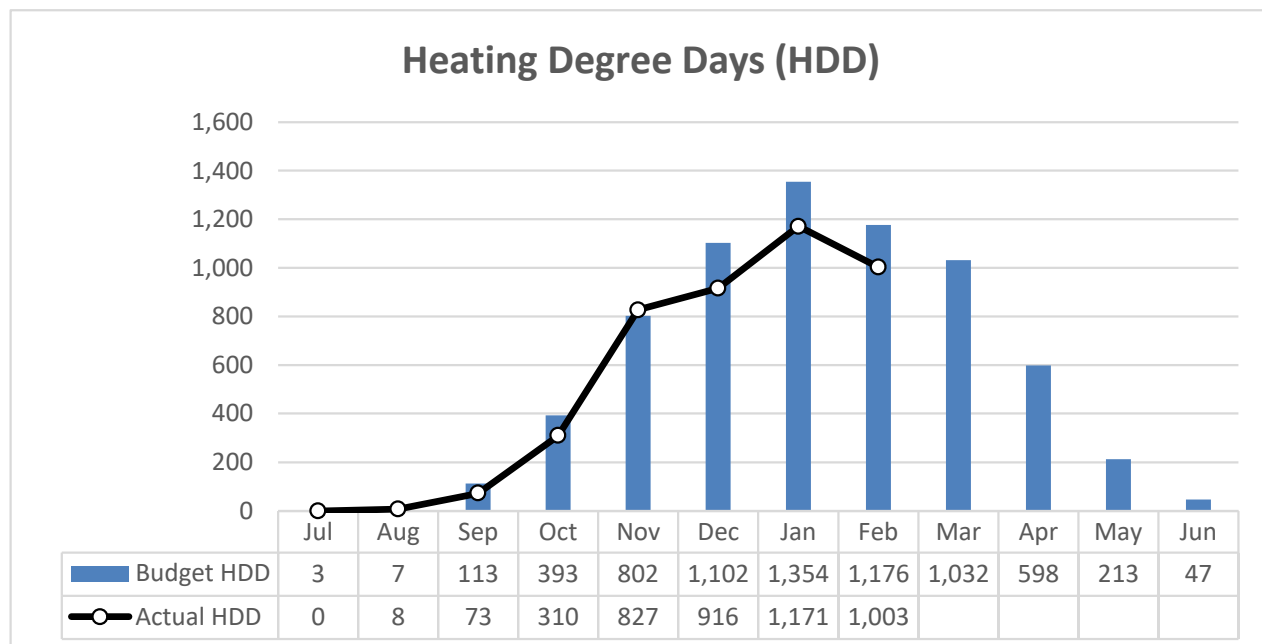
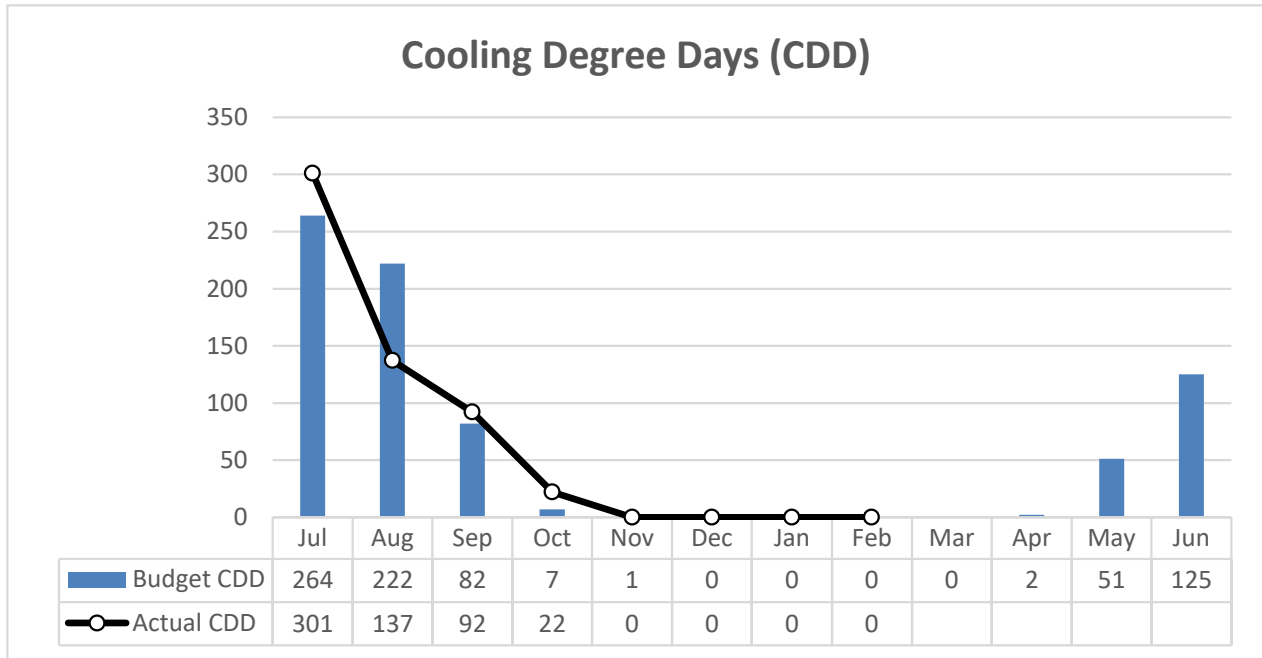
**Burlington Electric Department
Fiscal Year Ending June 30, 2024**

**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	61,868	88,880	114,826	140,075	166,514	194,261	219,569				

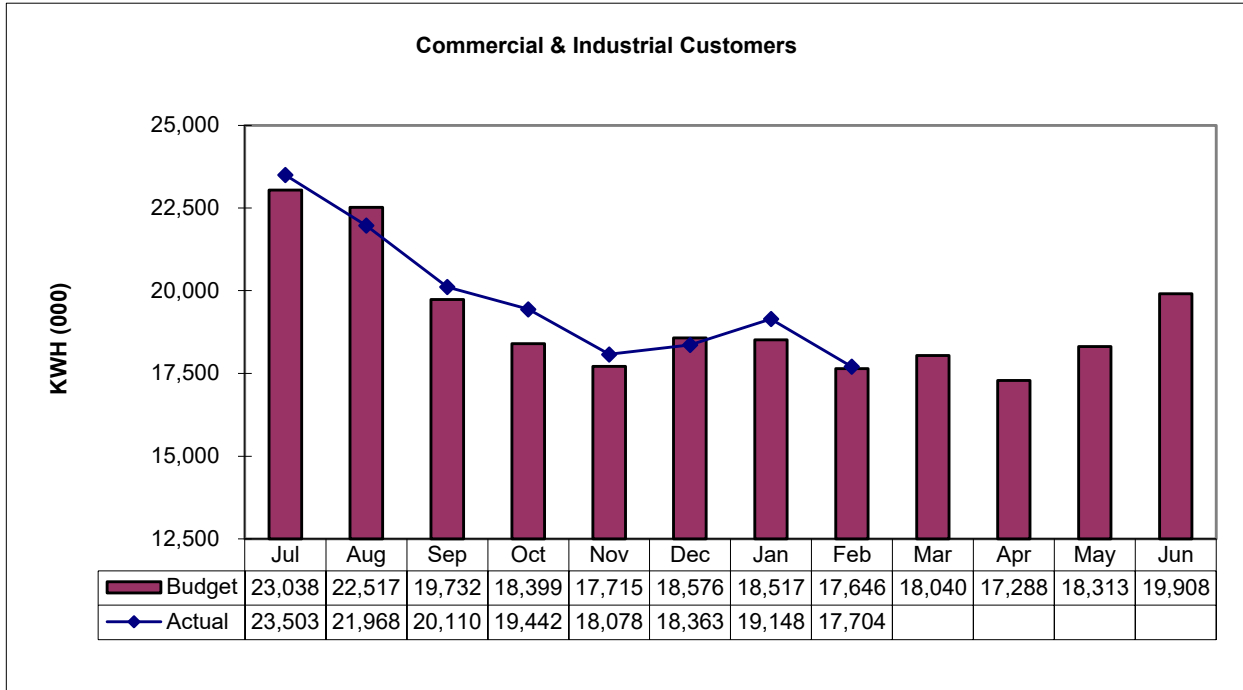
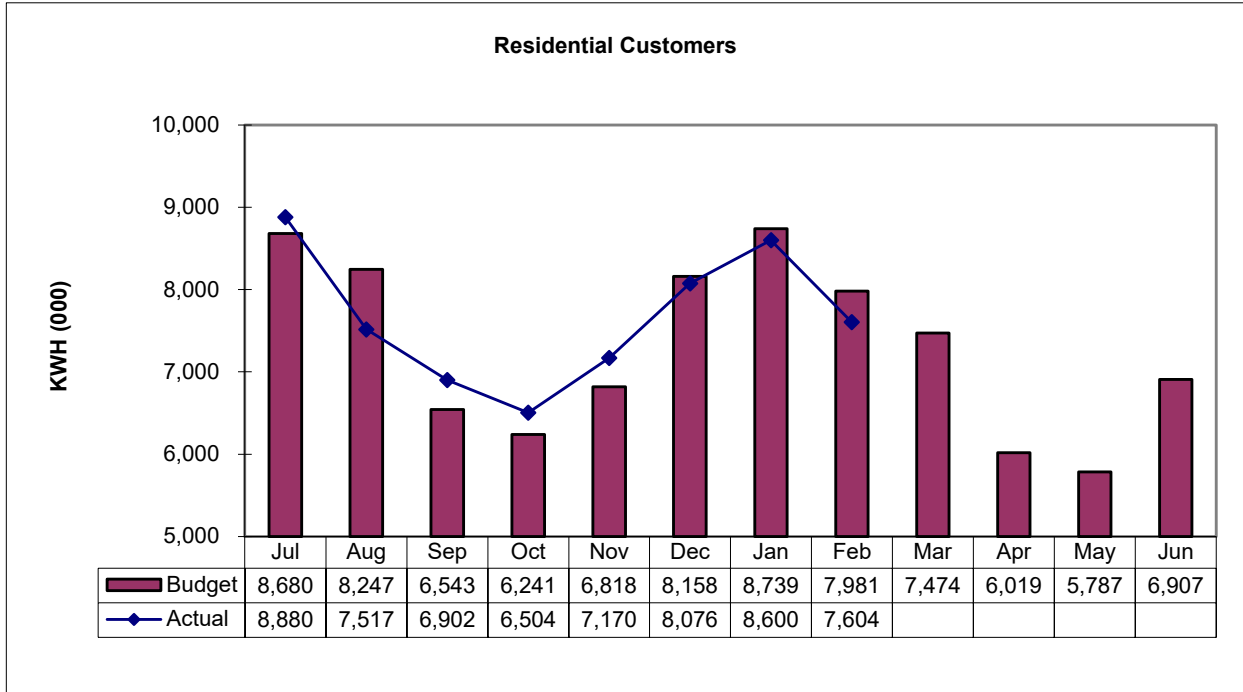
FY 2024



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	69	57	56	37	35	27	26				

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
February - FY 2024**

	(\$000)					
	Current Month			Year-to-Date		
	Budget	Actual	Variance	Budget	Actual	Variance
Expenses:						
Fuel (p. 7)	\$1,103	\$822	\$281 (1)	\$7,159	\$5,437	\$1,722 (1)
Purchased Power (p.11)	490	1,352	(862) (2)	8,445	10,190	(1,744) (2)
Purchased Power Adjustment (p 11)	43	43	(0)	347	347	(0)
Transmission Fees - ISO	663	621	42 (3)	4,808	4,958	(150) (3)
Transmission Fees - Velco	141	81	60 (4)	1,030	929	101 (4)
Transmission Fees - Other	83	84	(2) (5)	530	454	75 (5)
Total Expenses	<u>2,523</u>	<u>3,004</u>	<u>(480)</u>	<u>22,319</u>	<u>22,314</u>	<u>5</u>
Revenues:						
Renewable Energy Certificates - McNeil	1,105	0	(1,105)	3,059	2,258	(801)
Renewable Energy Certificates - Wind	507	0	(507)	2,041	1,848	(193)
Renewable Energy Certificates - Hydro	121	0	(121)	667	745	78
Renewable Energy Certificates - Other	0	0	0	0	0	0
Total Revenues	<u>1,733</u>	<u>0</u>	<u>(1,733)</u> (5)	<u>5,768</u>	<u>4,851</u>	<u>(917)</u> (6)
Net Power Supply Costs	<u>\$790</u>	<u>\$3,004</u>	<u>(\$2,213)</u>	<u>\$16,552</u>	<u>\$17,464</u>	<u>(\$912)</u>
Load (MWh)	26,256	26,050	(206)	223,329	225,941	2,612
\$/MWh	\$30.10	\$115.30	\$85.20	\$74.11	\$77.29	\$3.18

Current Month:

- (1) See detail on page 7.
- (2) See detail on page 11.
- (3) January Peak Load under Budget.
- (4) VELCO Common charges under Budget.
- (5) Some REC Sales Budgeted in February occurred in January.

YTD:

- (1) See detail on page 7.
- (2) See detail on page 11.
- (3) ISO-NE Peak Load over Budget.
- (4) BED Share of VELCO Common charges under Budget.
- (5) NYPA NYISO Transmission charges under Budget.
- (6) REC Sales under Budget due to lower McNeil/Wind production in Cal 2023.

**Net Power Supply Costs
February - 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>
<u>FUEL:</u>						
McNeil:						
Fuel Consumed	802	570	232 (1)	4,979	3,697	1,283 (1)
Swanton Yard	65	65	(1) (1)	421	423	(2) (1)
Train Deliveries	143	107	36 (1)	923	673	250 (1)
Labor & Other Expenses	77	44	33 (2)	706	380	326 (2)
Total McNeil Fuel	<u>1,086</u>	<u>786</u>	<u>300</u>	<u>7,029</u>	<u>5,172</u>	<u>1,857</u>
Gas Turbine	16	36	(20) (3)	131	265	(134) (3)
Total Fuel	<u>1,103</u>	<u>822</u>	<u>281</u>	<u>7,159</u>	<u>5,437</u>	<u>1,722</u>

Current Month:

(1) McNeil production 29% under Budget. Wood Price per Ton 9% over Budget. (p. 8)

(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) Includes previously capitalized B20 project expense. GT production (6 MWh) 83% under Budget.

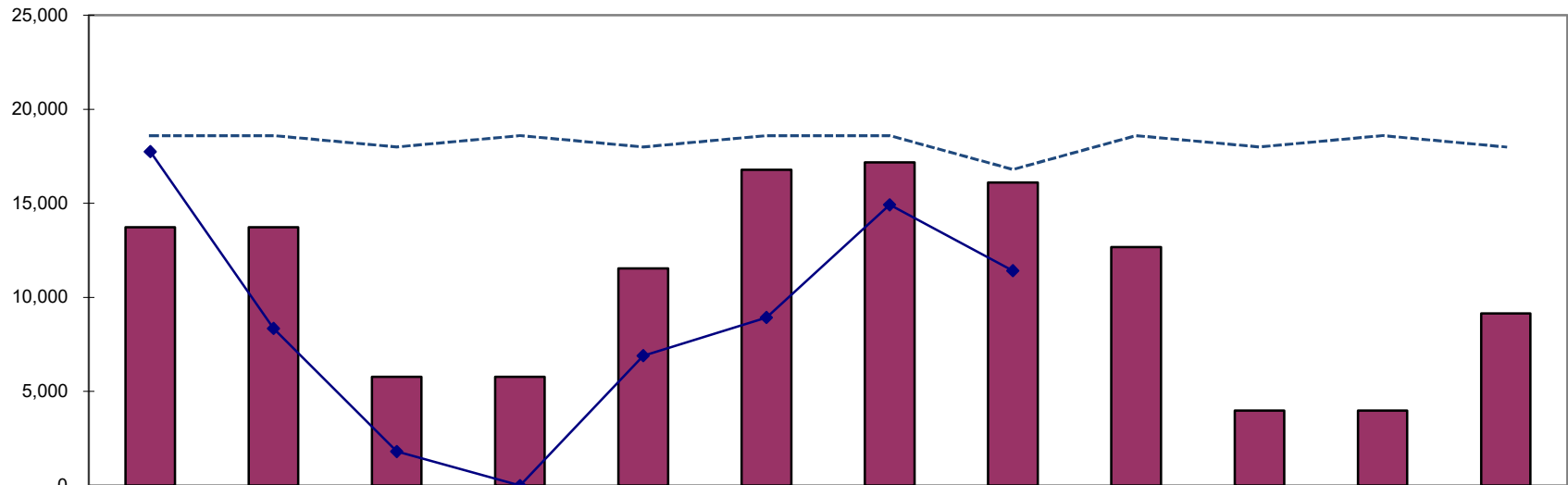
YTD:

(1) McNeil production 30% under Budget. Wood Price per Ton 6% over Budget. (p. 8)

(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.

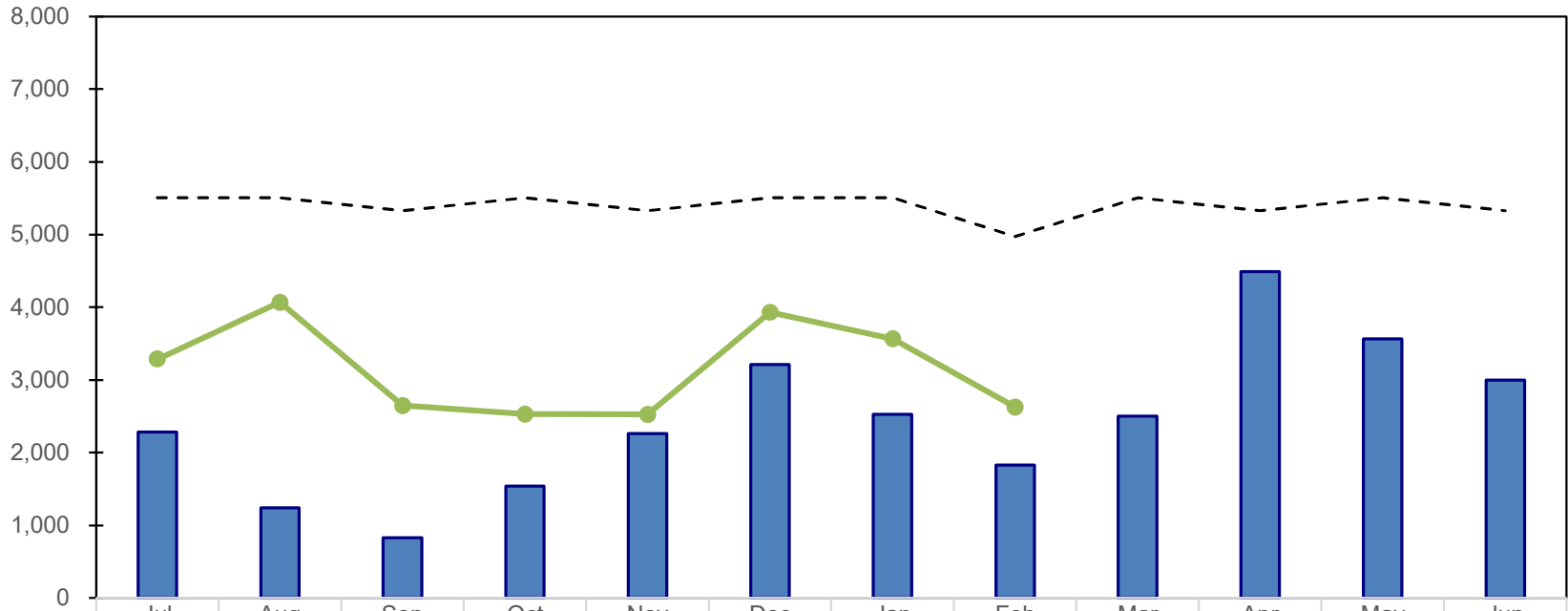
(3) GT production (509 MWh) 90% over Budget. Additional testing for B20 conversion.

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



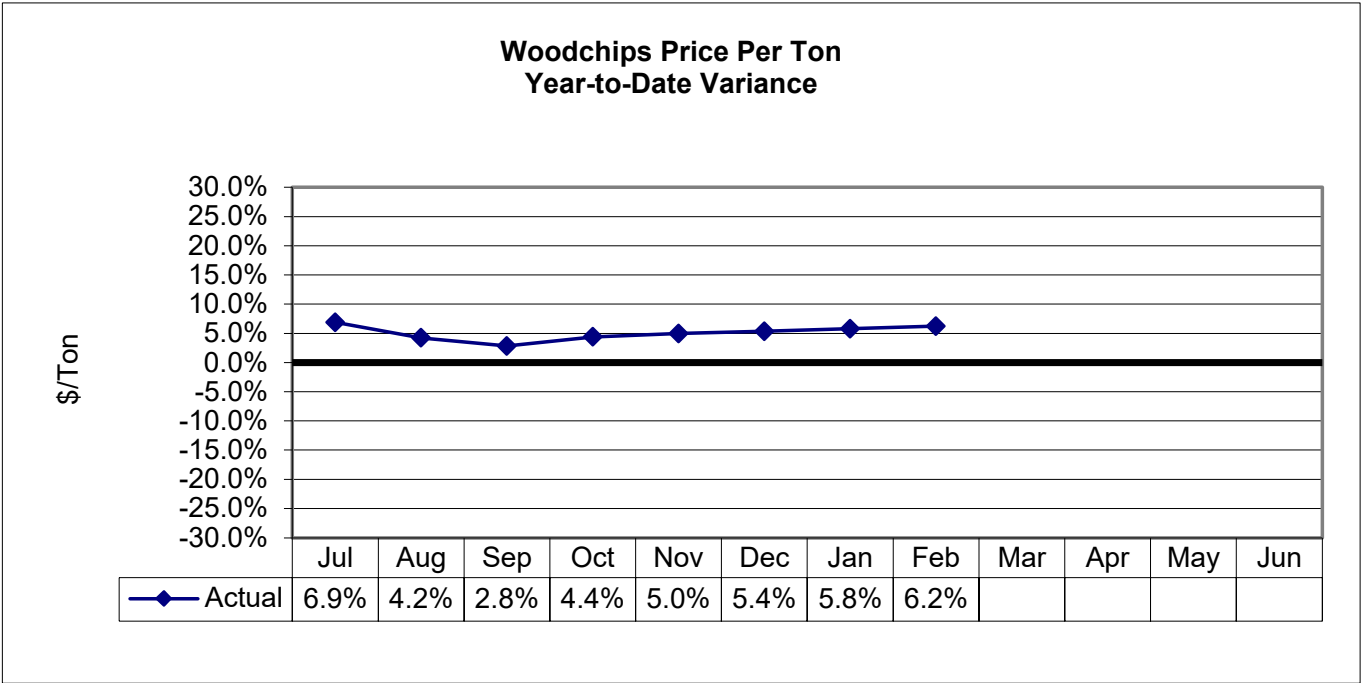
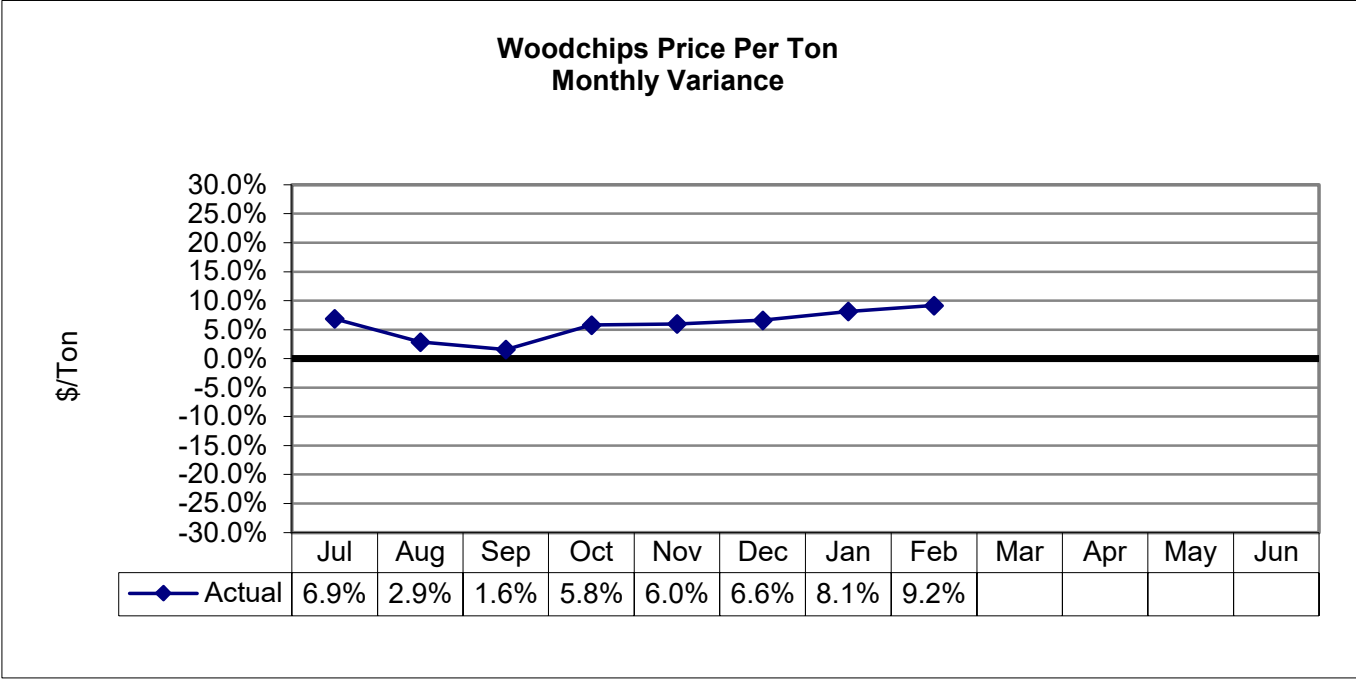
Budget	13,721	13,721	5,764	5,764	11,529	16,785	17,185	16,113	12,671	3,993	3,993	9,152
Actual	17,749	8,344	1,804	0	6,893	8,927	14,924	11,417				
Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

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



Budget	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	4,068	2,649	2,533	2,526	3,933	3,565	2,627				
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
February - FY 2024**

	(\$000)						
	Current Month			Year-to-Date			
	Budget	Actual	Variance	Budget	Actual	Variance	
<u>PURCHASED POWER:</u>							
Non-Energy (capacity)	97	84	13	(1)	817	583	235 (1)
Energy:							
Georgia Mountain Wind	296	301	(5)		2,188	2,003	185 (2)
Hancock Wind	330	325	5		2,131	1,748	383 (3)
VT Wind	233	211	21	(2)	1,598	1,271	326 (4)
Hydro Quebec	300	291	9	(3)	2,414	2,367	47 (5)
Great River Hydro	168	168	1		1,394	1,413	(19)
In City Solar Generators	44	56	(12)		488	436	52 (6)
NYPA	5	7	(2)		49	58	(9)
ISO Exchange	(1,149)	(168)	(981)	(4)	(3,664)	(343)	(3,320) (7)
ISO Exchange Adjustment	43	43	(0)	(**)	347	347	(0) (**)
Velco Exchange	0	(0)	0		0	(2)	2
Total Energy	<u>270</u>	<u>1,234</u>	<u>(963)</u>		<u>6,945</u>	<u>9,299</u>	<u>(2,354)</u>
Ancillary Charges	19	15	4		(173)	61	(234) (8)
Miscellaneous	148	63	85	(5)	1,203	594	609 (9)
Total Purchased Power Expense	<u>534</u>	<u>1,395</u>	<u>(862)</u>		<u>8,792</u>	<u>10,537</u>	<u>(1,744)</u>

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 9% under Budget.
- (3) Price 3% under Budget.
- (4) Energy Prices under Budget. Production (McNeil (29%) and Wind (3%)) under budget.
- (5) Tier 1 compliance expense lower than budget through use of inventory and reduced purchase prices.

YTD:

- (1) Mystic Costs under Budget.
- (2) Production 8% under Budget.
- (3) Production 18% under Budget.
- (4) Production 20% under Budget.
- (5) Price 2% under Budget.
- (6) Solar production under Budget.
- (7) Energy Prices under Budget. Production (McNeil (30%) and Wind (16%)) under budget.
- (8) Forward Reserve Revenues provided by GT under Budget.
- (9) Tier 1 compliance expense lower than budget through use of inventory and reduced purchase prices.

Burlington Electric Department					
Operating and Maintenance Expense by Spending Category					
FY 2024 - February YTD					
	Budget	Actual	Variance	% Variance	*
Labor-Regular	6,199,932	5,859,338	340,594	5%	
Labor-Overtime	330,407	324,896	5,511	2%	
Labor-Temporary	63,000	21,296	41,704	66%	
Labor-Overhead	2,362,660	2,349,635	13,025	1%	a
Outside Svcs	1,705,620	1,869,037	(163,417)	10%	
DSM (rebates & outside services)	1,313,562	1,245,033	68,529	5%	b
Materials & Supplies	589,498	458,711	130,787	22%	c
Insurance	522,289	502,328	19,961	4%	
A & G Clearing	(451,196)	(344,591)	(106,605)	24%	d
Other - RPS Compliance	570,613	412,181	158,432	28%	
Other	1,768,996	1,734,850	34,146	2%	
Operating & Maintenance Expense	14,975,381	14,432,714	542,667	4%	

(a) See page 13.

(b) 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.

(c) Timing; Generation-GT/W1 (\$23,300), Safety/Environmental (\$13,500) and McNeil Plant (\$46,000).

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

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

Labor - Overhead	(000's)			%	
	Budget	Actual	Variance		
Pension	\$1,210	\$1,115	\$96	8%	(a)
Medical Insurance	1,066	1,196	(130)	-12%	(b)
Social Security Taxes	696	619	77	11%	(c)
Workers Compensation Ins.	239	227	12	5%	(b)
Dental Insurance	58	57	1	1%	(b)
Life Insurance	13	13	(0)	-1%	(b)
	\$3,282	\$3,227	\$55	2%	

Rates Table:	Budget
<i>Pension (a)</i>	13.33%
<i>Social Security (c)</i>	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 - February (\$000)

	Ref	Current Month			Year - To - Date		
		Budget	Actual	Variance	Budget	Actual	Variance
Operating Revenues							
Sales to Customers	p.3	4,403	4,412	10	36,304	36,554	250
Other Revenues		294	380	86 (a)	2,478	2,050	(428) (a)
Power Supply Revenues	p.6	1,733	0	(1,733)	5,768	4,851	(917)
Total Operating Revenues		<u>6,430</u>	<u>4,792</u>	<u>(1,637)</u>	<u>44,550</u>	<u>43,455</u>	<u>(1,095)</u>
Operating Expenses							
Fuel	p.6	1,103	822	281	7,159	5,437	1,722
Purchased Power	p.6	534	1,395	(860)	8,792	10,537	(1,745)
Transmission	p.6	887	786	101	6,368	6,341	27
Operating and Maintenance	p.12	1,878	1,836	42	14,976	14,432	544
Depreciation & Amortization		552	530	22	4,420	4,279	141
Revenue Taxes		56	50	5	415	410	6
Property Taxes Winooski One		42	42	(0)	336	338	(2)
Payment In Lieu of Taxes		188	184	4 (b)	1,505	1,518	(13) (b)
Total Operating Expenses		<u>5,241</u>	<u>5,647</u>	<u>(405)</u>	<u>43,971</u>	<u>43,291</u>	<u>680</u>
Other Income and Deductions							
Interest/Investment Income		36	53	17	318	523	205
Dividends		367	367	(0)	2,934	3,011	77
Customer Contributions/Grant Proceeds		0	41	41 (c)	237	664	427 (c)
Gain/(Loss) on Dips of Plant		(135)	33	168 (d)	(286)	15	300 (d)
Other		0	10	10	30	175	145 (e)
Total Other Income & Deductions		<u>268</u>	<u>504</u>	<u>237</u>	<u>3,234</u>	<u>4,388</u>	<u>1,154</u>
Interest Expense		262	272	(10)	2,118	2,251	(134)
Net Income		<u>1,194</u>	<u>(622)</u>	<u>(1,816)</u>	<u>1,695</u>	<u>2,300</u>	<u>605</u>

Current Month:

- (a) Energy Efficiency Program cost reimbursement was higher than planned, \$99,000.
- (b) Actual Payment in Lieu of Tax (PILOT) is lower than budget assumption by \$26,960 for the year.
- (c) Actual includes grant proceeds for flexible load rate design program, \$36,000.
- (d) Timing; Budgeted for loss. Actual includes reversal for a prior year.

Year - To - Date:

- (a) Energy Efficiency Program cost reimbursement was lower than planned, \$383,300.
- (b) See current month.
- (c) Budget assumed customer contributions for Champlain Parkway, \$137,300 and overhead/underground billable, \$99,800. Actual includes billable for overhead/underground projects, \$30,000 and grant proceeds for EV bucket truck, \$560,000 and
- (d) Timing. Budgeted in August, December, February & June. Actual includes a reversal for a prior year.
- (e) Timing of jobbing unfavorable, \$185,500. Offset by interest income & unrealized gain on investment, \$542,000.

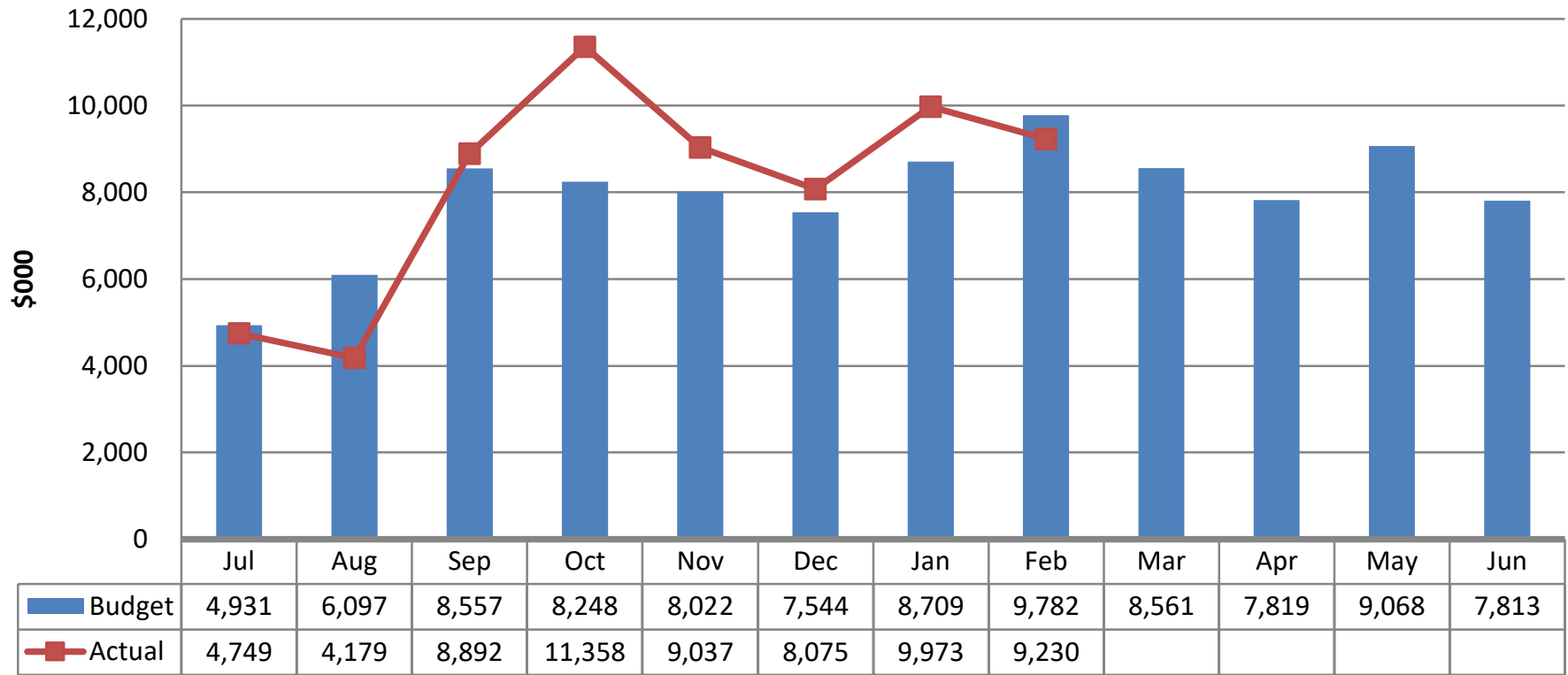
	\$000			
	Full Year Budget	Budget	February Actual	Variance
McNeil (BED 50% Share)				
Turbine Control System Upgrade/Insurance (314)	250	250	123	127
Routine Station Improvements ¹	186	111	43	68
Wood Handling Front End Loader (316)	183	183	175	8
Fuel Oil Tank Replacement Containment Area (312)	125	125	0	125
ESP Transformer Rectifier Controls Upgrade (312)	125	25	6	19
B-Belt Replacement	72		31	(31)
Freight Elevator Geared Equip & Controls (311)	40	40		40
Replacement Rail Cars (392)	38	38		38
Polisher Beads (312)	30	30		30
Augers Replaced (312)	30	15		15
McNeil Replacement Pickup Truck (all electric)	28	28	17	11
Cooling Tower Timber Replacement (314)	25			0
Safety Valve Replacements (312)	25	15		15
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	9	2	7
Station Tools & Tool Boxes (312)	7	4	1	3
End of Life Handheld Radio Replacement (316)	7	7		7
Continuous Emissions Monitoring Repl/Upgrade			72	(72) (a)
Other	20	11	3	8 (b)
Total McNeil Plant	1,262	891	474	417
<i>(a) Prior year project.</i>				
<i>(b) Budget includes rigging equipment, gas burner upgrade, chemical pump replacement, energy efficiency improvements, furniture & equipment cameras.</i>				
Hydro Production	318	300	278	22
Gas Turbine	458	280	89	192
Total Production Plant	2,038	1,471	841	631
Other				
Direct Current Fast Charger (new locations)	281	196	44	152
EV Charger Installation (Level 2)	108	76		76
Policy & Planning Research & Dev	26	21	33	(13)
Public Level 2 EV Charges			12	(12)
Distributed Energy Resources			7	(7)
Total Other	415	293	97	196

	\$000			
	Full Year Budget	Budget	February Actual	Variance
Distribution Plant-General				
Aerial				
Pole Inspection & Replacement	161	96	128	(32)
Pole P2296 Replacement Flynn Avenue	57	57	26	31
Rebuild Austin Dr	68	68	23	44
Replace 2L5 Circuit from P2349-913S	935		11	(11)
Rock Point Bridge Guy Wire Relocation (Rock Pt)	40	40		40
Sunset Cliff Rebuild	53	53	28	25
School St Rebuild			19	(19)
Booth St Rebuild			21	(21)
Pleasant St Rebuild			20	(20)
Total Aerial	1,314	315	277	38
Underground				
Install Cables on St Paul St (Bank to Cherry)	86			0
Main St Great Streets	0		5	(5)
Rebuild Ethan Allen Pkwy to 3 Phase	683	683	615	68
Rebuild Summit Ridge	332	266 #	11	255
Replace 2L5 Circuit from 913S to UH #248	812			0
Replace 322/323/324S (Main St and Univ Hts)	239		1	(1)
Switch 305S/325S/326S (Main St Reservoir)	252			0
Switch 709S/710S (Battery St - College & Main)	57		21	(21)
Switch 817S/912S/913S (Main St Reservoir)	147			0
Battery St UG Replacement Ph 1			116	(116)
Total Underground	2,607	948	768	180
Customer Driven/City Projects				
Champlain Parkway-Billable	269	161	589	(428)
Champlain Parkway (CAFC)	(229)	(137)		(137)
Main Street Great Streets			5	(5)
Total Underground	40	24	595	(571)
Other				
ADMS Phase 1-SCADA upgrade (Repl SCADA Sys)	724	239		239
Communication Equipment Emergency Repair	29	20	3	17
Distribution Transformers	631	411	10	401
SCADA Network Switches Replacement	107	80	8	73
SCADA Servers PC's and Monitors	229	229	36	193
SCADA Video Display	721		244	(244)
Other			16	(16)
Total Other	2,441	979	318	661
Total Distribution Plant-General	6,403	2,266	1,958	309

	\$000			
	Full Year Budget	Budget	February Actual	Variance
Distribution Plant - Blanket				
Aerial	171	121	75	46
Aerial (CAFC)	(65)	(32)	(26)	(6)
Underground	371	192	223	(30)
Underground (CAFC)	(135)	(67)	(3)	(65)
Meters	105	58	88	(31)
Lighting	228	127	189	(62)
Tools & Equipment - Distribution/Technicians	37	29	11	19
Replaces Failed SCADA Field Equipment	23	17		17
Substation Maintenance	17	13		13
Gas Detectors	5	5		5
Pulling Rope Amsteel Blue	7	7	6	1
Total Distribution Plant - Blanket	763	469	562	(93)
Total Distribution Plant	7,166	2,735	2,520	215
General Plant				
Computer Equipment/Software	902	524	185	340 (a)
Vehicle Replacement	259	258	831	(573)
EV Bucket Truck Grant			(560)	560
Buildings & Grounds	176	148	145	3 (b)
AED Purchase	7	7		7
Total General Plant	1,343	936	600	336
Sub-Total Plant	\$10,962	\$5,436	\$4,057	\$1,379
Add: CAFC* reclass to "Other Income"	428	237	589	(352)
Total Plant	\$11,391	\$5,673	\$4,647	\$1,027

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2024 Monthly Ending Balance



Motions:

Item #9 Heat Pump Bill Credit

I make a motion to authorize the General Manager to proceed with seeking City Council approval for, and filing with the PUC, a pilot rate to provide a monthly bill credit to customers installing BED approved measurement and control devices on electric heating systems.

Second:

Item #10 Delegation for Non-disclosure Agreements related to Potential Power Supply Agreements

I make a motion to delegate to the General Manager authorization to enter into Non-disclosure agreements with a term of up to five years, related to potential power supply transaction terms.

Second: