

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

SCOTT MOODY, CHAIR
BETHANY WHITAKER, VICE CHAIR
BETH ANDERSON
LARA BONN
JIM CHAGNON

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

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

Conference ID: 295 615 914#

AGENDA
Regular Meeting of the Board of Electric Commissioners
Wednesday, November 8, 2023 – 5:30 p.m.

- | | |
|---|----------------|
| 1. Agenda | 5:30(5 min.) |
| 2. Minutes of the October 25, 2023 Meeting | 5:35 (5 min) |
| 3. Public Forum | 5:40 (5 min.) |
| 4. Commissioners' Corner (Discussion) | 5:45 (5 min.) |
| 5. GM Update (Oral Update) | 5:50 (10 min.) |
| 6. FY23 Audited Financials (Discussion): (E. Stebbins-Wheelock) | 6:00 (10 min.) |
| 7. Financials: September FY24 (Discussion): (E. Stebbins-Wheelock) | 6:10 (10 min.) |
| 8. SCADA/OMS/DMS Project Overview (Discussion): (M. Kasti) | 6:20 (10 min.) |
| 9. BED 2023 Property/B&M Renewal (Discussion & Vote):
Paul Alexander | 6:30 (10 min.) |
| 10. Commissioners' Check-In | 6:40 (5 min.) |

Attest:


Laurie Lemieux, Board Clerk

If anyone from the public wishes to speak during the public forum portion of the Commission Meeting and/or wishes to be present for the Meeting of the Board of Electric Commission via Microsoft Teams, please email llemieux@burlingtonelectric.com to receive a link to the meeting, or call (802) 489-6254, Conference ID: 295 615 914#

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

TABLE OF CONTENTS
(for 11/08/2023 meeting)

***** FYI *****

- Minutes of the October 25, 2023 Meeting
- October Monthly Report
- Dashboard
- BED 2023 Property/B&M Renewal
- September Financial 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: November 3, 2023
Subject: **October 2023 Highlights of Department Activities**

General Manager

- **Act 44** – BED is concerned about a potential interruption to certain customer incentive programs as a result of processes that will be necessary at the PUC to implement the new 3-year pilot program authorized in Act 44, which is a continuation of the Act 151 current 3-year pilot. Act 151, as a reminder, allows BED to utilize efficiency funds to supplement our emissions reduction programs through Tier 3 and fill gaps in existing programs. Currently Act 151 funding supplements our heat pump, EV, and EV charging rebates, and solely supports our geothermal test well program and EV dealer programs. Absent some type of authorization or a rapid process at the PUC, it is likely certain incentive programs will be reduced or temporarily discontinued in January, pending final approval of BED's Act 44 proposed programs (which also include our new "superuser" EV incentive). Our team is fully exploring options to avoid or minimize disruption to customer programs.
- **Solar Test Center** – The UVM-McNeil solar research center came online in October at an event featuring Senator Sanders, UVM President Garimella, Mayor Weinberger, Encore Renewable Energy, and the BED and McNeil team and McNeil Joint Owners. This is an excellent collaborative opportunity, and a tangible step in our effort to utilize the McNeil Plant and site for energy innovation.
- **District Energy** – We presented on district energy with UVMMC, Ever-Green and VGS at a Council work session Oct. 23. Expecting further Council action later in November, following the Commission's vote to recommend the project and term sheets to the Council.
- **Carbon Fee Ordinance** – Also expecting Council action on the ordinance, which has now passed TEUC and Ordinance Committee, and is ready for full Council deliberation.
- **Charter Change for Line of Credit** – We are working toward placing a ballot item on Town Meeting Day authorizing an increase in BED's line of credit, which has been stagnant while our budget and inflation have increased. A larger authorization would support stronger financial metrics. BED has not utilized the line of credit but it counts towards our days cash on hand metric.

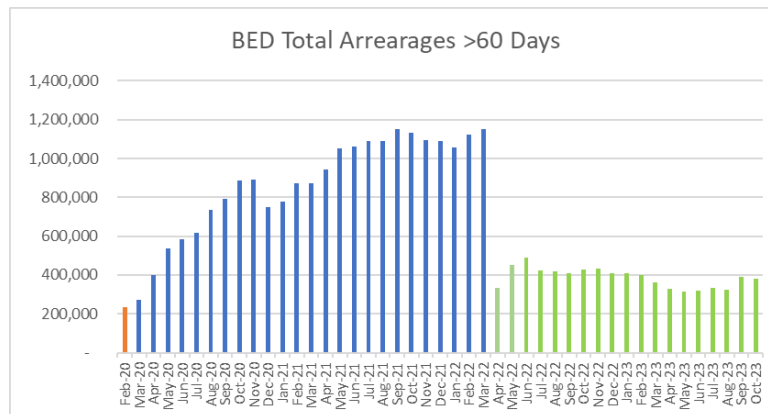
Center for Innovation - Emily Stebbins-Wheelock

- Promoted Amanda Hurlbut to Controller on October 23.
- Coordinating efforts to track and respond to federal and state funding opportunities.

- Sponsoring effort to increase Energy Assistance Program enrollment.
- Overseeing 2022 and 2023 rate case implementation and investigation.
- Continued sponsorship of IT Forward implementations.

Finance & Billing

- Received PUC approval of requested Moran accounting treatment.
- Audited financial statements for Burlington Electric Department were issued by KPMG on 10/28/2023. KPMG issued an unmodified (clean) audit opinion.
- Audited special-purpose financial statements for Joseph C. McNeil Generating Station were issued by KPMG on 10/28/2023. KPMG issued an unmodified (clean) audit opinion.
- Filed audit with bond trustee and ISO-NE.
- Continuing work with external auditors on the statewide EEU audit.
- Reviewed McNeil calendar year 2024 budget.
- Updating debt ratio projections to assess impact of potential future revenue bonds.
- Implemented 2022 rate increase for November 1 following PUC approval.
- Participating in MDMS Phase 2 implementation to support EV charging integration and implement grid analytics modules.
- Pursuing FEMA reimbursement grant for July flooding damage at Winooski One.
- Monitoring receivables in response to COVID19: as of October 31, 2023, BED's total non-current receivables had decreased \$7,150 or 1% compared to the end of September 2023. Arrearages >60 days were \$382,990.



Information Services

- Ongoing involvement in the SCADA/ADMS selection process with the Engineering team.
- MDMS Phase 2 work is underway, beginning with GIS integration.
- CIS project team has had three pre-RFP vendor demos; requirements work continues.
- Full implementation of automatic failover of Burlington Telecom/VELCO internet and VPN.
- Design and architecture of our disaster recovery and SCADA environments underway. RFPs to be issued soon.
- Ongoing phishing and security testing of our users.

Policy & Planning

- Building Grid-edge Integration and Aggregation Network of Thermal Storage (GIANTS) grant proposal in DOE Grid Resilience and Innovation Partnerships selected for award negotiation; filed pre-award information sheet.
- Received PUC approval of June 2022 rate increase filing.
- Received PSD testimony in June 2023 rate filing.
- Reviewed additional IRP chapters with PSD; IRP filed November 1, 2023.
- Filed 2024 Tier 3 Plan.
- Filings with PUC regarding 2024-2027 DRP and Act 44.
- Filed exemption from EV rate requirements with PUC.
- Winooski One FERC relicensing pre-application document filed; held meetings with interested State and Federal agencies.
- Electric Commission approved rolling 12-month REC sales.
- Final work on DES term sheets.
- Winter Readiness Task Force meetings began for FY23-24 winter.
- Received Prosumer Grid draft report.
- Prepared DES Tier 3 evaluation for City Council meeting on Oct 23.
- Freddie Hall presented Lunch & Learn on flexible load management research.
- Continued engagement on RES revisions at Legislature and PSD.
- Contract for energy from Solar Research & Training Center started November 1.
- Contract extension discussions with energy suppliers.
- Grid-Interactive Loads Pilot grant complete.

Sustainability & Workforce Development

- Equity and Project Analyst continued outreach to stakeholder groups and community members, including Family Room, BHA's Bobbin Mill, Hillside Apartments, Northgate Apartments, and King Street Laundry.
- Submitted a proposal to APPA's DEED program to fund the creation of four translated videos intended for BED's diverse customer base in partnership with the Vermont Language Justice Project.
- Facilitated GT tour for new and existing staff as part of BED's monthly tour series.
- Hosted September Lunch and Learn featuring Freddie Hall on heat pump flexible load management and rate design.
- Participated in City team review of Phase 1 of the Burlington Transportation Demand Management Plan, conducted by Nelson Nygaard and managed by City Comprehensive Planner.
- Worked with Communications & Technology Specialist, Adam Rabin, to record and edit new NZE podcast episodes, including with Bill Calfee, Founder of Myti; Jared Duval, Director of the Energy Action Network; Caytie Campbell Orrock, Deputy Director, Building Electrification Institute; and David Lowe, Director, 2030 District Network.
- Along with local government staff from across the State, provided feedback to the Climate Action Office and Agency of Natural Resources on the Municipal Resilience Tool currently in development.

- Attended New England Municipal Sustainability Network Meeting in Portland, ME and presented on Carbon Impact Pollution Fee Ordinance; attended Urban Sustainability Directors Network Meeting in New Orleans.
- Attended 2030 District Steering Executive team meeting and supported hosting the national 2030 District Summit in Burlington, October 17-19.
- Participated in the REV 2023 Conference, and as co-chair, facilitated session with government leadership.
- Attended Ordinance Committee meeting with GM Springer to present a revised and edited Carbon Impact Pollution Fee ordinance.
- Met with non-profit partner ReSource, CEDO staff, and McNeil colleagues to strategize on heavy equipment training as a means to diversify the hiring pool for McNeil and the City.
- Hosted October Womxn in Energy Happy Hour with colleagues from Green Mountain Power, Renewable Energy Vermont, and Encore Energy.
- Facilitated a call between BED GM Springer and Portland, ME's City Attorney and Sustainability Director on Burlington's Carbon Impact Pollution Fee Ordinance and lessons learned and transferability to Portland.
- Hosted gathering of Burlington High School City and Lake Semester students, including a viewing of "Empowered" film featuring BED's work towards NZE.

Center for Safety and Risk Management – Paul Alexander

Safety

- Conducted Pole Top/Bucket Rescue recertifications.
- Conducted monthly inspection of fire extinguisher inspections for Pine Street.
- Conducted lineworker annual breaker rollout demonstrated proficiency.
- Sling inspections, harness inspections, gas detector calibration.
- Completed weekly OSHA 300 reporting.

Environmental

- Conducted confined space rescue training/simulation with the fire department.
- Completed the Q3 emissions report and REC reporting.
- Conducted annual stormwater multi sector general permit inspection.
- Reinstalled CEMs umbilical line for capital replacement.
- Trained McNeil staff on confined space inspections.
- Replaced acid chemical mixing station valves.

Risk Management

- New claims investigations (4 total: 2 Property, 1 Auto, 1 Other).
- Held FM Global tour/survey of BED property and follow-up meetings.
- Oversee and assign Facilities work tickets and GS items on numerous issues.
- Attend L&L (F. Hall).
- Prepare for Property/B&M Insurance renewal with brokers and carriers.
- Revised and edited C4S' section of latest IRP for P&P.

- Attended CC Meeting (DE) and BEC meeting.
- Attended portion of Safety Day (OSHA's Confined Space and BED's APM)
- Attended Travelers' Quarterly Claims review.
- Attended USI's TO/DP monthly meeting.

Purchasing/General Services

- Work continued on the new dispatch center re-location.
- Starting to get equipment ready for the winter.
- Capital work continues on red warehouse secondary egress door.
- Capital work to begin on grate repairs at Gas Turbine.
- Committed to installation of radar detection devices and alarm system to prevent copper theft.

Center for Operations & Reliability – Munir Kasti

Engineering, Grid Services & Operations

- Continued work on designing the replacement of the underground distribution system on Summit Ridge.
- Continued the pole replacement project to replace the condemned poles identified in FY23 pole inspections.
- Continued with the conduit system installation on Ethan Allen Parkway.
- Energized a new service at 15 Conger Avenue.
- Continued work for a new service at 15 Hungerford Terrace.
- Completed electrical distribution system relocation work related to Champlain Parkway on Home Avenue.
- Completed setting new poles and transferring overhead lines to their temporary location on Lakeside Avenue to allow the road work to be completed for Champlain Parkway. The lines will be installed underground when material arrives in December 2023.
- Issued an estimate for a new service at 176 South Winooski Avenue.
- Issued an RFP for a new pad mount switch to replace the existing 716S/728S/729S switch on Lake Street near the intersection of Penny Lane.
- The lead time for transformers is now approximately 12-18 months. Transformers with delivery date in May 2023 have yet to arrive. To account for these long lead times, BED has increased min/max stock levels related to transformers to create more on hand quantities.
- Completed street light designs for the Intersection of Main Street and East Avenue, Battery Street between Maple Street and Pearl Street, North Willard Street, North Avenue between Cambrian Way and Institute Road, and St Paul Street Mid-Block crossing near Smalley Park. These projects will be placed on BED's street lighting plan.
- BED's two lineworker apprentices have completed their third week of training at the Northeast Public Power Association (NEPPA) training facility in Littleton, Massachusetts.
- SCADA/OMS/DMS Project: BED continued to have meetings and correspondence with the vendors to capture specifics and clarifications in the supervisory control and data acquisition (SCADA) system/Outage Management System (OMS)/Distribution Management System (DMS) proposals. This project replaces BED's SCADA system and adds outage and distribution

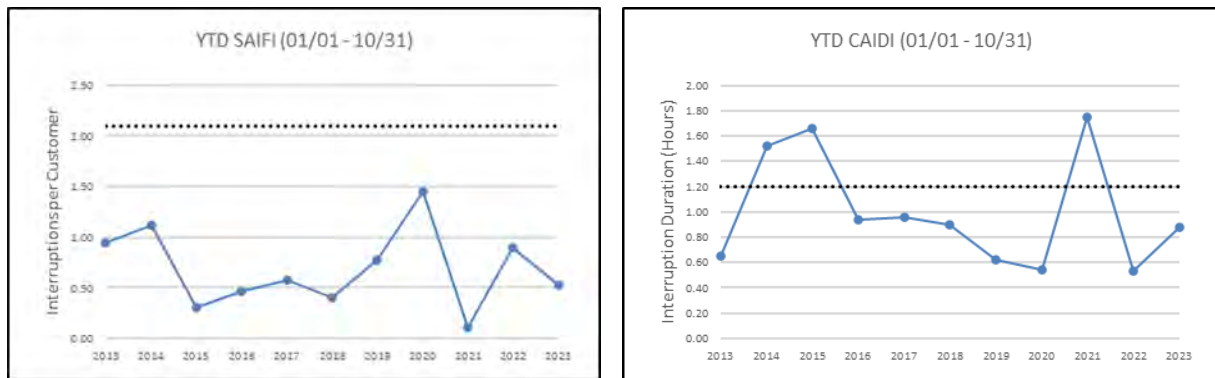
management systems over the next several fiscal years. This SCADA/OMS/DMS project will provide BED System Operations with a powerful tool to better manage our changing distribution network, streamline power outage restorations, analyze system changes, and determine corrective actions to enhance the power quality to our customers.

- SCADA Video Wall: BED reviewed bids submitted for a new video wall and issued a Purchase Order to Mauell for a new video wall to be installed in the new Dispatch Area at 585 Pine Street. The new video wall will consist of 15, 55" LCD panels that will provide full HD resolution for our new SCADA/OMS/DMS system. The lead time for this video wall is about 16-18 weeks.

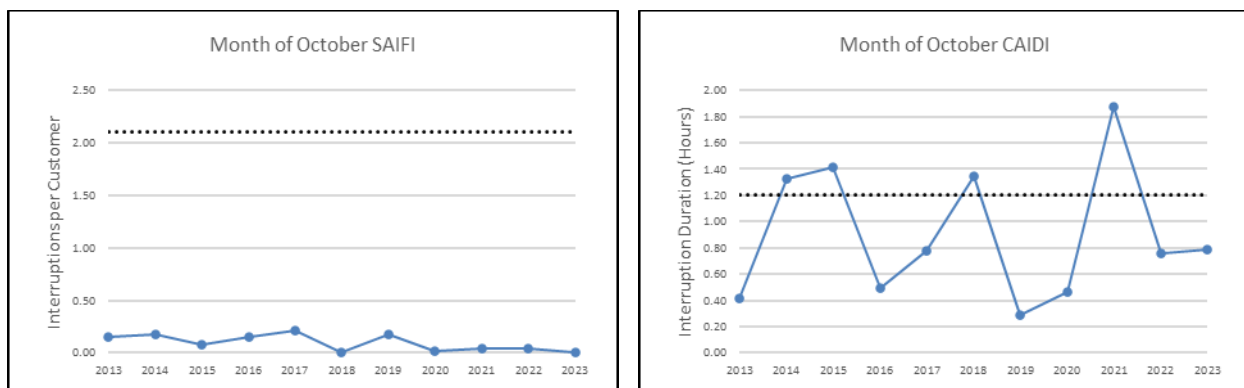
SAIFI & CAIDI Outage Metrics:

BED's distribution system experienced 8 outages in October 2023 (3 unscheduled and 5 scheduled). BED's SAIFI for the Month of October was 0.01 interruptions per customer and CAIDI was 0.79 hours per interruption. BED's YTD SAIFI is 0.53 interruptions per customer and YTD CAIDI is 0.88 hours per interruption.

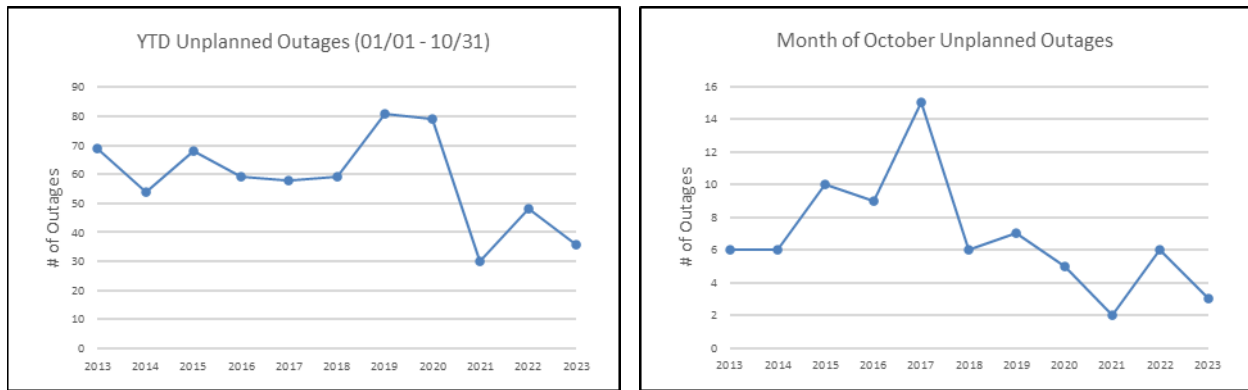
The following figure shows BED's historical YTD SAIFI and CAIDI:



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



The following figure shows BED's historical Unplanned Outages:



Generation

McNeil Generating Station

Month Generation: 0 MWh
 YTD Generation: 153,148 MWh
 Month Capacity Factor: 0%
 Month Availability: 48.39%
 Hours of Operation: 0 hours

Maintenance work was completed at McNeil in October. We also worked to build the fuel supply for the winter run. The projects conducted during this time included boiler mapping and tube repairs, uninterrupted power supply battery bank replacement, ash silo pug mill replacement, auger replacement, miscellaneous maintenance items, and preventative maintenance.

Winooski One Hydroelectric Station

Monthly Generation: 2,533.43 MWH (123.94% of average)
 YTD Generation: 29,721.52 MWH (122.71% of average)
 Month Capacity Factor: 46.02%
 Annual Capacity Factor: 55.05%
 Month Availability: 98%

Routine maintenance, preventative maintenance, and a few process improvement projects were completed in October. We conducted the maintenance on our crosstie breaker, generator breakers, high voltage terminations, and uninterrupted power supply battery bank replacement. Fishing season continues but we have broken our record for the number of fish transported upstream.

Burlington Gas Turbine

Month Generation: 168.13 MWh
 YTD Generation: 317.82 MWh
 Month Capacity Factor: 0.983%
 Month Availability: 100%

Hours of Operation Unit A: 15.2
Hours of Operation Unit B: 15.2

During October we conducted our claim 10 claim 30 audit. There were a few reliability and ISO audit runs of the asset. We started into our bio-diesel conversion process and testing.

Solar (Pine Street 107 kW)

Month Generation: 6 MWh (-33% from previous year)
YTD Generation: 99 MWh
Month Capacity Factor: 7.5 %
Month Availability: 100%

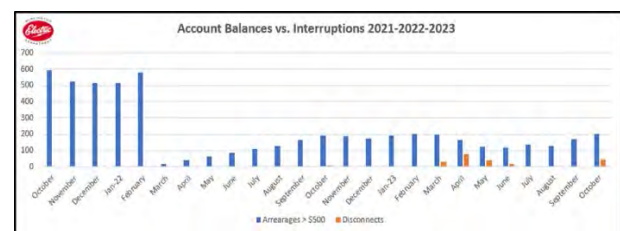
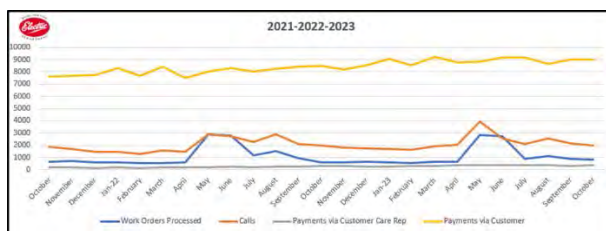
Solar (Airport 499 kW)

Month Generation: 31 MWh (-34% from previous year)
YTD Generation: 519 MWh
Month Capacity Factor: 8.5 %
Month Availability: 100%

Center for Customer Care & Energy Services – Mike Kanarick

Customer Care

- **Call Answer Time (75% in 20 seconds):** October 2023 84.8%, September 76.2%, August 77.0%, July 77.3%, June 79.5%, May 70.9%. October 2022 85.7%, September 2022 81.4%, August 69.5%, July 79.5%, June 77.5%, May 71.1%.
- **October 2023 Stats:** please see dashboard for additional metrics categories.



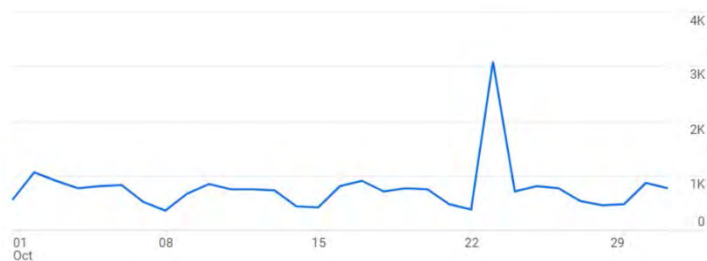
**Please note that our account balances greater than \$500 were substantially reduced with the application of more than \$1M in ARPA funds in early April 2022.*



Communications and Marketing

- UVM Solar Research & Training Facility at McNeil Generating Station announcement: on Monday, October 30, BED hosted this exciting event at McNeil. Speakers included: Mayor Miro Weinberger; Senator Bernie Sanders; GM Darren Springer; UVM President Suresh Garimella; Kirk Dombrowski, UVM Vice President for Research and Economic Development; Emily Ninestein, 3rd-year UVM electrical engineering student; and Chad Farrell, Founder and co-CEO, Encore Renewable Energy. Read the BED press release [here](#) and check out media coverage with [WCAX](#), [WPTZ](#), [WAMC radio](#), and [Vermont Business Magazine](#).
- Annual Net Zero Energy Calendar Contest: Ita Meno and Mike Kanarick, along with Vermont Energy Education Project (VEEP) Executive Director Sophia Donforth, visited the 4th graders in all six Burlington public elementary schools during the weeks of October 9 and 16, engaging in a presentation and conversation about energy. We invited the students to submit artwork that represents their visions of Net Zero Energy, energy efficiency, renewable energy, and sustainability. We judged the student artwork and selected 14 winners for the 2024 calendar. Our in-person celebration will be held at BED on Thursday, November 30 for the winners, their families, teachers, and principals, complete with pizza, cake, certificates, and goodie bags, along with appearances by the Mayor and Lake Monsters' mascot CHAMP.
- Sustainability Academy's 12th Annual Harvest Run for Sustainability: BED sponsored and tabled at this event on Sunday, October 15, engaging with Burlington's Sustainability Academy community.
- Renewable Energy Vermont Conference: BED sponsored and tabled at this two-day conference held at the Hilton DoubleTree Hotel in South Burlington on October 18 and 19.
- Net Zero Energy Podcast: we invite you to take a listen at burlingtonelectric.com/podcast.
- North Avenue News: our November column was written by BED foresters Betsy Lesnikoski, Seth Clifford, Don Tobi, and Kevin Fink, and promoted BED's sustainable forestry practices and the benefits of the McNeil Generating Station and district energy.
- Website and Facebook Highlights
 - Overall site-wide pageviews for October 2023 = 23,493
 - September = 39,590
 - August = 74,791
 - July = 51,931
 - June = 36,499
 - May = 46,750
 - April = 40,507
 - March = 41,409
 - February = 31,290
 - January = 40,165
 - December = 20,272
 - November = 21,290
 - October = 21,797
 - September = 22,639

- Unique homepage pageviews for October 2023 = 5,206
 - September = 19,583
 - August = 56,889
 - July = 32,716
 - June = 20,495
 - May = 27,691
 - April = 23,286
 - March = 28,317
 - February = 15,040
 - January = 21,866
 - December = 8,207
 - November = 7,371
 - October = 6,762
 - September = 6,921
- Full site visits for October 2023



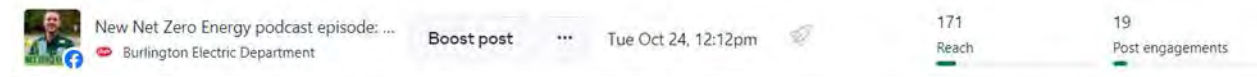
- Visitors by website page

page title	Oct 2023	Sep 2023	Aug 2023	Jul 2023	June 2023	May 2023	Apr 2023	Mar 2023	Feb 2023	Jan 2023	Dec 2022	Nov 2022	Oct 2022	Sep 2022
Burlington Electric Department	8029	19583	56889	36108	21676	29074	24511	29277	19854	26553	8207	7134	7730	8080
How To Pay My Bill	2457	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
My Bill	n/a	3034	4535	4648	2717	2811	2541	2657	2512	2735	2445	2520	2862	2850
Waste Wood Yard	1137	970	1040	1196	1199	1634	2010	330	259	593	590	1234	1332	920
Report A Problem	159	445	295	309	251	104	344	91	74	82	871	167	120	455
Stop or Start Service	372	400	713	616	908	2256	603	269	230	289	273	294	348	407
E-billing	357	276	401	349	337	254	207	240	240	280	234	241	319	330
Contact Us	648	908	944	740	762	1192	746	485	514	474	473	507	510	553
McNeil Generating Station	761	876	559	597	543	572	906	384	334	396	393	614	699	624
Heat Pumps	318	366	413	446	501	491	515	446	421	519	408	883	508	435
Rebates	636	674	715	714	694	776	831	645	562	860	554	584	588	627
Rebate Center	569	728	713	600	715	833	769	652	595	732	524	617	609	597
Rebates for 2023	22	12	30	38	44	59	73	71	219	333	n/a	n/a	n/a	n/a
Stop or Start Service	372	400	713	616	908	2256	603	269	230	289	273	294	348	407
Leadership Team	224	236	251	201	198	210	244	204	191	249	178	202	216	224
Rates & Fees	210	239	213	207	198	295	239	216	169	209	201	226	226	289
RFP	442	407	626	331	329	329	354	331	316	498	413	374	516	419
Residential Ways to Save	145	216	157	127	169	181	173	132	123	125	134	125	133	142
Electric Vehicles	388	392	430	309	323	355	454	414	431	492	331	356	295	355
E-Bikes	112	167	235	234	199	141	205	172	114	118	76	107	151	173
Net Zero Energy Podcast	96	55	43	38	40	43	74	171	37	44	69	67	40	23
Net Zero Energy News	34	16	12	9	40	12	28	38	23	33	40	48	40	37
Electric Vehicles	388	392	430	309	323	355	454	414	431	492	331	356	295	355
Our Energy Portfolio	52	100	55	78	99	82	94	108	85	70	49	65	74	57
Lawn Care	65	65	126	136	145	274	205	103	79	120	67	71	123	110
RFP Detail	440	478	1464	148	74	192	190	84	274	622	195	241	533	214
Defeat The Peak	16	151	31	226	172	16	0	7	3	13	8	9	12	15
Commercial Ways to Save	20	30	36	39	48	40	47	43	28	34	46	49	38	31

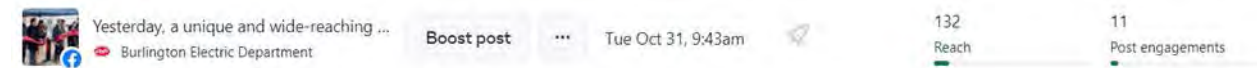
*The “My Bill” page was renamed “How To Pay My Bill” in October.

- Top-performing October Facebook posts

Podcast with Jared Duval



Solar Facility Ribbon Cutting



Energy Services

UVM

- Central Plant Boiler #5 / Combustion Air VFD Modification – This modification to the existing NG Boiler #5 more finely controls combustion air flow to maintain maximum efficiency. This boiler has a 50HP fan motor, so savings are significant. The upgrade was completed in 2022 and pre- and post-electrical and NG consumption data was used to verify savings. Boilers #3 and #4 were completed at an earlier date, but data was not available at that time to verify savings. The data from the boiler #5 project was used to estimate savings from the boiler #3 and #4 upgrade project. BED is awaiting finalized invoicing documentation so that a rebate can be paid. Boilers #1 and #2 have yet to be modified but it is expected that they will be upgraded within the next few months.
- Athletic Facility / Renovation and Energy Modeling – BED attended a presentation / discussion by an energy modeler contracted by UVM to develop a calibrated building model for the athletic facility. This facility has equipment reaching end-of-life and was designed in the 1960's before energy efficiency had become a major design consideration. The energy modeling will help guide the equipment replacement and renovation path and assist in developing energy saving estimates and creating BED rebate offers. The preliminary model now exists and is being refined, and a list of several energy savings measures to analyze has been identified.
- UVM Terrill Hall / Lab Hood Control Improvements – UVM implemented these improvements during the summer of 2022 in order to better stabilize the hood air flow rates and to improve the energy efficiency of the system. There were delays in gathering post-project data based on limited UVM resources to assist BED. That has now been remedied. A lab hood control meeting was held this month to focus on the final energy savings calculations, and we are hoping to finalize this measure before the end of the year.

UVMMC

- Main Parking Garage LED Retrofit – Last month, BED received an inquiry from a local lighting distributor concerning the upgrading of 700 + lighting fixtures in the main parking garage at UVMMC. The present fixtures are HPT8 2-Lamp fixtures installed around 2008. This month, details concerning new fixture specifications and fixture counts were finalized and a site visit completed. BED has now provided an incentive offer to the customer for two different configurations of LED lighting fixtures for the parking garage and we are awaiting a response from the hospital.

- ACC High Bay LED Lighting Retrofit – Several months ago, the hospital purchased 1000 high bay LED fixtures for the ACC mechanical rooms through the Smartlight program. The fixtures are presently being installed. BED committed to contribute an additional rebate towards installation of the fixtures. This month the first installation rebate payment was made to the electrical contractor.

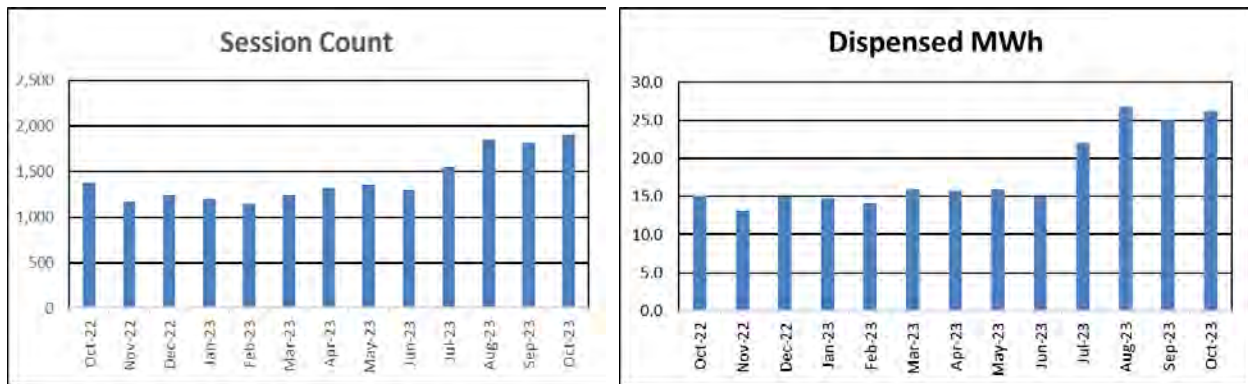
Other Services

- King St. Youth Center / Demand and Energy Reductions – BED was contacted by the building facility manager concerning reliability issues with their battery storage system. An inverter failure and high cost of repair has left this storage resource inoperative. BED is unable to financially assist in the repair of the unit. However, in an effort to further reduce electricity costs, we are in the process of arranging an investigation of the building's DDC system to ensure that it is operating the building's HVAC system in an optimum manner.
- Stash Farm / New Cannabis Grow Business – Updated customer as to how BED incentives are developed for this type of new business. However, the customer is also exploring moving the facility out of Burlington within a few months which will put this customer into EVT EEU territory.
- Hula Apartments / Multi-family New Construction – BED has had very preliminary discussions with the owner's representatives concerning the plans for this undeveloped area in the South End of Burlington. Geothermal-based HVAC is being strongly explored. Considerably more planning and community discussion is expected before plans for the initial building structure are developed.
- 77 Pine St. Bank Building / Multifamily NC – BED is continuing to work on the finalization of the energy savings for this 49-unit building. This involves the calibration of the energy model with building usage. A coordination meeting and site visit was made by BED to facilitate the integration of additional portions of the HVAC system into the DDC platform. This will allow remote access to the equipment to receive alarms and to evaluate HVAC system functionality more fully. This will also help aid in our model calibration process.
- Silt Bathhouse / New Construction (South of the Maltex building) – The proposed site consists of a three-story, 23,000 sq. ft. building. Included are locker rooms, lobby, café, and retail. Also, a kitchen, greenhouse dining space, bathrooms, swim in/swim out space, steam room, mud room/soaking, and a laundry space. The second level consists of massage and treatment rooms, staff lockers, event space, and dining room mezzanine space. The third level consists of office, staff, and storage space. A remote two-story building totaling approximately 675 sq. ft. consists of a sauna, bathroom, and private function space. This is a unique facility to analyze energy efficiency measures for. BED has begun a dialog with the energy modeler for the project, to develop strategies for accurately predicting energy use so that an incentive offer can be developed.

Electric Vehicles

- The EVSE dispensed a total of 26.2 MWh and supported 1,906 sessions.
- The top 3 sales were 100, 101, and 132 kWh and occurred at the Cherry St. and College St. Garages.

- The top 10 sessions (0.5% of total) accounted for 3.6% (954 kWh) of the total monthly sales. The ten sessions ranged from 82 kWh-132 kWh.
- The EVSE served 983 unique drivers.
- The Pine DCFC installation is complete. The commissioning agent has requested installer to add the required rodent guard to be added. We are working with installer to make changes.
- Approximately 24% of the energy (6.3 MWh) that was dispensed in October is attributed to the Pine St. DCFC.
- The Marketplace Garage DCFC installation is still on hold.
- Compensating Burlington Parks, Recreation and Waterfront (PR&W) for the energy dispensed from the Oakledge Park station was determined to be in conflict with our tariffs. P&P is researching options. ES has let PR&W know that we are working towards a solution.
- BE01 (Church and Main) was replaced on 10/23.
- BE13 (Hannaford) will be replaced on 11/1.
- Replacement latches were ordered for several stations.
- Session Count and Dispensed Energy plots from the public charging network are shown below.



- Number of EV and PHEV rebates to date – 618 (of this 117 LMI rebates to date as shown below)
 - New All Electric Vehicle – 260
 - New All Electric Vehicle (LMI) – 56
 - New PHEV – 141
 - New PHEV (LMI) – 44
 - Used All Electric Vehicle – 51
 - Used All Electric Vehicle (LMI) – 13
 - Used PHEV- 25
 - Used PHEV (LMI) – 4
 - New All Electric Vehicle (\$60K plus) – 22
 - 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- 230
- Number of E-Motorcycle rebates to date – 2

Electric Vehicle Charging Stations

- Number of home EV charging stations rebates to date – 177
- Number of Multi-family EV charging stations rebates to date – 11
- 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 - 1
- Number of Multifamily Non-EVmatch Non-Public – LMI – 6
- Number of Level 2 Workplace charging stations rebates to date – 14

Electric Lawn Equipment to Date

- Number of e-mower rebates to date – 681 (11 commercial & 670 residential)
- Number of e-leaf blowers to date – 74
- Number of Residential e-Trimmers – 78
- Number of Residential e-chainsaws – 15

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

- Total Number of Heat Pump Technology rebates to date- 1,119 (of this 151 LMI rebates to date as shown below)
 - Number of ductless heat pumps to date – 672
 - Number of LMI eligible ductless heat pumps to date – 123
 - Number of centrally ducted heat pumps to date – 220
 - Number of LMI eligible centrally ducted heat pumps to date – 18
 - Number of air-to-water heat pumps to date – 2
 - 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 – 71
 - Number of LMI eligible heat pump hot water heaters participants to date – 10

Electric E-Bikes to Date

- Number of e-bike rebates to date – 555

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

- Number of induction Stovetops rebates to date – 63

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

- Number of snow blower rebates to date – 17

BED 2023-2024 Strategic Direction Dashboard

	Target	Oct 2023 Actuals	Sept 2023 Actuals	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Metrics by Strategic Initiative															
Engage Customers and Community															
Call answer time 75% within 20 seconds	75%	85%	76%	77%	77%	80%	71%	85%	88%	89%	85%	avg 82%	avg 82%	avg 81%	
Delinquent accounts >\$500	0	200	171	128	137	118	122	163	197	203	194	avg 188	avg 529	avg 201	
Disconnects for non-payment	0	47	0	0	6	17	42	77	32	3	0	12	0	45	
Energy Assistance Program Customers (program lifetime)	NA	214	201	190	160	154	146	138	134						
Energy Assistance Program Customers (currently enrolled)	300	199	178	158	142	139	128	125	119	119	110				
# of residential weatherization completions	10	1	1	0	1	0	2	3	1		0	5	5	3	11
Weatherization completions in rental properties		0%	1	0	0	0	2	2	0	2	0	6	0	0	TBD
# or % of homes or SF weatherized		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0
# of commercial building with improved thermal envelopes		0	0	1	1	0	1	1	1	0	0	4	5	5	0
Total annual mWh saved via the EE programs (annual goal)	4,657	1,774	1,494	1,343	1,276	1,010	800	654	441	130	TBD	4053			3057
Total residential annual mWh saved via the EE programs (cumulative for year)	748	356	471	399	369	322	286	202	141	60	TBD	862			917
Total commercial sector annual mWh saved via the EE programs (cumulative for year)	3,909	1,418	1,023	943	906	688	514	452	300	70	TBD	3191			2140
% of EEU charge from LMI customers spent on EE services for LMI customers (cumulative for 2021- 2023 year 3-year EEU performance period)	\$ 180,240	\$ 495,118	\$ 490,372	\$ 487,481	\$ 476,874	\$ 474,930	\$ 470,255	\$ 464,839	\$ 375,327	\$ 350,165	\$ 348,213	\$ 335,234	TBD	TBD	TBD
Strengthen Reliability															
SAIFI (AVG interruptions/customer) (annual target)	< 2.1	0.01	0.07	0.23	0.03	0.11	0.01	0.06	0.0	0.0	0.01	1.06	0.22	1.50	1.03
CAIDI (AVG time in hrs to restore service) (annual target)	< 1.2	0.79	2.93	0.23	1.17	0.39	0.91	1.51	1.36	1.22	2.17	21.39		0.55	0.75
Distribution System Unplanned Outages (annual target)	82	3	6	4	8	5	3	2	0	1	3	61	44	90	98
McNeil Forced Outages	0	0	0	0	0	0	0	1	1	0	1	14	5	21	TBD
W1H Forced Outages	0	0	0	0	1	0	0	0	0	0	0	6	9	2	TBD
GT Forced Outages	0	0	1	1	2	0	1	1	1	1	1	6	2	3	TBD
Invest in Our People, Processes, and Technology															
Avg. # of days to fill positions under recruitment	120	265	234	194	184	241	211	155	178	238	179	100	68	179	
# of budgeted positions vacant	0	13	14	12	15	12	11	11	10	7	7	avg 9	avg 9	6	NA

BED 2023-2024 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Oct 2023 Actuals	Sept 2023 Actuals	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Innovate to Reach Net Zero Energy															
<i>Tier 3 Program</i>															
# of residential heat pump installs		23	22	21	11	4	24	13	8	10	25	255	315	203	10
# of commercial heat pump installs		1	1	0	1	0	1	0	0	1	0	4	4	13	0
# of residential hot water heat pump installs		0	11	0	2	2	5	1	1	0	6	26	14	6	4
# of commercial hot water heat pump installs		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heat pump rebates		24	23	23	12	4	31	14	9	12	26	271	328	212	0
Heat pump hot water heater rebates		2	11	0	2	2	3	1	1	16	6	18	15	3	0
LMI heat pump rebates		0	4	2	3	2	0	1	2	0	0	43	28	6	4
Heat pump technology installs in rental properties		1	1	1	0	0	1	1	1	1	1	10	14	9	TBD
LMI heat pump hot water heater rebates		0	1	0	0	0	0	0	2	1	0	1	2	0	1
EV rebates - new		2	6	11	8	9	8	5	10	6	4	53	67	14	36
EV rebates - pre-owned		2	0	4	3	0	0	5	0	0	0	18	7	8	2
LMI EV rebates		5	3	2	1	5	0	0	1	2	1	9	11	7	7
PHEV rebates - new		3	2	1	2	0	1	0	4	3	3	27	41	10	17
PHEV rebates - preowned		0	1	1	0	0	1	1	1	1	0	12	6	5	3
LMI PHEV rebates		1	1	1	0	0	0	0	0	0	0	15	13	6	2
Public EV chargers in BTV (total)		32 ports	32 Ports	32 Ports	32 Ports	30 ports	30 ports	30 ports	30 ports	30 ports	30 ports	30 ports	27 ports	27 ports	14
Public EV charger energy dispensed (kWh)		26,200	25,100	26,800	22,000	14,900	15,900	16,000	15,900	14,100	14,700	151,360	86,570	35,690	78,000
Home EV charging station rebates		4	10	3	2	7	10	12	8	5	3	70	32	20	12
EV rate charging customers (total)		230	228	219	213	208	204	192	178	168	162	157	40	40	28
Level 2 charger rebates		6	0	0	0	0	2	1	0	0	1	11	10	0	1
Level 1 charger rebates		0	0	0	0	0	0	0	0	0	0	-	0	1	0
E-bike rebates		16	14	30	11	22	23	13	3	3	0	152	88	36	65
E-mower rebates		5	14	21	9	21	42	16	0	0	1	159	154	95	142
E-forklift rebates		0	0	0	0	0	0	0	0	0	0	1	0	0	0
MWE of Tier 3 measures installed		2,643	2,105	1,834	1,888	1,737	1,892	1,563	965	786	1,602	22,837	23,763	35,112	3,342
% Tier 3 obligation met with program measures	100%	89%	75%	64%	54%	45%	35%	26%	17%	12%	8%	131%	159%	283%	31%
<i>Net Zero Energy Roadmap Goals</i>															
# of solar net metering projects installed		2	5	2	2	1	1	3	5	4	5	33	29	24	33
No. of homes receiving NZE Home Roadmaps		0	0	0	0	0	0	0	0	0	0	7	10	7	
Residential heat pumps for space heating (no. of homes)	2022: 8615	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	1235, 20% of goal	891	572
Commercial heat pumps for space heating (1000 SF floor space served)	2022: 5397	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	405, 11% of goal	374	374
Residential heat pumps for water heating (no. of homes)	2022: 4365	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	108, 4% of goal	108	87
Commercial heat pumps for water heating (1000 SF floor space served)	2022: 1019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	0	0	-
EV registrations in BTV (light-duty)	2022: 2294	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	549, 45% of goal	361	296
Greenhouse gas emissions (1000 metric tons CO2)	2022: 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	188, 114% of goal	185	214
Fossil fuel consumption (billion BTU)	2022: 2418	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TBD	3220, 120% of goal	3,182	3,660

BED 2023-2024 Strategic Direction Dashboard

	Target	Oct 2023 Actuals	Sept 2023 Actuals	Aug 2023 Actuals	July 2023 Actuals	June 2023 Actuals	May 2023 Actuals	Apr 2023 Actuals	Mar 2023 Actuals	Feb 2023 Actuals	Jan 2023 Actuals	2022 Yearly Actual	2021 Yearly Actual	2020 Yearly Actual	2019 Yearly Actual
Metrics by Strategic Initiative															
<i>Demand Response</i>															
Manage Budget and Risks Responsibly															
<i>Safety & Environmental</i>															
No. of workers' compensation/accidents per month	0	0	0	2	1	0	1	1	0	1	0	16	4	8	
Total Paid losses for workers' compensation accidents (for the month)	annual	\$15,571	\$30,882	\$2,298	\$3,887	\$10,839	\$5,357	\$4,412	\$2,472	\$8,466	\$4,031	\$ 145,102	\$ 93,612	\$ 165,402	\$38,288
Lost Time Incident Rate (days/year) (Dec numbers reflect annual results)	<= 3.5 annual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.99	0.0	0.93	0.89
Lost Time Severity Rate (days/year) (Dec numbers reflect annual results)	<= 71 annual	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.63	0.0	41.71	78.2
Lost work days per month	0	31	30	21	0	0	0	0	0	0	0	avg 9	0.0	45	
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	<0.075	0.0	0.072	0.072	0.069	0.067	0.075	0.070	0.070	0.070	0.067	0.06	0.07	0.07	
# of reported spills, waste water incidents (monthly)	0	0	0	0	1	1	0	0	0	0	0	6	4	4	
Phosphorus levels to DEC in lbs (monthly/yearly total)	<0.8/37	0.0/0.714	0.071/0.774	0.074/0.707	0.049/0.639	0.032/0.597	0.048/0.674	0.294/0.650	0.037/0.475	.050/ .543	0.017/0.560	0.688	2.028		1.169
# of new power outage claims reported (monthly)	1	0	2	1	0	0	0	0	0	0	0	5	7	4	
# of new auto/property/other liability claims reported (monthly)	2	4	2	2	5	4	6	2	4	2	2	27	18	27	
<i>Purchasing & Facilities</i>															
# of Purchase Orders for Inventory (Target: avg for winter months)	42	61	50	31	61	23	36	59	56	72	40	636	644	593	
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	\$78,000	\$172,675	\$123,262	\$227,144	\$234,876	\$67,205	\$78,868	\$130,111	\$94,837	\$196,551	\$229,809	\$ 4,861,023	\$ 3,278,620	975,531	
# of stock issued for Inventory (Target: avg during winter months)	320	576	620	681	490	470	695	575	571	516	569	6,187	4,402	4,545	
\$ value of stock issued for Inventory (Target: avg. during winter)	\$ 65,000	\$ 180,826	\$ 134,091	\$ 140,668	\$ 100,819	\$ 57,035	\$ 141,919	\$ 317,305	\$ 130,896	\$ 175,308	\$ 275,666	\$ 2,200,233	855,456	1,086,478	
# of posters pulled from poles monthly (Target: goal to remove each month)	58	0	48	24	35	179	88	43	59	43	73	900	2,728	627	
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	3	24	17	23	10	19	23	18	20	9	16	132	88	87	
<i>Finance</i>															
Debt service coverage ratio (avg of previous 12-months)	1.25		4.39	4.05	4.25	3.77 (prelim)	2.71	3.83	2.36	2.64	3.91	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Adjusted debt service coverage ratio (avg of previous 12-months)	1.5		1.5	1.4	1.48	1.28 (prelim)	0.84	1.02	0.67	0.8	1.02	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
Days unrestricted cash on hand	>90		135	105	102	93 (prelim)	107	117	93	100	120	NA-FY basis	NA-FY basis	NA-FY basis	NA-FY basis
<i>Power Supply</i>															
McNeil generation (MWH) (100%)	per budget	0	3,607	16,707	35,538	13,989	1,360	0	22,522	29,391	30,034	228,981	273,355	192,696	
McNeil availability factor	100%	48%	64%	99%	97%	100%	98%	32%	94%	100%	84%	67%	80%		
McNeil capacity factor	per budget	0%	10%	45%	96%	39%	3.7%	0%	61%	87%	81%	52.4%	62.4%		
Winooski One generation (MWH)	per budget	2,533	2,649	4,068	3,285	1,987	2,505	3,717	2,878	2,489	3,609	25,350	24,752	21,194	
Winooski One availability factor	100%	98%	99%	99%	80%	99%	99%	99%	99%	99%	99%	98.3%	97%		
Winooski One capacity factor	per budget	46%	50%	74%	60%	37%	46%	69.8%	52.3%	50.1%	67.7%	41.7%	37%		
Gas Turbine generation (MWH)	NA	168.1	75.0	61.8	47.1	0.0	0	0	8.1	4.7	0.0	356	373	441	
Gas Turbine availability factor	100%	100%	84%	21%	0%	50%	39%	35%	36%	0%	0%	54.5%	96%		
Gas Turbine capacity factor	NA	1.0%	0.5%	0.4%	0%	0%	0%	0%	0%	0%	0%	0.2%	0.21%		
BTV solar PV production (mWh)		291	493	531	533	571	723	531	359	233	82	5,260	5,015	5,182	
Cost of power supply - gross (\$000)			\$2,366	\$2,835	\$2,983	-\$910	\$2,639	\$2,509	\$3,558	\$2,953	\$2,772	\$36,755	\$30,285	\$31,081	
Cost of power supply - net (\$000)			\$2,366	\$483	\$2,983	-\$910	\$1,995	\$1,534	\$3,558	\$927	\$2,772	\$27,487	\$22,134	\$23,388	
Average cost of power supply - gross \$/KWH			\$0.08	\$0.10	\$0.09	-\$0.03	\$0.11	\$0.10	\$0.13	\$0.11	\$0.10	\$0.11	\$0.09	\$0.10	
Average cost of power supply - net \$/KWH			\$0.09	\$0.02	\$0.09	-\$0.03	\$0.08	\$0.06	\$0.13	\$0.04	\$0.10	\$0.08	\$0.07	\$0.08	

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

Wednesday, October 25, 2023

The regular meeting of the Burlington Electric Commission was convened at 5:33 pm on Wednesday, October 25, 2023 at Burlington Electric Department at 585 Pine Street, Burlington, Vermont and virtually through Microsoft Teams.

Channel 17 was present to record this meeting.

Commissioners Lara Bonn, Jim Chagnon, Robert Herendeen, Scott Moody, and Bethany Whitaker

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

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

1. Agenda

There were no changes to the agenda.

2. September 13, 2023 Meeting Minutes

Commissioner Chagnon made a motion to approve the minutes of the September 13, 2023 Commission Meeting; the motion was seconded by Commissioner Herendeen and approved by Commissioners Chagnon, Herendeen, Moody, and Whitaker. Commissioner Bonn abstained as she was not present for the meeting.

3. Public Forum

Peter MacAusland and Alan Bjerke were present for the meeting at 585 Pine Street. Michael Ahern, Senior VP from Ever-Green Energy, Beth Anderson, newly elected Commissioner, and Heather Kuney and Renee Bourget-Place from KPMG were present at the meeting via Microsoft Teams.

Mr. Bjerke is in attendance to discuss BED's fee of \$30 for initiating electric service. Mr. Bjerke previously addressed the Commission regarding this issue and stated that, as a housing provider, he has a standing order with BED so that when the power is disconnected for any reason in one of his apartments, the power account is switched to Mr. Bjerke's existing account and this initiates a \$30 "Initial Service Fee". He also stated that with the use of smart meters, there is no need for an employee to go into the field to read the meter in order to transfer the bill, and a property owner

with a standing order means that there is no new account opening process, no credit checks and the process takes less than 5 minutes.

Mr. Bjerke stated that approximately a year ago Mr. Springer stated that BED would look into this fee and would put the fee change into BED's next tariff filing. Since that time, a new tariff was filed and Mr. Bjerke spoke with Mr. Kanarick and was told that the Department had not completed the study to see what an appropriate fee would be. Mr. Bjerke feels that the Department is not working on this issue unless the Department has new information that has not been shared with Mr. Bjerke.

Ms. Stebbins-Wheelock stated that the Department has been working on this issue for approximately 6 months and have completed most of the analysis.

Ms. Stebbins-Wheelock stated that Mr. Bjerke is correct that labor costs to transfer service are greatly reduced because we don't have to send a truck to the location. The Department's existing fee calculation was done prior to having AMI meters and is entirely based on labor and vehicle time because that's what was involved. With AMI, there is some labor involved, but there is no vehicle time unless it's an opt-out meter. However, there are new costs associated with the AMI system that we've never had to incorporate into the fee before. The Department pays annual depreciation expense on the meter data management system and AMI head-end software assets in service, annual support and maintenance expenses to two software vendors to keep those systems reliable and upgraded, plus the cost of IT resources. Ms. Stebbins-Wheelock stated that the Department still has some work to do to figure out how to properly allocate those new AMI expenses. We have reached out to other utilities across the country and here in Vermont; GMP has some ideas on this subject and we are waiting to hear back from them. The Department has an internal meeting scheduled in two weeks to continue working on the fee calculation.

Ms. Stebbins-Wheelock stated that updating the miscellaneous fees would require a requesting a tariff change to the Operating Guidelines, but these fees are independent and separate from rates for electric service that are requested through the rate case tariff process. Ms. Stebbins-Wheelock stated that this fee affects approximately 5,000 accounts each year, equating to at least \$150K in annual revenue, which is significant. BED would like to address all miscellaneous fee changes in one filing and not individual filings for each fee. Ms. Stebbins-Wheelock stated that the Department would like to file a request to update the miscellaneous service fees by the end of the calendar year; then it would be up to the PUC as to how long it would take to approve or deny the request. It is our hope that that if we file these by the end of the calendar year that we would have a PUC decision by July. The Department has also reviewed its conduit rental rates and found that these should be increased to reflect current construction and capital costs. Per our contract with the entities that rent conduit space from the Department, we need to provide 6 months' prior notice of a fee increase. Therefore the increased conduit rental rates would take effect on July 1, 2024.

4. Commissioners' Corner

Commissioner Moody stated that Commissioner Herendeen has served on the Burlington Electric Department Commission for 16 years, making him the longest serving commissioner and that this is Commissioner Herendeen's last meeting. We want to thank him for his deep insight and never-ending probing questions of the department, which has made a tremendous difference over the

years. This evening, the department dedicated the bike rack outside of 585 Pine Street to Commissioner Herendeen with a commemorative plaque. Commissioner Herendeen has biked to a majority of the meetings in all kinds of weather throughout the years, and we wanted to honor his many years of service by dedicating this bike rack to him. A huge heartfelt thanks to Commissioner Herendeen for all his years of service.

Commissioner Moody stated that Beth Anderson has been appointed as the new commissioner, and she has joined us tonight on Teams. Commissioner Anderson will be at the next commission meeting on November 8, 2023.

5. GM Update

Mr. Springer stated that we have an update on the report that was issued October 13 relative to the rate case and the Moran Frame.

There was a decision from the Public Utility Commission (PUC) approving our FY23 rate case. There have been two surcharges on our bills, one for FY23 and now for FY24. The FY23 will now be incorporated into our rates.

Mr. Springer commended the work of the BED team and also Bill Ellis, our PUC and regulatory attorney, who worked on the issue around Moran Frame rate recovery, which ultimately the Commission agreed to include and commended the efforts that were made in crafting an MOU that is fair for ratepayers relative to the Moran Frame.

BED's 2nd annual Net Zero Energy Festival was successful in being a bigger event than last year. We had a lot of great vendors and educational partners, as well as food and drink vendors, who used no fossil fuels on site.

A meeting was held today of the legislative working group on the renewable energy standard. BED participates as a voting member of this group, which looks at potential changes to the renewable energy policy at the state level.

Mr. Springer stated that BED is interested in a charter change to increase our credit line from \$5 to \$10 million to keep up with budget and inflation increases since it was last authorized. We are working on bringing an item to Board of Finance and City Council to get this item on the Town Meeting Day ballot. It would support stronger financial metrics for our credit rating. BED has not utilized its current line of credit and does not anticipate doing so. The Ordinance Committee has held two meetings on the carbon fee ordinance. The committee announced its intent to finalize any action at the next meeting and then it will be ready to move to the City Council.

Mr. Springer thanked Commission Chair Scott Moody for his comments regarding Commissioner Herendeen's service to the City of Burlington and stated that BED has a proclamation from Mayor Miro Weinberger. Mr. Springer read the proclamation, which highlighted Commissioner Herendeen's contributions, not only as a commissioner, but also in his career that he has made over

the years. The proclamation ended by designating October 25, 2023 as Robert “Bob” Herendeen Day.

6. KPMG Audit Presentation

Ms. Stebbins-Wheelock welcomed Ms. Renee Bourget-Place and Ms. Heather Kuney from KPMG. Ms. Bourget-Place is the lead partner and Ms. Kuney is the manager for BED’s audit engagement. KPMG will be presenting slides for the Commission in public session and at the appropriate time the Commission is free to move into Executive Session. At this time Ms. Stebbins-Wheelock turned the presentation over to KPMG.

Ms. Bourget-Place was the lead partner for Burlington Electric until 2017 and explained that for rotation purposes within KPMG, the firm limits the tenure of a lead partner on a particular engagement to 10 years after which time a lead partner needs to be off an engagement for 2 years. Since it was time for a new lead partner, Ms. Bourget-Place is again BED’s lead partner.

Ms. Bourget-Place explained the Executive Summary and what would be covered within the presentation.

At this time Ms. Bourget-Place turned the presentation over to Ms. Kuney.

- Outstanding matters include completion of final down-to-date procedures and a management representation letter.
- There are two uncorrected audit misstatement related to the amortization of the GO bond premium and discount and the recording of an out-of-period expense recorded in the EEU Fund.
- There were no corrected misstatement differences identified.
- Non-GAAP policies and practices: The Department has adopted certain accounting policies that, if applied to significant items or transactions would not be in accordance with U.S. generally accepted accounting principles. The Department has evaluated the effect of the application of such policies and practices on the financial statements and concluded that such effect is not material to the 2023 financial statements.
- There were no significant changes to the risk assessment and audit strategy.
- KPMG has evaluated the key factors and assumptions used to develop management’s estimates and found them to be reasonable in relation to the financial statements taken as a whole KPMG’s assessment of the risks associated with valuation estimates has not changed significantly from the prior years, as there have been no modifications in the accounting judgments made by management.
- KPMG has evaluated the key factors and assumptions used to develop management’s material estimates and found them to be reasonable in relation to the financial statements taken as a whole.
- KPMG has reviewed the significant financial statement disclosures and compared them against required disclosures, noting the presentation appears appropriate.

- There were no difficult matters or disagreements with management, and no actual or suspected fraud involving management, employees with significant roles in internal control, or where fraud results in a material misstatement in the financial statements were identified during the audit.

KPMG expects to issue an unmodified opinion on the Department's FY2023 financial statements.

Commissioner Chagnon moved to find that premature general public knowledge of KPMG's evaluation of BED's management with the Commission would clearly place the Burlington Electric Department at a substantial disadvantage per Title 1, Section 313, Subsections (a) (1) and (a) (3) of the Vermont Statutes because such information may risk contractual relationships with BED counterparties in the regular sale and purchase of energy and is considered an evaluation of BED personnel. The motion was seconded by Commissioner Herendeen and approved by all Commissioners present.

Commissioner Chagnon moved that the Commission enter into Executive Session to discuss the KPMG information with the Commission under the provisions of Title 1, Section 313, subsection (a)(1)(A) of the Vermont Statutes. This motion was seconded by Commissioner Herendeen and approved by all Commissioners present. The Commission moved into Executive Session at 6:19 p.m.

Commissioner Whitaker made a motion to exit Executive Session at 6:26 p.m. This motion was seconded by Commissioner Chagnon and approved by all Commissioners present.

Commissioner Whitaker made a motion to accept the KPMG audit report. This motion was seconded by Commissioner Chagnon and approved by all Commissioners present.

7. FY24 August Financials

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

The Department's net income for the month of August was \$1.754M compared to a budgeted net income of 1.698M, which is \$57K better than budget.

Sales to customers was worse than budget by \$275K or 2%. Other revenues, primarily EEU, were less than budget by \$76K. REC revenue was \$89K lower than budget.

Net power supply expense was favorable to budget by \$346K in August. Fuel expense was favorable to budget by \$328K because McNeil production was 39% under budget due to economics. Purchased power expense was \$18K better than budget due to low energy prices.

Other operating and maintenance expenses were unfavorable to budget by \$107K due mainly to timing of outside services expenditures.

Other income was favorable to budget by \$242K due to favorable variances in gain/loss on disposition of plant and unrealized gain on investment

For FY24 to date, net income was \$2.038M compared to a budgeted net income of \$1.385M or \$653K better than budget.

Capital spending for August was \$1.6M or 14% of the budget for the year.

Operating cash at the end of August was \$4.5M compared to a budget of \$6.1M. Ms. Stebbins-Wheelock stated that operating cash should improve in September due to receipt of the annual \$3M general obligation bond funding and the electric bucket truck grant.

The debt service coverage ratio is 4.05, the adjusted debt service coverage ratio is 1.40, and the days cash on hand is 105.

7. District Heat Update

Mr. Springer stated that joining this presentation is Mr. Michael Ahern, our partner at Ever-Green Energy, who has been assisting us at every step to develop of the feasibility work for this project.

Mr. Springer began the PowerPoint presentation showing the GHG emissions that show the thermal and ground transportation sector emissions came down during the pandemic and then showed a moderate rebound. This graph also shows that the commercial sector is going in the wrong direction. Mr. Springer stated that, when we think about district energy and the opportunity, we think quite a bit about the commercial sector and what we might be able to do to bend the curve down.

In the most recent Energy Action Network (EAN) report, it's worth noting that fossil fuel combustion was responsible for between 81-91% of the anthropogenic human-caused greenhouse gas emissions over the prior decade. According to the IPCC, the dominant driver is the burning of fossil fuels. The EAN report also shows the difference between biogenic and non-biogenic carbon. One being something that is above ground and part of the cycle already and another being something that is dug up and introduced into the atmosphere. We have heard a lot of public discussions about how we count wood in terms of carbon, and BED doesn't get to decide that.

Mr. Springer stated that it's not BED's decision. Rather, we follow guidance from the IPCC, the EPA, and the State of Vermont, where the emissions from cutting a tree, harvesting a tree, and sequestration and storage benefits from growing a tree are captured in the same sector, which is the land use sector.

Mr. Springer stated that the 2023 State of Vermont emissions inventory/emissions methodologies include a set of factors that cover changes within the land use sector. They also include emissions relative to bioenergy, but do not count “at the stack” emissions because those emissions are for something like a biomass plant.

The Innovative Natural Resource Solutions report points to the significance of the lands from where McNeil receives wood between 2007 and 2020. Obtaining wood for BED operations is not the only activity on those lands. Rather, we received wood that was left over from other higher value operations. The net change in those lands, upstate New York, and Vermont, is a good thing – more carbon stored (over 24 million tons) accounts for all the harvesting, growth, and sequestration. Mr. Springer stated that this is not BED claiming that value, but that's what the land use change is in those areas, which is a positive result. If we were seeing significant deforestation in those areas, that number would look quite different, and we would be concerned.

The National Renewable Energy Lab Department of Energy harmonized 3,000 different lifecycle studies over a period of years. The next graphs show coal, oil, and natural gas with relatively high amounts of CO₂ required to produce kWh of energy.

The IPCC 2022 report on climate mitigation, that was part of its 6th and most recent assessment report, included bioelectricity and bioelectricity with carbon capture as 2030 mitigation options, indicating the belief that this technology still has a role to play.

Mr. Springer reiterated that McNeil, for the majority of its fuel, takes in wood residues, including the tops and limbs, disease damaged trees, and remaining low value wood from higher value operations.

The next graph looks at McNeil's wood supply over a period of years. In 2022, roughly 88.5% came from the wood residues and the leftover wood from those types of operations, 10% sawmill residue, 1.5% waste wood yard, and less than 0.5% from the low value round wood that we keep on site for fuel security. It's important to note that our appendix to our woodchip contracts states very clearly that we will not accept wood from a site that's being harvested solely for energy production.

An important issue is the carbon lag between the emissions at the stack and the regrowth of trees. The Manomet report, which was not very favorable for biomass generally, issued in Massachusetts is the foundation of many concerns that have been raised about biomass. This report indicated that using the residues, those types of products that we're using in McNeil, is far more favorable from a climate standpoint than natural gas, electric, or other fossil fuel resources, and that you can have approximately 70% of the carbon loss repaid within a decade, which is a far faster period than the 100 years or longer about which people talk.

The next piece is District Energy. What is District Energy? In the Burlington context, it's an efficient, underground distribution system to connect multiple renewable thermal sources to customer buildings. The United Nations Environment Programme calls district energy “a secret weapon for

climate action and human health” and stated that “forward-looking cities are connecting district energy with efficient buildings, waste and renewables to create integrated urban systems and achieve resilience and circularity.”

Mr. Springer stated we are recovering the waste heat at McNeil, the steam extraction from McNeil, and a supplementary electric boiler at McNeil that can run. This means that three different energy sources will provide efficient underground steam distribution system up to UVM Medical Center with a condensate return line that can potentially connect to other customers as well.

What does District Energy mean for Burlington?

This will improve McNeil’s efficiency by 10%. We will use local renewable thermal resources instead of fossil gas. It will reduce over 220K MMBTU of natural gas usage every year. It will cut commercial sector natural gas use by 16% in Burlington, it will cut Burlington’s carbon dioxide emissions by approximately 13K tons annually.

Mr. Springer stated that we have gone through three phases of feasibility. We have a grant from Senator Leahy of over \$5M to support some of the capital costs, we have a district energy nonprofit 501C3 run by Ever-Green that was supported by the City Council in 2022 that would finance and operate the project and is in a partnership that includes BED, the City, UVM Medical Center, VGS, and Ever-Green.

Mr. Springer reviewed the key points of the analysis, explaining the UVM Medical Center’s energy systems, their uses, and the key financial terms. These financial terms include capital investment financed through the 501C3. There is no taxpayer, no rate payer financing. There are no general fund dollars being used, and BED’s role would be similar to VGS, which means BED would provide the incentives.

BED will use Tier 3 credits under the Renewable Energy Standard. VGS will use Clean Heat credits under the recently passed Affordable Heat Act. Burlington District Energy will manage the construction and operation of the project. UVM Medical Center will purchase the renewable steam and receive the renewable attributes.

Mr. Springer informed the Commission of the key operational terms, and explained the route that would be constructed to the UVM Medical Center.

The Commission asked questions on many of these items brought forth this evening, which Mr. Springer answered to their satisfaction.

At this time, the Commission was prepared to vote on the term sheets related to district energy.

Commissioner Whitaker made a motion to recommend to the City Council approval of the term sheets related to district energy, specifically the Tier 3 term sheet and the Thermal term sheet between BED and the Burlington District Energy System non-profit. The motion was seconded by Commissioner Chagnon and approved by all Commissioners present.

8. Proposal to Enter REC Sales for a Rolling Five (5) Year Period

Mr. Springer stated that the Commission has granted this authorization in the past, and it's been a while since 2017 when the Commission has granted this authorization. Mr. Springer stated that to publicly divulge strategy around REC sales would put the Department at a substantial competitive disadvantage in the buying and selling of RECs and asked that this item be considered in Executive Session. Mr. Springer stated that, if the Commission would like to act on this proposal at this meeting, the Commission would come out of Executive Session and publicly vote on the proposal.

Commissioner Chagnon moved to find that premature general public knowledge of the Commission's discussion regarding the proposal to enter into REC sales for a rolling 5-year period would clearly place the Burlington Electric Department at a substantial disadvantage per Title 1, Section 313 (a)(1) of the Vermont Statutes. The motion was seconded by Commissioner Herendeen and approved by all Commissioners present.

Commissioner Chagnon moved that the Commission enter into executive session at 7:41 p.m. with BED staff to discuss the proposal to enter into REC sales for a rolling 5-year period under the provisions of Title 1, Section 313(a) (1) (A) of the Vermont Statutes. The motion was seconded by Commissioner Herendeen and approved by all Commissioners present.

Commissioner Whitaker moved to exit Executive Session at 7:55 p.m. The motion was seconded by Commissioner Herendeen and approved by all Commissioners present.

Commissioner Herendeen moved that the Commission delegate to the General Manager authorization to enter into REC sales for a 5-year period to include the RECs associated with the current calendar year and the following four years, and to report to the Commission with semi-annual reports of REC sales. The motion was seconded by Commissioner Bonn and approved by all Commissioners present.

9. Commissioners' Check-In

Commissioner Moody took this opportunity to again thank Commissioner Herendeen for all his commitment and work over the years.

Commissioner Moody also welcomed our new Commissioner, Beth Anderson, and stated that we all look forward to working with her.

Commissioner Herendeen stated that the Burlington Electric Department is so competent and so inventive that there is not really a lot to do as a commissioner and his one regret was that he didn't generate more ideas but has enjoyed his 16 years as a Commissioner.

Commissioner Herendeen 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 8:00 p.m.

Attest:



Laurie Lemieux, Board Clerk



*FY 2024
Financial Review
September*

October 30, 2023

Burlington Electric Department Financial Review

FY 2024

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FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of SEPTEMBER FY24

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	53,110	4,488	4,704	216	14,601	14,609	8
Other Revenues	3,775	299	224	(75)	941	585	(355)
Power Supply Revenues	8,244	0	0	0	2,440	2,351	(89)
Total Operating Revenues	65,130	4,787	4,928	141	17,982	17,545	(436)
Power Supply Expense (Net)	33,880	2,819	2,366	454	9,272	8,183	1,088
Operating Expense	22,846	1,795	1,901	(106)	5,649	5,437	213
Depreciation & Amortization	6,630	552	542	11	1,657	1,586	71
Taxes	3,369	278	285	(8)	858	867	(9)
Sub-Total Expenses	66,725	5,443	5,094	350	17,437	16,073	1,364
Operating Income	(1,595)	(657)	(166)	491	545	1,473	928
Other Income & Deductions	5,044	443	1,049	606	1,160	1,970	809
Interest Expense	3,166	267	344	(76)	802	865	(63)
Net Income (Loss)	283	(482)	539	1,022	903	2,578	1,674

Year-to-Date Results:

- **Sales to Customers** up \$8,300 (within budget). Residential Sales down \$7,400 and Non-Residential Sales up \$14,500.
- **Other Revenues** down \$355,000 (37.8%)
 - a. DSM billable (customer driven).
- **Power Supply Revenues** down \$89,000 (4%)
 - a. McNeil REC revenue of \$1,538,000 compared to a budget of \$1,447,000.
 - b. Wind REC revenue of \$593,000 compared to a budget of \$769,000.
 - c. Hydro REC revenue of \$221,000 compared to a budget of \$224,000.
- **Power Supply Expenses (Net)** down \$1,088,000 (12%)
 - a. Purchased Power down \$552,000.
 - b. Transmission down, \$222,000.
 - c. Fuel down \$315,000.
- **Taxes**
 - a. Actual Payment in Lieu of Tax (PILOT) will be \$27,000 higher than budget assumption for the year.
- **Operating Expenses** down \$213,000 (3.8%)
 - a. Various operating expense items are less than budget including labor & overtime (\$81,200), DSM (rebates & outside services) (\$186,000), materials & supplies (\$76,000) and RPS Compliance (\$64,000).
- **Other Income & Deductions** higher \$809,000 (70%)
 - a. Received grant for EV budget truck, \$560,000.
 - b. Actual includes unrealized gain on investment \$162,200.
 - c. Retirements budgeted in August (\$135,000) have not happened.
 - d. Timing of jobbing unfavorable \$79,000.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of SEPTEMBER FY24

Capital Spending – September YTD (\$000s)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$2,038	\$833	\$290	14%
Other	415	72	21	5%
Distribution	7,166	1,085	892	12%
General	1,343	370	265	20%
Total	\$10,963	\$2,360	\$1,467	13%

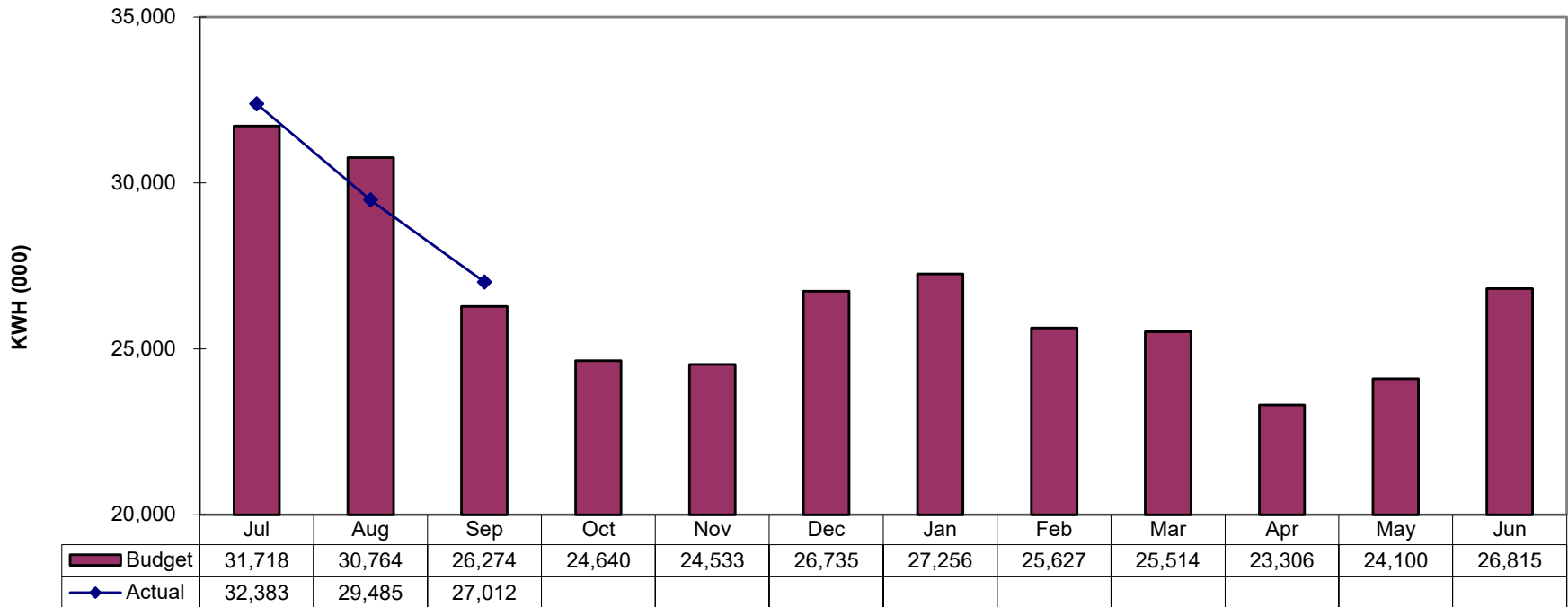
- (1) **Production** – Timing of turbine control system upgrade at McNeil plant, \$123,300 and various projects at Winooski One Hydro, \$233,100.
- (2) **Other** – Timing; actual includes spending on Public Level 2 EV chargers and Distributed Energy Resources.
- (3) **Distribution** – Timing of various projects.
- (4) **General** – Actual includes full cost of the all-electric bucket truck less state grant \$560,000.

As of September 30, 2023 Operating Cash and Investments	
Operating Funds	\$7,918,300
Operating Fund – CDs	\$975,200
Total Operating Cash	\$8,893,500

Credit Rating Factors – September 2023				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	4.39	3.89
Adjusted Debt Service Coverage Ratio	1.50	1.10	1.45	1.09
Cash Coverage - Days Cash on Hand	90	30	135	112

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

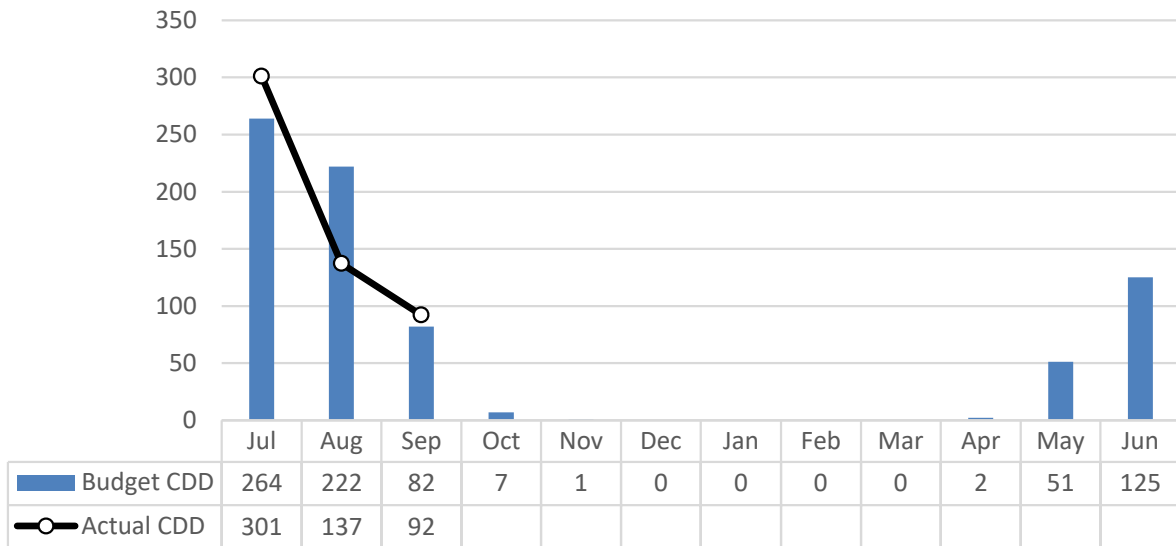
**Total Sales to Customers - KWH
Monthly**



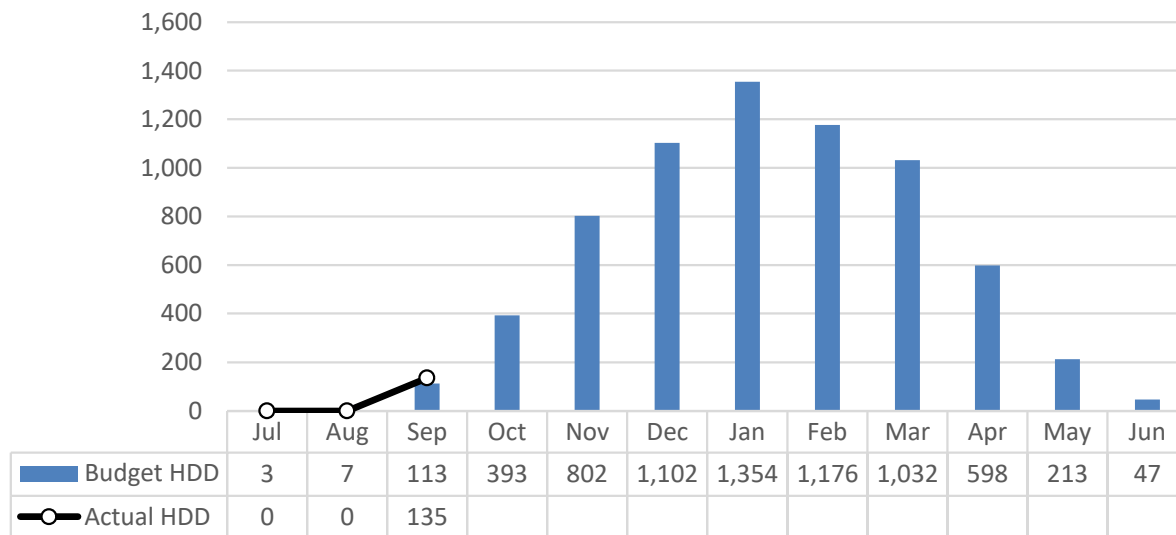
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	31,718	62,482	88,756	113,397	137,930	164,665	191,921	217,547	243,061	266,367	290,468	317,283
Actual	32,383	61,868	88,880									

FY 2024

Cooling Degree Days (CDD)



Heating Degree Days (HDD)

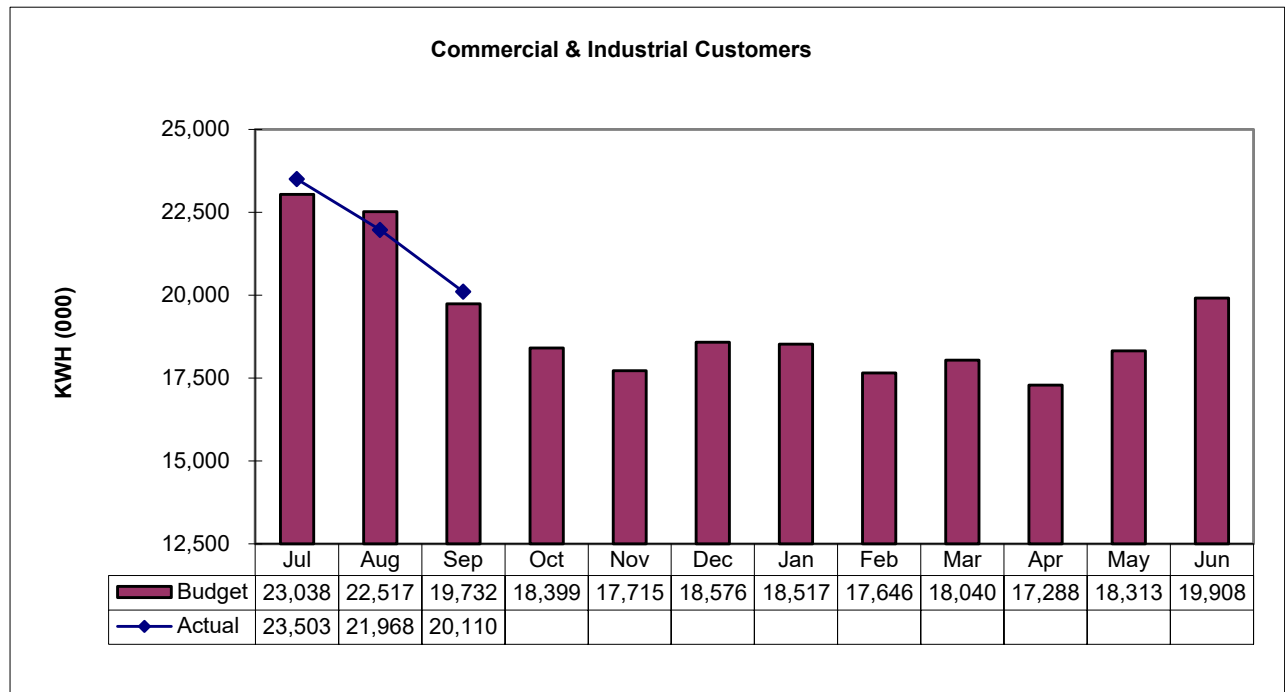
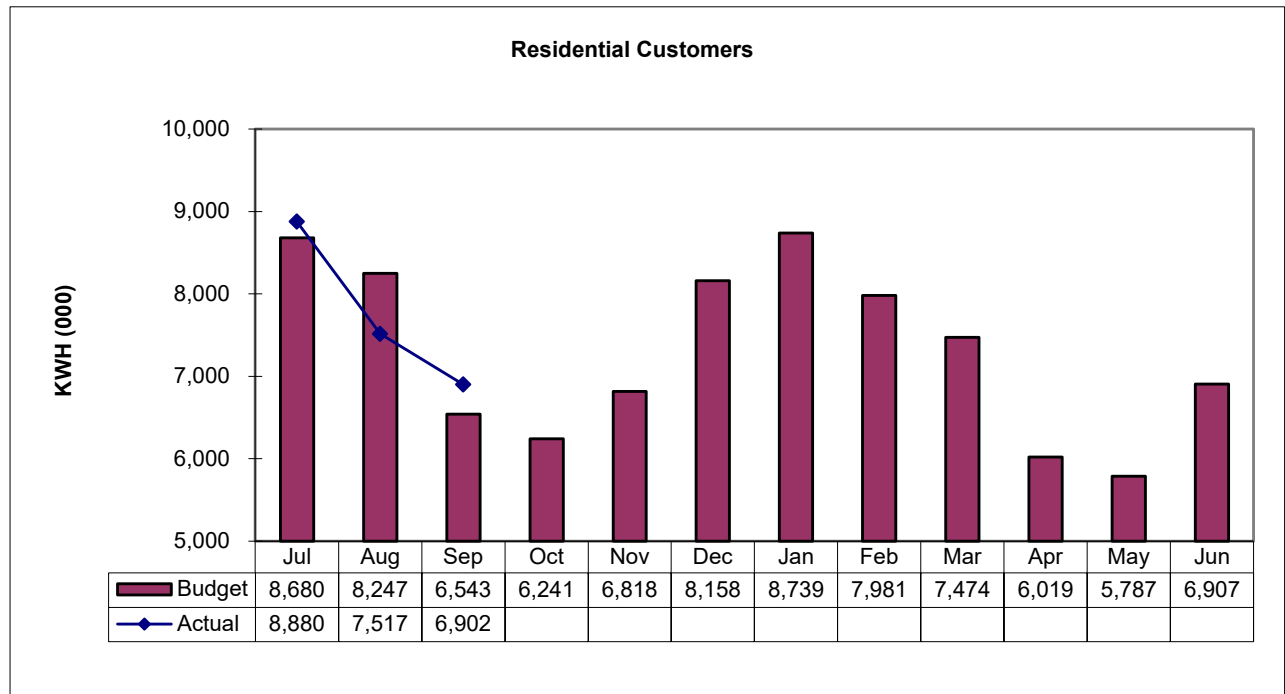


Average Monthly Temperature

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	73	72	64	52	39	29	22	23	32	45	59	67
Actual	74	69	57									

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
September - FY 2024

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
Expenses:							
Fuel (p. 7)	\$477	\$194	\$283	(1)	\$2,435	\$2,119	\$315 (1)
Purchased Power (p.11)	1,512	1,466	46	(2)	4,319	3,768	552 (2)
Purchased Power Adjustment (p 11)	43	43	(0)		130	130	(0)
Transmission Fees - ISO	680	596	84	(3)	2,033	1,870	163 (3)
Transmission Fees - Velco	53	33	20	(4)	179	165	14 (4)
Transmission Fees - Other	55	34	21	(5)	177	131	45 (5)
Total Expenses	<u>2,819</u>	<u>2,366</u>	<u>454</u>		<u>9,272</u>	<u>8,183</u>	<u>1,088</u>
Revenues:							
Renewable Energy Certificates - McNeil	0	0	0		1,447	1,538	91
Renewable Energy Certificates - Wind	0	0	0		769	593	(176)
Renewable Energy Certificates - Hydro	0	0	0		224	221	(3)
Renewable Energy Certificates - Other	0	0	0		0	0	0
Total Revenues	<u>0</u>	<u>0</u>	<u>0</u>		<u>2,440</u>	<u>2,351</u>	<u>(89)</u> (6)
Net Power Supply Costs	<u>\$2,819</u>	<u>\$2,366</u>	<u>\$454</u>		<u>\$6,832</u>	<u>\$5,832</u>	<u>\$1,000</u>
Load (MWh)	26,993	28,509	1,516		91,090	91,485	395
\$/MWh	\$104.45	\$82.98	(\$21.47)		\$75.00	\$63.75	(\$11.25)

Current Month:

- (1) See detail on page 7.
(2) See detail on page 11.
(3) August Peak load under Budget.
(4) VELCO Common charges under Budget.
(5) NYPA NYISO Transmission charges under Budget.

YTD:

- (1) See detail on page 7.
(2) See detail on page 11.
(3) ISO-NE Peak Load under Budget.
(4) VELCO Transmission charges under Budget.
(5) NYPA NYISO Transmission charges under Budget.
(6) REC Sales projected to be 11% under Budget due to lower McNeil and Wind production in calendar year 2023.

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

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
<u>FUEL:</u>							
McNeil:							
Fuel Consumed	290	95	195	(1)	1,641	1,440	201 (1)
Swanton Yard	25	11	13	(1)	143	171	(29) (1)
Train Deliveries	52	17	35	(1)	301	256	45 (1)
Labor & Other Expenses	92	37	55	(2)	292	173	119 (2)
Total McNeil Fuel	<u>459</u>	<u>160</u>	<u>299</u>		<u>2,376</u>	<u>2,040</u>	<u>336</u>
Gas Turbine	17	33	(16)	(3)	59	79	(20) (3)
Total Fuel	<u>477</u>	<u>194</u>	<u>283</u>		<u>2,435</u>	<u>2,119</u>	<u>315</u>

Current Month:

(1) McNeil production 69% under Budget. Wood Price per Ton 2% over Budget. (p. 9)

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

(3) GT production (75 MWh) 111% over Budget.

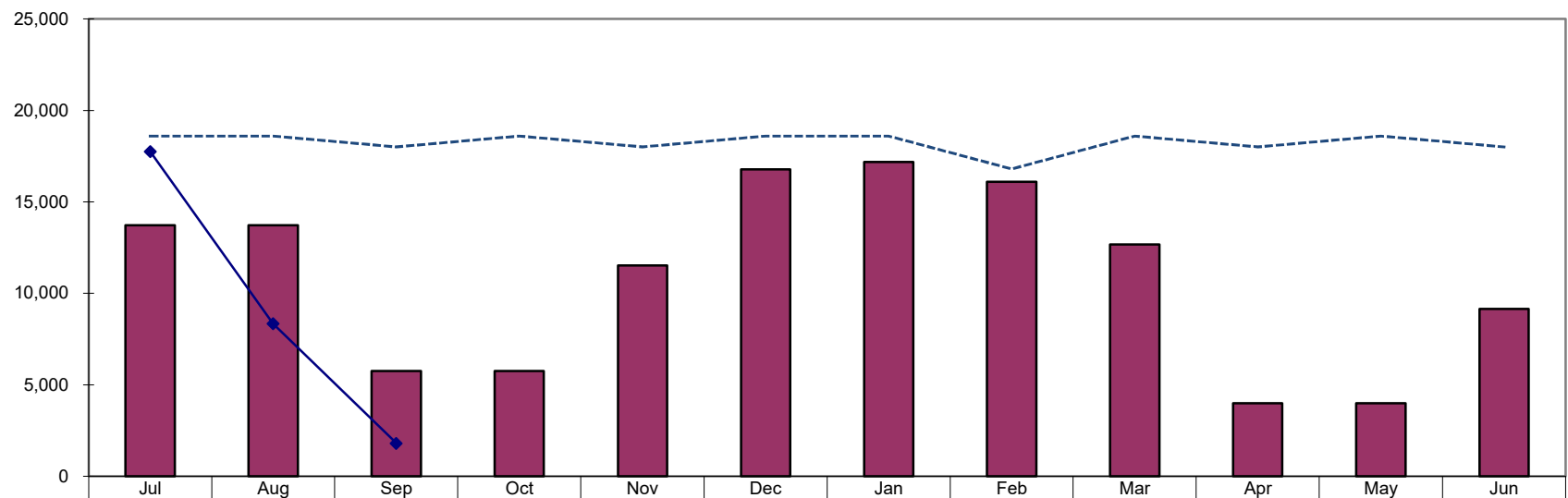
YTD:

(1) McNeil production 16% under Budget. Wood Price per Ton 3% over Budget. (p. 9)

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

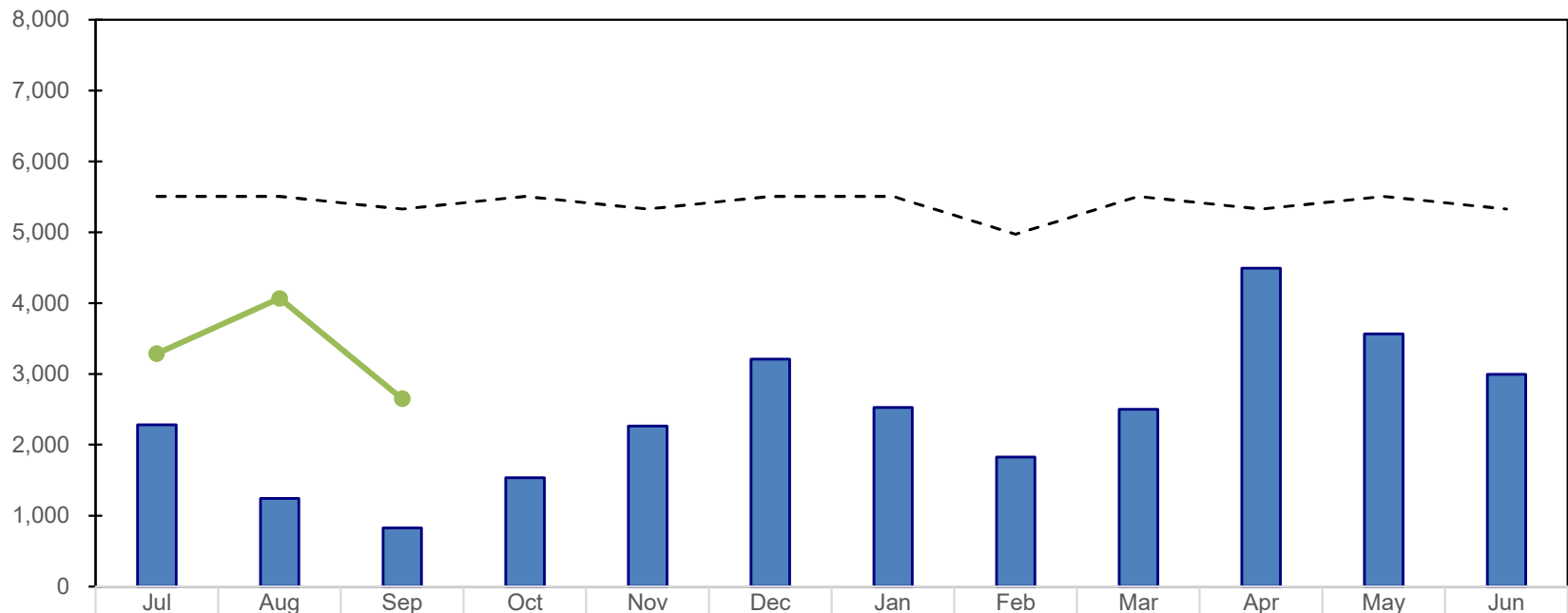
(3) GT production (180 MWh) 50% over Budget.

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



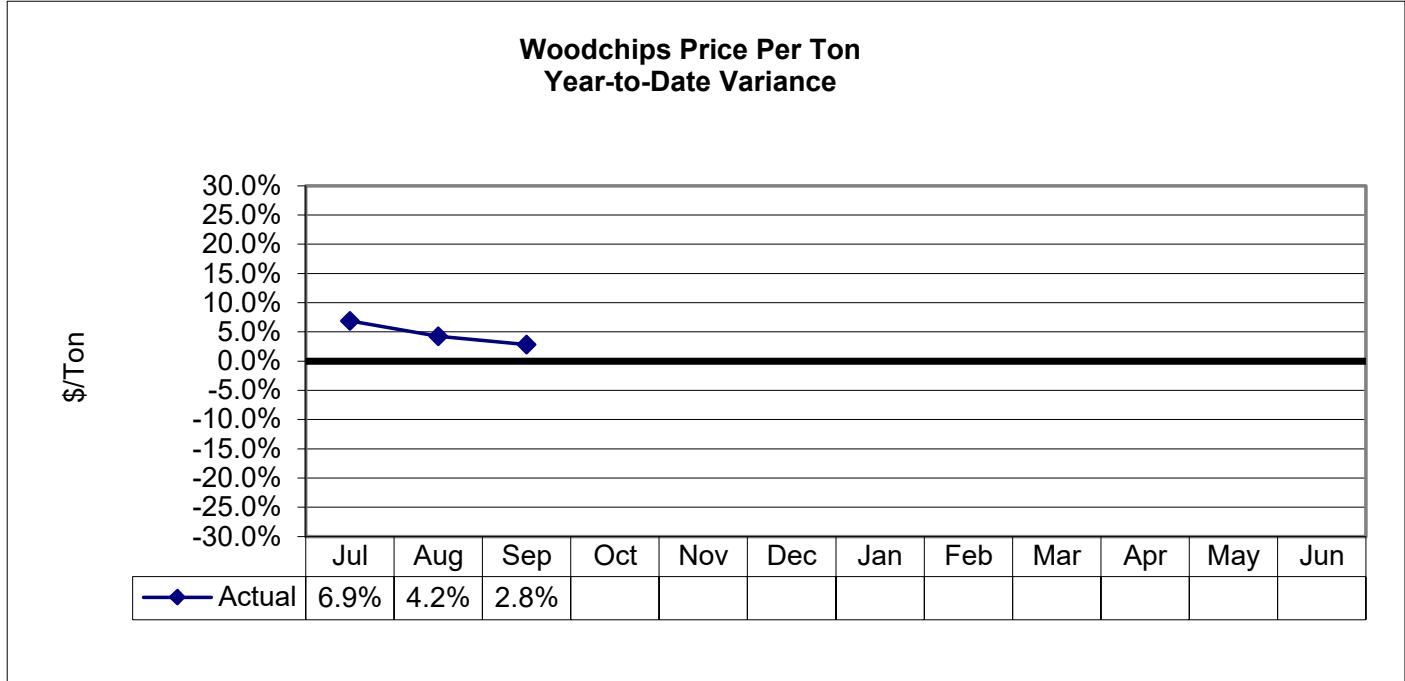
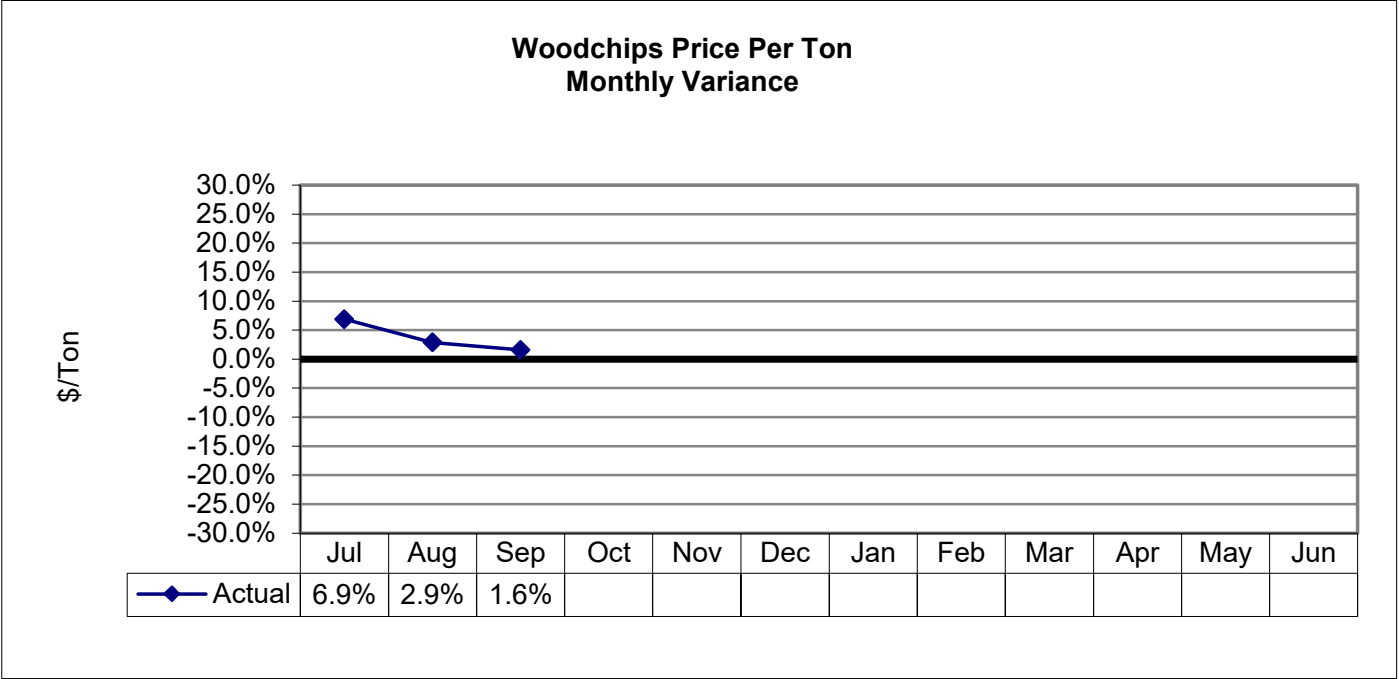
 Budget	13,721	13,721	5,764	5,764	11,529	16,785	17,185	16,113	12,671	3,993	3,993	9,152
◆ Actual	17,749	8,344	1,804									
 Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

**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									
- - - 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
September - FY 2024**

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
<u>PURCHASED POWER:</u>							
Non-Energy (capacity)	111	85	26	(1)	333	257	76 (1)
Energy:							
Georgia Mountain Wind	248	112	136	(2)	662	524	138 (2)
Hancock Wind	202	182	20	(3)	468	440	27 (3)
VT Wind	153	76	78	(4)	401	327	74 (4)
Hydro Quebec	283	283	0		869	869	0
Great River Hydro	170	170	0		523	521	1
In City Solar Generators	80	84	(3)		295	259	36 (5)
NYPA	6	7	(1)		18	21	(3)
ISO Exchange	185	344	(158)	(5)	467	249	218 (6)
ISO Exchange Adjustment	43	43	(0)	(**)	130	130	(0) (**)
Velco Exchange	0	(0)	0		0	(1)	1
Total Energy	1,371	1,300	72		3,833	3,340	493
Ancillary Charges	(72)	(25)	(47)	(6)	(201)	49	(250) (7)
Miscellaneous	144	149	(5)		485	251	233 (8)
Total Purchased Power Expense	<u>1,555</u>	<u>1,509</u>	<u>46</u>		<u>4,449</u>	<u>3,898</u>	<u>552</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 55% under Budget.
- (3) Production 38% under Budget. \$57k to be moved from Hancock to ISO-NE Exchange in October for September.
- (4) Production 51% under Budget.
- (5) Production (Wind (48%) and McNeil (69%)) under budget.
- (6) Forward Reserves provided by GT below Budget.

YTD:

- (1) Mystic Costs under Budget.
- (2) Production 21% under Budget.
- (3) Production 38% under Budget. \$57k to be moved from Hancock to ISO-NE Exchange in October for September.
- (4) Production 18% under Budget.
- (5) Production under Budget.
- (6) Energy prices under Budget. Winooski One Production (130%) over budget.
- (7) Forward Reserves provided by GT under Budget.
- (8) Timing: REC Expense reported quarterly, budgeted monthly.

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

	Budget	Actual	Variance	% Variance	*
Labor-Regular	2,251,162	2,178,568	72,594	3%	
Labor-Overtime	121,685	115,425	6,260	5%	
Labor-Temporary	23,400	21,044	2,356	10%	
Labor-Overhead	858,491	865,915	(7,424)	1%	a
Outside Services	762,014	817,943	(55,929)	7%	
DSM (rebates & outside services)	507,783	321,783	186,000	37%	b
Materials & Supplies	255,288	179,458	75,830	30%	c
Insurance	191,418	188,105	3,313	2%	
A & G Clearing	(186,335)	(106,545)	(79,790)	43%	d
Other - RPS Compliance	226,862	162,502	64,360	28%	
Other	637,916	692,343	(54,427)	9%	e
Operating & Maintenance Expense	5,649,683	5,436,541	213,142	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 (\$31,800), Safety/Environmental (\$17,300), & McNeil Plant (\$5,300).

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

(e) Actual includes annual amortization expense associated with the Moran Frame payment, \$29,700. The annual amount is \$118,839.

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

Labor - Overhead	Budget	(000's)		%	
		Actual	Variance		
Pension	\$454	\$421	\$33	7%	(a)
Medical Insurance	400	439	(39)	-10%	(b)
Social Security Taxes	261	236	25	10%	(a)
Workers Compensation Ins.	90	85	5	5%	(b)
Dental Insurance	22	21	1	3%	(b)
Life Insurance	5	5	0	1%	(b)
	\$1,231	\$1,207	\$24	2%	

Rates Table:		Budget
Pension		13.33%
Social Security		7.65%

(a) Function of labor cost.

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

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

Net Income
FY 2024 - September (\$000)

		Current Month			Year - To - Date		
	Ref	Budget	Actual	Variance	Budget	Actual	Variance
Operating Revenues							
Sales to Customers	p.3	4,488	4,704	216	14,601	14,609	8
Other Revenues		299	224	(75) (a)	941	585	(355) (a)
Power Supply Revenues	p.6	0	0	0	2,440	2,351	(89)
Total Operating Revenues		<u>4,787</u>	<u>4,928</u>	<u>141</u>	<u>17,982</u>	<u>17,545</u>	<u>(436)</u>
Operating Expenses							
Fuel	p.6	477	194	283	2,435	2,119	316
Purchased Power	p.6	1,555	1,509	45	4,449	3,898	551
Transmission	p.6	788	663	125	2,388	2,166	222
Operating and Maintenance	p.12	1,795	1,901	(106)	5,649	5,437	213
Depreciation & Amortization		552	542	11	1,657	1,586	71
Revenue Taxes		48	51	(4)	167	164	4
Property Taxes Winooski One		42	42	(0)	126	127	(1)
Payment In Lieu of Taxes		188	192	(4) (b)	564	577	(12) (b)
Total Operating Expenses		<u>5,444</u>	<u>5,094</u>	<u>350</u>	<u>17,437</u>	<u>16,073</u>	<u>1,364</u>
Other Income and Deductions							
Interest/Investment Income		43	52	9	125	143	18
Dividends		367	431	64 (c)	1,100	1,164	64
Customer Contributions/Grant Proceeds		31	568	537 (d)	51	580	529 (c)
Gain/(Loss) on Disp of Plant		0	0	0	(135)	(0)	135 (d)
Other		2	(1)	(3)	19	83	64 (e)
Total Other Income & Deductions		<u>443</u>	<u>1,049</u>	<u>606</u>	<u>1,160</u>	<u>1,970</u>	<u>809</u>
Interest Expense		267	344	(76)	802	865	(63) (g)
Net Income		<u>(482)</u>	<u>539</u>	<u>1,022</u>	<u>903</u>	<u>2,578</u>	<u>1,674</u>

Current Month:

- (a) Energy Efficiency Program cost reimbursement was lower than planned, \$73,200.
(b) Actual Payment in Lieu of Tax (PILOT) is higher than budget assumption by \$26,960 for the year.
(c) Actual includes September true-up.
(d) Budget assumed customer contributions for Champlain Parkway, \$11,000 and overhead/underground billable, \$20,000.
Actual includes billable for overhead/underground projects, \$2,700 and grant proceeds for EV bucket truck, \$560,000.

Year - To - Date:

- (a) Energy Efficiency Program cost reimbursement was higher than planned, \$340,000.
(b) See current month.
(c) Budget assumed customer contributions for Champlain Parkway, \$11,000 and overhead/underground billable, \$40,000.
Actual includes billable for overhead/underground projects, \$11,000 and grant proceeds for EV bucket truck, \$560,000.
(d) Timing. Budgeted in August, December, February & June.
(e) Timing of jobbing unfavorable, \$79,000. Offset by unrealized gain on investment, \$162,200.

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	September YTD Actual	Variance
McNeil (BED 50% Share)				
Turbine Control System Upgrade/Insurance (314)	250	125	2	123
Routine Station Improvements ¹	186	74	7	68
Wood Handling Front End Loader (316)	183	183	175	8
Fuel Oil Tank Replacement Containment Area (312)	125			0
ESP Transformer Rectifier Controls Upgrade (312)	125	25	0	25
B-Belt Replacement	72		0	(0)
Freight Elevator Geared Equip & Controls (311)	40			0
Replacement Rail Cars (392)	38			0
Polisher Beads (312)	30			0
Augers Replaced (312)	30			0
McNeil Replacement Pickup Truck (all electric)	28			0
Cooling Tower Timber Replacement (314)	25			0
Safety Valve Replacements (312)	25	5		5
Belt Fire Suppression/Insurance (312)	20			0
Bottom Ash Conveyor	17			0
Ash Conveyor Rebuild (312)	12			0
Air Dryer (312)	12			0
Analyzer Upgrades for Chemical Treatment (312)	9			0
Station Tools & Tool Boxes (312)	7	4		4
End of Life Handheld Radio Replacement (316)	7	4		4
Continuous Emissions Monitoring Repl/Upgrade			60	(60) (a)
Other	20	4	0	4 (b)
Total McNeil Plant	1,262	424	244	180
 (a) Prior year project.				
(b) Budget includes rigging equipment, gas burner upgrade, chemical pump replacement, energy efficiency improvements, furniture & equipment cameras.				
Hydro Production	318	239	5	233
Gas Turbine	458	171	40	131
Total Production Plant	2,038	833	290	543
Other				
Direct Current Fast Charger (new locations)	281	42	1	41
EV Charger Installation (Level 2)	108	22		22
Policy & Planning Research & Dev	26	8	1	7
Public Level 2 EV Charges			12	(12)
Distributed Energy Resources			7	(7)
Total Other	415	72	21	51

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	September YTD Actual	Variance
Distribution Plant-General				
Aerial				
Pole Inspection & Replacement	161	24	8	17
Pole P2296 Replacement Flynn Avenue	57			0
Rebuild Austin Dr	68	34	23	11
Replace 2L5 Circuit from P2349-913S	935			0
Rock Point Bridge Guy Wire Relocation (Rock Pt)	40			0
Sunset Cliff Rebuild	53	40	9	31
Total Aerial	1,314	98	39	58
Underground				
Install Cables on St Paul St (Bank to Cherry)	86			0
Main St Great Streets	0		4	(4)
Rebuild Ethan Allen Pkwy to 3 Phase	683	512	292	220
Rebuild Summit Ridge	332	133	0	132
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			0
Switch 817S/912S/913S (Main St Reservoir)	147			0
Total Underground	2,607	645	297	348
Customer Driven/City Projects				
Champlain Parkway-Billable	269	13	250	(236)
Champlain Parkway (CAFC)	(229)	(11)		(11)
Main Street Great Streets			4	(4)
Total Underground	40	2	254	(252)
Other				
ADMS Phase 1-SCADA upgrade (Repl SCADA Sys)	724	14		14
Communication Equipment Emergency Repair	29		3	(3)
Distribution Transformers	631	220	9	211
SCADA Network Switches Replacement	107		8	(8)
SCADA Servers PC's and Monitors	229			0
SCADA Video Display	721		1	(1)
Other			8	(8)
Total Other	2,441	234	29	205
Total Distribution Plant-General	6,403	979	619	360

**Burlington Electric Department
Capital Projects - FY24**

	\$000			
	Full Year Budget	Budget	September YTD Actual	Variance
Distribution Plant - Blanket				
Aerial	171	24	33	(9)
Aerial (CAFC)	(65)	(13)	(8)	(5)
Underground	371	85	60	25
Underground (CAFC)	(135)	(27)	(3)	(24)
Meters	105	6	56	(50)
Lighting	228	17	125	(108)
Tools & Equipment - Distribution/Technicians	37	7	3	4
Replaces Failed SCADA Field Equipment	23			0
Substation Maintenance	17			0
Gas Detectors	5			0
Pulling Rope Amsteel Blue	7	7	6	1
Total Distribution Plant - Blanket	763	106	273	(167)
 Total Distribution Plant	 7,166	 1,085	 892	 193
General Plant				
Computer Equipment/Software	902	215	82	133 (a)
Vehicle Replacement	259		741	(741) (b)
EV Grant			(560)	560 (b)
Buildings & Grounds	176	148	1	146 (c)
AED Purchase	7	7		7
Total General Plant	1,343	370	265	105

(a) Budget includes replacement iPads for line crew and Pole Mount Routers. Actual includes IT Forward, \$64,000 and other projects (AS400/CIS upgrade & Pole Mount Routers).

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

(c) Timing; budget includes new gate motor controller, AC replacement GT Computer rooms and Dispatch Center.

Sub-Total Plant	<u>\$10,962</u>	<u>\$2,360</u>	<u>\$1,467</u>	<u>\$893</u>
 Add: CAFC* reclass to "Other Income"	 428	 51	 571	 (519)
Total Plant	<u><u>\$11,391</u></u>	<u><u>\$2,411</u></u>	<u><u>\$2,038</u></u>	<u><u>\$373</u></u>

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2024 Monthly Ending Balance

