

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

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

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

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

Conference ID: 599 269 520#

AGENDA
Regular Meeting of the Board of Electric Commissioners
Wednesday, September 8, 2021- 5:30 p.m.

- | | |
|---|---------------|
| 1. Agenda | 5:30 (5 min.) |
| 2. Minutes of the August 11, 2021 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 (15min.) |
| 6. Commissioners' Check-In | 6:05 (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: 599 269 520#

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

TABLE OF CONTENTS
(for 09/08/21 meeting)

***** FYI *****

- Minutes of the August 11, 2021 Meeting
- August Monthly Report
- Dashboard
- FY 21 June Financials
- FY 22 July Financials

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



MEMORANDUM

To: Burlington Board of Electric Commissioners
From: Darren Springer, General Manager
Date: September 2, 2021
Subject: **August 2021 Highlights of Department Activities**

General Manager

- Net Zero Energy Revenue Bond – BED and the Mayor announced the Net Zero Energy Revenue Bond proposal on Sept. 1 at a press conference - <https://www.burlingtonelectric.com/mayor-weinberger-and-burlington-electric-department-propose-net-zero-energy-revenue-bond/>. The Board of Finance and City Council will consider the item on 9/13, and if approved it would go on the November ballot. BED is planning to visit with all the NPAs to share information about the revenue bond proposal. At our September Commission meeting we'll share updated slides and material on the revenue bond during the GM report.
- Moody's Credit Rating Affirmed – On August 16th, 2021, Moody's Investors Service affirmed BED's A3 rating with a stable outlook, on outstanding revenue bonds. This is a welcome development as we announce the new Net Zero Energy Revenue Bond proposal. Moody's cited the action by BED to adjust rates this year as a key factor in supporting affirmation. <https://www.moody.com/research/Moodys-affirms-A3-rating-on-Burlington-City-of-VT-Electric-PR-907245997>
- District Energy – We have not had as much progress with district energy over the last months, and discussions over term sheets between the Joint Owners, VGS and Ever-Green have required more intensive work. We hope to move through this process in the near future and have more to report next month.
- Act 151 – The PUC approved BED's proposal for Act 151, including continuing our Green Stimulus level incentives for heat pumps and EVs through at least the end of 2023. We also will be offering new programs, such as funding to support geothermal test wells.
- Customer Yard Signs – BED has a mock-up to share at the September meeting during the GM report of new yard signs that customers who participate in our incentive programs could display, to help generate more attention on our Net Zero Energy efforts.

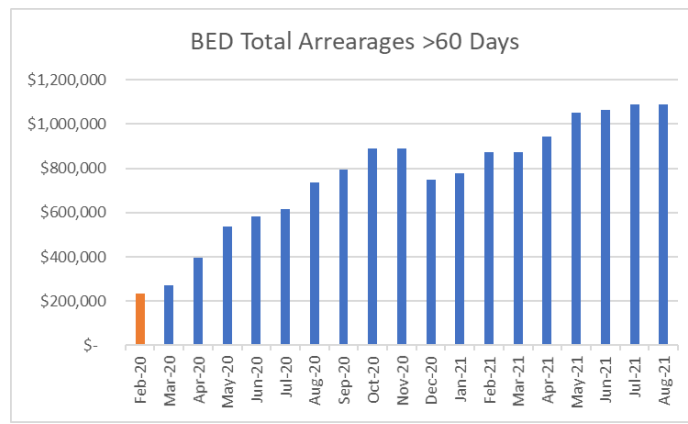
Center for Innovation - Emily Stebbins-Wheelock

- Recruiting for Director of Information Technology position; acting supervisor of Information Services and Finance & Accounting staff.
- Launched new employee engagement committee to advise on innovation and engagement.
- Met with VELCO executives re the financial outlook for transmission costs.

- Met with Department of Public Service and GDS Associates re rate case investigation.
- Continued sponsorship of IT Forward implementations.
- Sponsoring internal team reviewing rebate process for efficiencies and effectiveness.
- Liaison with DPS on State of Vermont COVID19 arrearage assistance program.
- Facilitating a white accountability group for City employees sponsored by the Racial Equity, Inclusion and Belonging (REIB) Office.

Finance & Accounting

- Additional follow-up to Moody's rating inquiries. Moody's affirmed BED's A3 rating with stable outlook.
- Preparing audit deliverables and working with the external auditors on the FY2021 audit.
- Additional discussion with external auditors re changes to Tier 3 and REC accounting.
- Monitoring receivables in response to COVID19: as of August 31, 2021, BED's total non-current receivables had increased \$4,813 or 0.3% compared to the end of June 2021. Arrearages >60 days were \$1,088,970.



Billing & Analytics

- Reviewing bills for compliance with August 1 rate case tariff adjustment and troubleshooting bill processing problems.
- Continued review and clean-up of leased light charges.
- Internal meetings on implementing new EV rates.
- Functional lead for MDMS replacement and team member on Customer Portal replacement projects, with work on data integrations, data migration, continued discovery sessions, and data cleanup.
- Reviewed Operating Guidelines for potential changes.

Information Services

- Continued work on setup and configuration of new Data Center equipment.
- Completed SP4 upgrade of OpenWay 7 test system.
- Issued RFP for multi-factor authentication (MFA) solution.
- Continued work on initial data extracts for CIS daily syncs and MDMS data conversion for IT Forward projects.

- Researching possible phone system replacement solutions.
- Intune/ABM pilot of iPads continuing.

Policy and Planning

- Met with DPS and consultant on rate filing.
- Received Act 151 Program approval from PUC.
- Received TEPF Carryforward approval from PUC.
- Meetings with EVSE provider re possible charging station sites in Burlington.
- Internal meetings on implementing new EV rates.
- Operating Guidelines review.
- Drafting PUC filings on DES and FY2021 regulatory asset due to COVID impacts on capital projects.
- UNH Sustainability Intern Kameice Francis finished her project.
- Met with VELCO management on VELCO future plans.
- Supported Moody's credit rating review.
- Multiple statewide Comprehensive Energy Plan stakeholder meetings (grid, thermal, transportation, climate council).
- Work on proposed Revenue Bond.
- Tier 3 accounting proposal reached with external auditor.
- Filed discovery responses in Global Foundries docket.
- Defeat the Peak events declared in August (but annual peak remains June).
- McNeil Solar Test Center permitting.
- Submitted final report and invoice for Northern Forests DES grant.
- Filed 2020 RES Compliance filing.
- Participated in net-metering rulemaking workshop.
- Participated in streamlined innovative rate standards workshop and drafting meetings.

Sustainability and Workforce Development

- Continued management of Ventilation Improvement Program (VIP) including ventilation deployment in 6 non-profits and businesses.
- Participated in 2nd EAN Summit Planning Committee meeting and EAN Pitch Selection committee.
- Attended the 2nd I-89 TDM transit focus group, hosted by the Chittenden County Regional Planning Commission and with technical support from Resources Systems Group.
- Continued involvement with EAN-inspired "Weatherization at Scale" workforce development subcommittee, including outreach to the weatherization community on their workforce development needs and curriculum development ideas to enable the State to meet decarbonization goals.
- Met with EVSE provider on the identification of several waterfront sites for level 2 chargers.
- Continued engagement with Building Electrification Institute (BEI) including work to devise a heat pump analysis tool for residential property owners; to help ensure messaging is consistent and clear, engaged with Efficiency Vermont re their heat pump tool's assumptions and criteria.
- Attended monthly Burlington 2030 District executive committee meeting; set agenda and goals for August steering committee meeting.

- Chaired first meeting of the Employee Engagement Committee, attended by 9 BED staff, and charged with recommending new and revised ways to encourage and facilitate innovation and staff engagement.
- Participated in initial BED-VGS meeting on the launch of Zero Energy Home pilot program including the identification of 5 pilot homes and the interplay between ZE Now Home consultant, VGS and BED.
- Orchestrated Leadership Champlain's presentation on local business owner perceptions of EVSE and feedback on charging infrastructure and deployment.
- Launched planning of Mayoral Net Zero Energy strategy meeting, scheduled for September 10 at Hula, and intended to solicit ideas from participants on the further advancement of NZE.

Center for Safety and Risk Management – Paul Alexander

Safety

- Four (4) AED's have been installed in several locations at the McNeil Station.]
- Conducted a walk thru to discuss taking the GT out of service and finalizing the presentation to the Pine Street Safety Committee regarding the Level 2d S&T qualifications.
- Tried the reaction arm tool at the Train Trestle. It worked after a few modifications.
- Met individually with McNeil Station Operators to discuss training opportunities.
- Creating a practical factor qualification sheet for 480V fuse changeout for Supervisors.
- Distributed online Line Electrical Safe Work Practices training to Energy Services employees.
- IHMS PT to begin mid-September.

Environmental

- Ross Predom, Senior Environmental Specialist , completed the MBA program through Champlain College.
- Conducted quarterly and biannual wastewater testing.
- Completed CEMs linearity testing.
- Conducted environmental inspection cross training.
- Began RATA planning and preparation.

Risk Management

- Claims Investigations 3 total (1 WC, 1 Property, 1 Other).
- Continued research, effort, planning, and correspondence on Coronavirus (COVID -19), return to work plans, health officers, city face mask policy, vaccinations, signage, etc.
- Met with Zurich engineers on-site regarding McNeil Insurance recommendations.
- Coordinate with the Department of Homeland Security on a physical security on-site visit (10/12-14).
- Create Sterling Mountain Solar release (solar panels on WMA).

Purchasing/General Services

- Met with contractor on moving AC inside for the dispatch area at Pine Street to increase working efficiency.
- Met with the State and performed a building efficiency audit in "A" building.

Center for Operations & Reliability – Munir Kasti

Engineering and Operations

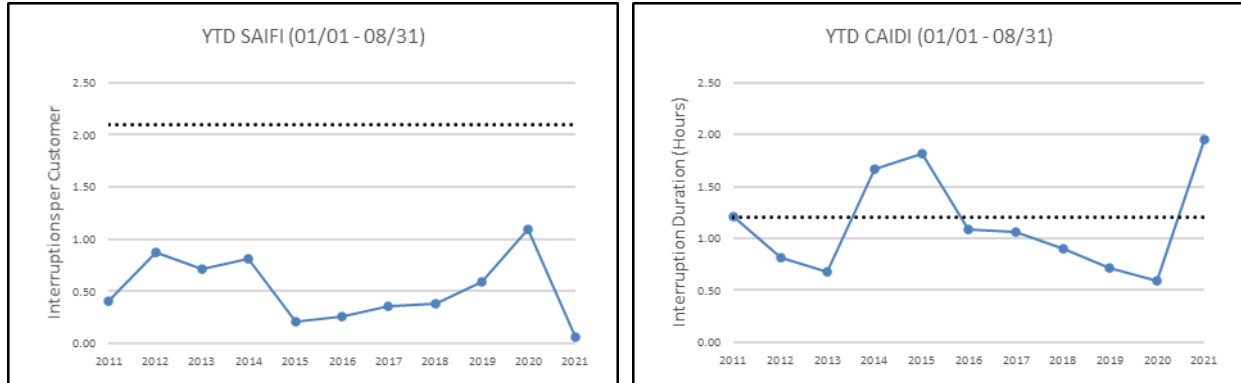
- Issued the design and work order for the aerial reconductoring of the 1L4 circuit along North Avenue from Northgate Road to North Avenue extension. Waiting on Consolidated Communications to set the poles.
- Installed a new anchor at Shelburne Roundabout.
- Performing underground utility hole inspections.
- Removed old poles along Starr Farm Beach.
- Issued the design and work order and installed new service to 400 Pine Street.
- Started setting new poles for the relocation of aerial circuit on Richardson Street.
- Performed numerous street light repairs
- Performed service disconnect/reconnect and installed new services at numerous locations in the city.
- Performed troubleshooting of fuel pump at the Gas Turbine.
- Removed graffiti from BED equipment at locations throughout the city.
- Continued training at the Gas Turbine and in Dispatch.
- Continued performing circuit breaker maintenance at substations.
- Performed preventative maintenance on field devices.
- Issued an RFP for civil work (conduit system installation) for the Appletree Point rebuild project
- Issued the design and work order for the following projects:
 - o Starr Farm Beach – adding a phase and balancing load.
 - o Rebuild of aerial secondary on Shelburne Street from Prospect Parkway to Alfred Street.
 - o Aerial secondary rebuild and street lighting work on Richardson Street
 - o Transfer to new pole P609 set by Consolidated Communications on Pine Street.
 - o Service upgrade for BTV Airport Terminal Expansion project.
 - o Service upgrade for BETA Technologies' North Expansion.

SAIFI & CAIDI Outage Metrics:

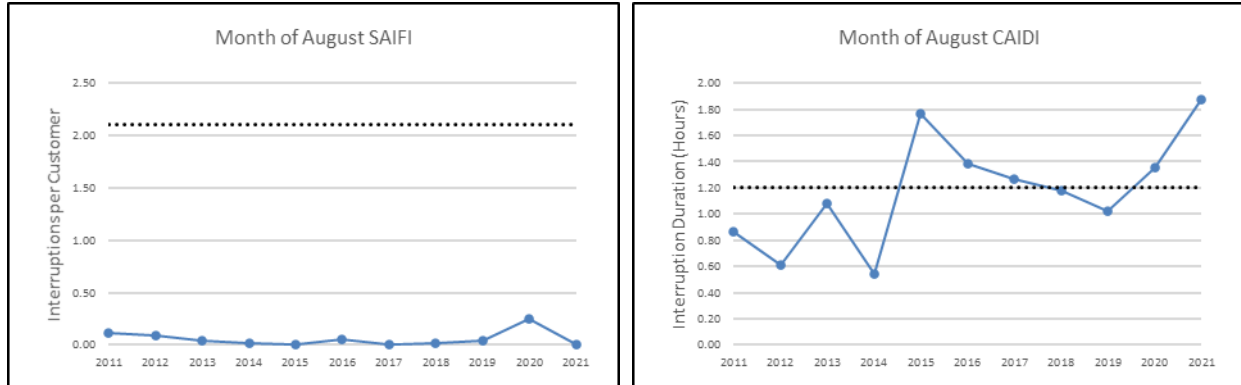
BED's distribution system experienced 5 outages in August 2021 (4 unscheduled and 1 scheduled). BED's SAIFI for the Month of August was 0.002 interruptions per customer and CAIDI was 1.87 hours per interruption. BED's YTD SAIFI is 0.06 interruptions per customer and YTD CAIDI is 1.95 hours per interruption.

The higher monthly CAIDI metric is the result of fewer outages this month with one outage having a long duration. This outage was the result of an underground transformer failure.

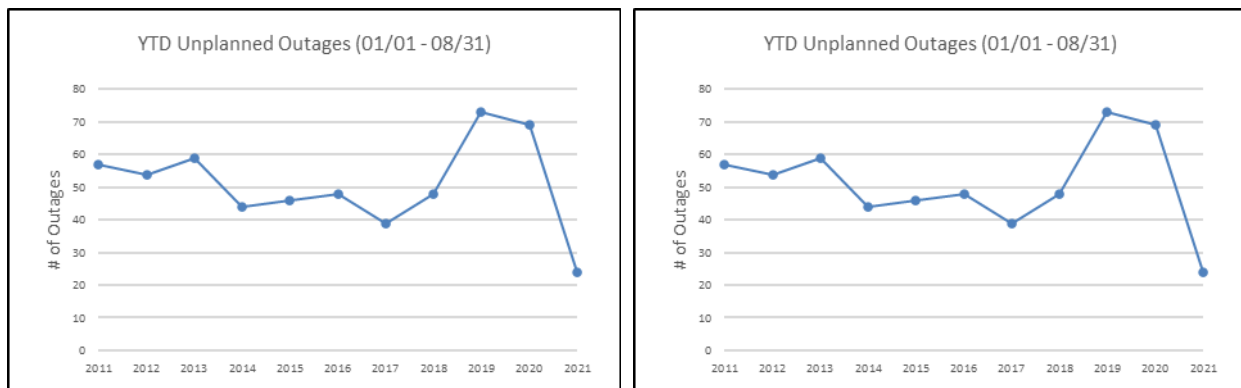
The following figure shows BED's historical YTD SAIFI and CAIDI:



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



The following figure shows BED's historical Unplanned Outages:



GENERATION

McNeil Generating Station, August 2021

Month Generation:	28,792.0 MWh
YTD Generation:	197,063 MWh
Month Capacity Factor:	77.4%
Month Availability:	81.3%

Hours of Operation: 607.5 Hours

After 16 years and 7 months of service to BED, 1st Class “A” Mechanic Pat Gingras has retired. Yard Worker Rob Barrett was awarded the position of General Plant Worker. Two Yard-Worker positions were posted at the plant this month.

Winooski One Hydro, August 2021

Month Generation:	1,687.5 MWH (122.19% of average)
YTD Generation:	16,348.224 MWH (71.187% of average)
Month Capacity Factor:	30.65 %
Month Availability:	99.8 %

No loss of generation during the month of August.

Burlington Gas Turbine, August 2021

Month Generation:	118.087 MWh
YTD Generation:	335.797 MWh
Month Capacity Factor:	0.827%
Month Availability:	99.460%
Hours of Operation Unit A:	11.0
Hours of Operation Unit B:	11.0

There were five total operations of the asset during the month of August, all dispatched by ISO NE, ranging from a duration of approximately 1 hour of operation to a duration of approximately 3 hours of operation. There was a short period of planned unavailability of the asset during the month to troubleshoot the fuel pump motor skid. The asset is fully functional and in service at the end of the month.

Solar (Pine Street 107 kW)

Month Generation:	14 MWh (-8% from previous year)
YTD Generation:	84 MWh
Month Capacity Factor:	17%
Month Availability:	100%

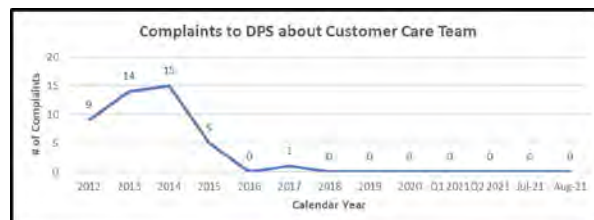
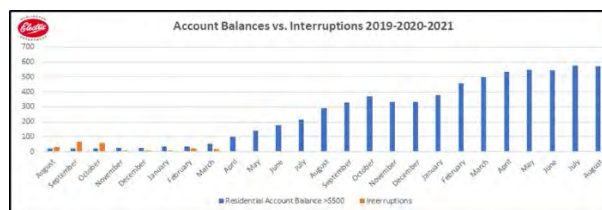
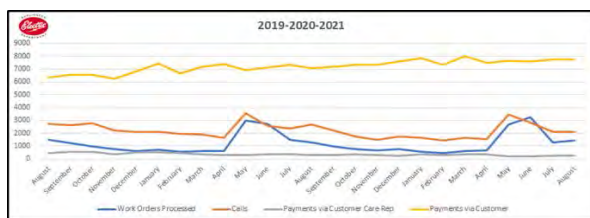
Solar (Airport 499 kW)

Month Generation:	72 MWh (-7% from previous year)
YTD Generation:	433 MWh
Month Capacity Factor:	19%
Month Availability:	100%

Center for Customer Care & Energy Services – Mike Kanarick

Customer Care

- **Call Answer Time (75% in 20 seconds):** August 2021 81.5%, July 81.6%, June 69.3%, May 65.8%, April 91.0%, March 89.1%. August 2020 72.1%, July 78.6%, June 74.8%, May 65.9%, April 86.9%, March 84.2%. Call answer time steady from last month and up 9.4% from same time last year. Monthly # calls (2,111) nearly identical to last month (2,116).
- **August 2021 Stats:** please see dashboard for additional metrics categories.



Communications and Marketing

- Temporary Energy Assistance Program to offset 7.5% rate increase: to help offset BED's first-rate increase in 12 years that has begun to appear as a surcharge on customer bills in August, we are offering income-qualified customers temporary assistance in the form of a monthly bill credit through June 2022. So far 22 customers have been approved and 6 are awaiting verification. Customers can learn about eligibility requirements and apply by visiting burlingtonelectric.com/rates.
- Vermont COVID-19 Arrearage Assistance Program (VCAAP II): The Vermont COVID-19 Arrearage Assistance Program (VCAAP) that was active last fall is back. VCAAP II provides financial support to residential (homeowners and renters) and commercial customers who may face disconnection of service because of past-due balances for their electric, landline telephone, natural gas, water, or sewer/wastewater charges. Vermonters must apply before October 25, 2021, and grants will be awarded on a first-come, first-served basis until funding runs out or the program ends. Customers may visit bit.ly/vtbills to apply. In the first weeks of VCAAP II, BED has verified 46 of 65 applicants for a total of \$35,530, of which BED received the first installment of \$6,000. VCAAP 1.0 ended in mid-December 2020; BED was successful in securing for our customers \$345,437 (\$259,098 residential and \$86,339 commercial) in grants
- Vermont Emergency Rental Assistance Program (VERAP - erap.vsha.org): launched by State in April "to help alleviate income pressure on tenants and landlords and restore stability to the rental community." VERAP will help tenant households with paying rent, as well as paying utility and home energy costs. The program had a slow start, but as of the end of August, BED had verified 155 of 319 program applicants, totaling approximately \$97,000 (last 2 months #s were 109 of 244 program applicants, totaling \$60,269, and 41 of 133 program applicants, totaling \$20,000) that will be coming to BED.
- Art Hop sponsorship: BED once again will partner with our friends at SEABA to sponsor Art Hop, taking place from September 10-12. This year, Art Hop will be an in-person event with online and virtual components. BED's 585 Pine Street building will be part of "Light Hop" – SEABA partner Satellite Arts productions will include LED lighting on the building at night, in addition to lighting

- on other Pine Street building. BED also will provide activity books for the goodie bags for Kids Hop.
- North Avenue News: September column included the same message as last month, promoting the temporary energy assistance program for low-income customers, VCAAP II, VERAP, and 0% on-bill financing (OBF). Our September ad promotes VCAAP II (bit.ly/vtbills).
- August 2021 Website and Facebook Highlights
- We launched our new www.burlingtonelectric.com website in July. The new site is built on the Wordpress platform and provides more security and easier updating and upgrading capabilities.
- Website traffic throughout year
 - Overall site-wide pageviews for August = 22,962
 - July = 23,727
 - June = 25,159
 - May = 28,428
 - April = 22,745
 - March = 21,463
 - February = 18,773
 - January = 20,402
 - December 2020 = 18,797
 - November = 19,638
 - October = 20,661
 - September = 23,850
 - August = 26,709
 - Unique homepage pageviews for August = 8,464
 - July = 7,931
 - June = 7,484
 - May = 7,499
 - April = 5,404
 - March = 5,775
 - February = 5,165
 - January = 7,571
 - December 2020 = 5,561
 - November = 7,071
 - October = 5,844
 - September = 9,266
 - August = 7,883



Full site traffic for August 2021



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

page title	Aug 2021	July 2021	June 2021	May 2021	Apr 2021	Mar 2021	Feb 2021	Jan 2021	Dec 2020	Nov 2020	Oct 2020	Sept 2020	Aug 2020
Burlington Electric Department	844	914	908	967	684	734	652	721	732	707	747	927	1086
My Bill	2846	3033	3295	3235	3087	3228	3046	3532	3308	2995	3258	3651	3566
Waste Wood Yard	1082	1212	1160	1569	2034	1110	367	979	761	1756	1545	1303	1749
Report A Problem	79	153	135	93	60	88	80	80	121	76	140	721	903
Stop or Start Service	867	803	1079	2599	622	337	279	336	277	330	366	502	873
E-billing	345	522	451	337	380	352	368	495	528	397	394	669	673
Contact Us	642	638	731	949	485	560	413	417	467	414	439	547	655
McNeil Generating Station	339	447	429	607	791	517	395	505	507	734	631	548	624
Heat Pumps	496	567	369	82	40	39	46	30	n/a	18	36	35	39
Rebates	571	621	795	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rebate Center	667	679	319	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Green Stimulus	113	138	233	255	257	280	504	283	208	158	152	171	357
Stop or Start Service	867	803	1079	2599	622	337	279	336	277	330	366	502	873
Leadership Team	276	228	240	212	198	308	218	286	207	193	190	269	250
Rates & Fees	132	143	247	310	184	212	218	161	140	139	190	190	240
Usage Tracker Registration	151	177	223	107	118	150	196	185	309	147	154	201	238
RFP	497	455	158	143	439	393	471	404	158	387	409	383	232
Residential Ways to Save	491	172	220	217	173	175	163	137	159	137	212	172	205
Electric Vehicles	265	245	332	247	258	246	218	210	190	208	296	219	199
E-Bikes	265	207	192	223	242	196	117	106	109	117	131	174	197
Net Zero Energy News	129	115	178	210	132	187	195	228	179	225	222	241	193
Electric Vehicles	265	245	332	247	258	246	218	210	190	208	296	219	199
COVID-19 Updates	166	397	540	355	275	352	301	349	337	323	281	83	185
Our Energy Portfolio	59	42	n/a	51	110	102	101	49	54	53	84	125	103
Electric Lawn Mowers & Leaf Blowers	133	184	229	408	312	176	79	131	70	157	101	88	113
RFP Detail	334	185	n/a	23	401	199	414	303	148	293	321	403	98
Defeat The Peak	137	22	155	11	17	20	35	n/a	n/a	10	20	n/a	35
Commercial Ways to Save	55	39	62	26	46	59	33	37	41	34	53	33	21

- Top Facebook posts.
 - Big responses from Defeat The Peak posts

08/26/2021 8:56 AM		Calling all Burlingtonians! Today is looking to be a possible peak event			418		5 5	
08/24/2021 12:22 PM		BED's General Manager Darren Springer met with The Curtis Fund			456		14 8	
08/24/2021 12:18 PM		BED's General Manager Darren Springer visited ANEW Place			1.1K		12 51	

Blue: clicks / Red: comments, shares

Energy Services

UVM

- UVM Physical Plant Department Regular Monthly Check-in Meeting – BED Energy Services and Engineering teams met with UVM staff to discuss planned new construction projects, street lighting, and several energy efficiency upgrade projects.
- UVM Southwick Hall / IT Server Room Cooling Retrofit – BED is working with the project coordinator for this project to estimate a rebate for the installation of a high-efficiency cooling unit for this space. BED is intending to create an energy model to calculate approximate savings. We are awaiting some additional information from the customer before proceeding.
- UVM Stafford Greenhouse / LED Grow Lighting – All but one of the new LED grow-light fixtures have been installed in the Stafford greenhouses. They were originally intended for greenhouse 10, but due to unforeseen factors, the fixtures have been installed in several of the greenhouses at this address. All but one of the 18 fixtures purchased have been installed. A BED site visit will be scheduled shortly to finalize the incentive process.

UVMCC

- UVM Medical Center / Operating Room HVAC Re-Commissioning – BED worked with a local commissioning agent to develop a rebate proposal for the re-commissioning of the air-handling units which serve the main campus' operating rooms. BED agreed to assist by paying 50% of the Phase 1 re-commissioning proposal cost. This proposal's purpose is to investigate the present operating state of the AHU's and to develop a Phase 2 plan for operational and energy efficiency improvements in this equipment.

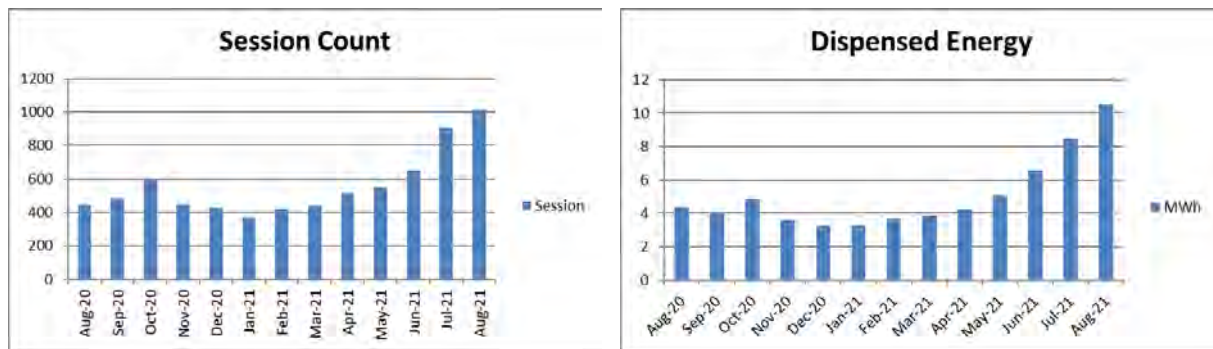
Other Services

- City Market Downtown / Open Case Cooler Door Adds & Refrigeration Compressor Rack Condensing Unit Replacements – This local grocery store, that is dedicated to continued improvements in energy efficiency, has just completed two refrigeration projects. Adding 60 ft of doors to open-case coolers created a significant energy savings at a relatively low cost. Outside condensing units, which reject heat from the coolers to the outside air, were made more energy efficient by adding variable speed drives to the fans. Both of these measures were completed this month, and the BED committed rebate checks have been disbursed to the customer.
- Dealer.com / 444 Pine St. Facility Re-Lighting Project – BED has been contacted by Cox Automotive, who owns this local company, to re-initiate the lighting project which will replace existing lighting with the latest LED lighting technology. Covid restrictions were responsible for delaying the implementation. The fixture installations are due to begin this month. BED is awaiting the latest fixture specs, so that the earlier custom lighting power density lighting calculations can be updated and evaluated against the latest CBES version 2020.
- Hannaford North Avenue / Renovation – Over the last few months BED has received preliminary information on a planned renovation project at the Hannaford's North Avenue grocery store. Hannaford has enlisted VEIC to assist in obtaining energy efficiency rebates for all their stores across the east coast. Already confirmed are incentives for a 3-head mini-split system that is being specified for the pharmacy area.
- Cambrian Rise / Laurentide New Construction – This affordable multifamily is has now been occupied for over a year. Energy model calibration is now in progress to verify that the building is running as efficiently as originally designed and built. Some discrepancies in the prediction versus the actual building usage are now being evaluated.
- Cambrian Rise / Building B & G – The approximately 90-Unit multi-family building is a combination of the renovation of an existing building (Building B) with an attached all-new construction structure (Building G). It was occupied at the end of 2020 when the first BED rebate payment was disbursed. BED is now evaluating the actual energy performance of the building and comparing it with the earlier energy model predictions. Once that efficient performance is confirmed, the second rebate payment can be paid out to the owner.
- Citizen Cider / Cider Processing Facility – As of last month the commissioning process for the HVAC and refrigeration systems in this facility has been completed. A meeting was held this month with the owner outlining the steps for verifying the commissioning savings over the upcoming months, and then delivering the BED committed incentive.
- Cambrian Rise / Juniper House New Construction – This affordable 55+ multifamily building was occupied in March 2021. Several months ago BED paid out the energy efficiency rebate that we committed to at the start of the project. We are now beginning to examine the actual energy use of the building compared to the energy model predictions to better understand how well the building is operating after several months of occupation.
- Community Sailing Center / New Construction – This recently constructed building on the Burlington waterfront was the first 'Net Zero Energy' building in the city. It is heated and cooled in its entirety by electricity with no connection to natural gas mains. At the request of the executive director of the facility, BED completed an updated analysis of the facility's electrical usage compared to the electrical generation of its solar PV, and again confirmed that the building continues to operate in the 'Net Zero Energy' mode.

Electric Vehicles

The EVSE dispensed a total of 10.50 MWh and supported 1,016 sessions.

- The top 3 sales were 69, 89 & 94 kWh and occurred at the Cherry St & College St. garages.
- The top 10 sessions (0.98% of total) accounted for 6.7% (704 kWh) of the total monthly sale. The ten sessions ranged from 60kWh-94 kWh.
- The DC fast chargers accounted for 58 of the 1,016 sessions and dispensed 6.5% of the total energy. The Marketplace Garage station is currently OFF due to faults that were not able to be resolved. The Pine Street station was OFF for 1-week but is now ON however, it is not able connect with a cellular provider. Currently monitoring.
- The EVSE served 563 unique drivers.
- The Pricing Policy for the new College Street stations has been correctly applied.
- *Session Count* and *Dispensed Energy* plots from the from the public charging network are shown below.



- Number of EV and PHEV rebates to date – 290 (of this 42 LMI rebates to date as shown below)
 - New All Electric Vehicle – 130
 - New All Electric Vehicle (LMI) – 22
 - New PHEV - 79
 - New PHEV (LMI) - 18
 - Used All Electric Vehicle – 18
 - Used All Electric Vehicle (LMI) – 1
 - Used PHEV- 13
 - Used PHEV (LMI) - 1
 - All Electric Vehicle (\$50K plus) - 8
- Number of customer loans with lending partners to date – 5
- Number of customers currently participating in the new EV Rate- 73
- Number of EV home charging stations rebates to date - 46

Electric Lawn Equipment to Date

- Number of e-mower rebates to date – 357 (10 commercial & 347 residential)
- Number of e-leaf blowers to date - 17

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

- Total Number of Heat Pump Technology rebates to date- 448 (of this 65 LMI rebates to date as shown below)

- Number of space conditioning heat pumps to date (ductless and centrally ducted) – 369
- Number of income-eligible space conditioning heat pump participants to date – 64
- Number of heat pump hot water heaters to date – 14
- Number of income-eligible heat pump hot water heaters participants to date - 1

Electric E-Bikes to Date

- Number of e-bike rebates to date – 248

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

- Number of induction Stovetops rebates to date – 4

BED 2021-2022 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2021 Actuals	July 2021 Actuals	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual
Engage Customers and Community											
Call answer time 75% within 20 seconds	75%	82%	82%	69%	65%	91%	89%	93%	87%	avg 81%	
Delinquent accounts >\$500	0	573	578	545	552	535	500	458	378	avg 201	
Disconnects for non-payment	0	0	0	0	0	0	0	0	0	45	
# of residential weatherization completions	10	1	0	1	1	0	1	0	0	3	11
Weatherization completions in rental properties		-	0	0	-	-	0	0	0	0	TBD
# or % of homes or SF weatherized		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	0
Champ Challenge weatherization participants		0	0	0	0	0	0	0	0	1	TBD
# of commercial building with improved thermal envelopes		1	0	0	1	0	1	0	0	5	0
% of EEU charge from LMI customers spent on EE services for LMI customers		TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
# of customers enrolled in DtP mailing list	TBD	689	694	693							523
# of large customers participating in DtP		11	NA	12							
Strengthen Reliability											
SAIFI (AVG interruptions/customer) (annual target)	< 2.1	0.002	0.06	0.02	0.01	0.004	0.01	0.004	0.002	1.50	1.03
CAIDI (AVG time in hrs to restore service) (annual target)	< 1.2	1.87	1.95	3.85	0.75	0.77	0.49	1.05	0.72	0.55	0.75
Distribution System Unplanned Outages (annual target)	82	4	7	3	0	1	3	2	4	90	98
McNeil Forced Outages	0	1	1	0	0	0	0	0	1	21	TBD
W1H Forced Outages	0	0	2	0	0	0	2	1	0	2	TBD
GT Forced Outages	0	0	0	0	0	0	1	0	1	3	TBD
Invest in Our People, Processes, and Technology											
Avg. # of days to fill positions under recruitment	120	76	64	60	47	65	35	77	62	179	
# of budgeted positions vacant	0	14	11	10	7	6	6	6	7	6	NA

BED 2021-2022 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2021 Actuals	July 2021 Actuals	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual
Innovate to Reach Net Zero Energy											
<i>Tier 3 Program</i>											
# of residential heat pump installs	See NZE Roadmap Goals below	14	58	32	25	30	7	14	24	203	10
# of commercial heat pump installs		0	0	0	1	0	0	0	0	13	0
# of residential hot water heat pump installs		0	2	0	2	1	0	0	1	6	4
# of commercial hot water heat pump installs		0	0	0	0	0	0	0	0	0	0
Heat pump rebates		14	58	36	26	30	7	14	25	212	0
Heat pump hot water heater rebates		0	2	0	2	1	0	1	1	3	0
LMI heat pump rebates		0	2	2	4	8	0	1	0	6	4
Heat pump technology installs in rental properties		2	2	2	3	0	0	2	0	9	TBD
LMI heat pump hot water heater rebates		0	0	0	0	-	0	1	0	0	1
EV rebates - new		1	15	6	10	4	7	4	6	14	36
EV rebates - pre-owned		0	0	0	0	1	0	1	1	8	2
LMI EV rebates		0	3	1	2	0	0	1	0	7	7
PHEV rebates - new		2	3	5	1	3	5	3	0	10	17
PHEV rebates - preowned		0	0	0	2	0	1	2	0	5	3
LMI PHEV rebates		1	2	1	0	0	0	1	0	6	2
Public EV chargers in BTV (total)		27 Ports	27 Ports	27 ports	27 ports	27 ports	27 ports	27 ports	27 ports	27 ports	14
Public EV charger energy dispensed (kWh)		10,500	8,500	5,060	5,070	4,200	3,860	3,600	3,280	35,690	78,000
Home EV charging station rebates		5	1	5	3	0	3	3	2	20	12
EV rate charging customers (total)		73	65	65	60	56	52	49	47	40	28
Level 2 charger rebates		0	0	0	0	0	0	10	0	0	1
Level 1 charger rebates		0	0	0	0	0	0	0	0	1	0
E-bike rebates		5	0	35	19	0	8	0	1	36	65
E-mower rebates		19	18	23	34	16	6	1	1	95	142
E-forklift rebates		0	0	0	0	0	0	0	0	0	0
MWE of Tier 3 measures installed		809	3,819	3,127	2,135	1,339	1557	818	2,064	35,112	3,342
% Tier 3 obligation met with program measures	100%	105%	100%	74%	53%	39%	30%	19%	14%	283%	31%
<i>Net Zero Energy Roadmap Goals</i>											
# of solar net metering projects installed		2	5	2	1	1	1	5	5	24	33
No. of homes receiving NZE Home Roadmaps		1	1	0	0	0	1	1	0	7	
Residential heat pumps for space heating (no. of homes)	2020: 3963	NA	NA	NA	NA	NA	NA	NA	NA	891, 22% of goal	572
Commercial heat pumps for space heating (SF floor space served)	2020: 1190	NA	NA	NA	NA	NA	NA	NA	NA	1304, 110% of goal	374
Residential heat pumps for water heating (no. of homes)	2020: 1466	NA	NA	NA	NA	NA	NA	NA	NA	92, 6% of goal	87
Commercial heat pumps for water heating (SF floor space served)	2020: 263	NA	NA	NA	NA	NA	NA	NA	NA	0	-
EV registrations in BTV (light-duty)	2020: 548	NA	NA	NA	NA	NA	NA	NA	NA	356, 65% of goal	291
Greenhouse gas emissions (1000 metric tons CO2)	2020: 190	NA	NA	NA	NA	NA	NA	NA	NA	182, 104% of goal	211
Fossil fuel consumption (billion BTU)	2020: 3207	NA	NA	NA	NA	NA	NA	NA	NA	3142, 102% of goal	3,619
<i>Demand Response</i>											
# of Defeat the Peak events called		3	0	2	NA	NA	NA	NA	NA	3	4
Average kW savings per DtP event		379	NA	460	NA	NA	NA	NA	NA	261	242

BED 2021-2022 Strategic Direction Dashboard

Metrics by Strategic Initiative	Target	Aug 2021 Actuals	July 2021 Actuals	June 2021 Actuals	May 2021 Actuals	Apr 2021 Actuals	Mar 2021 Actuals	Feb 2021 Actuals	Jan 2021 Actuals	2020 Yearly Actual	2019 Yearly Actual
Manage Budget and Risks Responsibly											
<i>Safety & Environmental</i>											
No. of workers' compensation/accidents per month	0	1	0	0	1	0	2	0	0	8	
Total Paid losses for workers' compensation accidents (for the month)	\$225,000 annual	\$2,279	\$8,109	\$43,320	\$7,042	\$2,809	\$8,289	\$2,768	\$1,868	\$ 165,402	\$38,288
Lost Time Incident Rate (days/year) (Dec numbers reflect annual results)	<= 3.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.93	0.89
Lost Time Severity Rate (days/year) (Dec numbers reflect annual results)	<= 71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.71	78.2
Lost work days per month	0	0	0	0	0	0	0	0	0	45	
NOx reporting levels to EPA (Quarterly) (lbs/mmbtu)	<0.075	0.071	0.068	0.068	0.069	0.071	0.068	0.069	0.067	0.07	
# of reported spills, waste water incidents (monthly)	0	0	0	1	0	0	0	0	0	4	
Phosphorus levels to DEC in lbs (monthly/yearly total)	<0.8/37	0.116/1.489	0.116/1.489	0.034/1.373	0.048/1.339	0.17/1.291	0.631/1.121	0.192/0.192	0.334/1.81		1.169
# of new power outage claims reported (monthly)	1	0	1	1	0	1	0	1	0	4	
# of new auto/property/other liability claims reported (monthly)	2	2	2	1	1	1	2	2	0	27	
<i>Purchasing & Facilities</i>											
# of Purchase Orders for Inventory (Target: avg for winter months)	42	112	56	37	30	32	53	28	90	593	
\$ value of Purchase Orders for Inv. (Target: avg dollars spent during winter)	\$78,000	\$1,871,500	\$98,535	\$105,330	\$65,173	\$31,021	\$139,566	\$193,052	\$91,356	975,531	
# of stock issued for Inventory (Target: avg during winter months)	320	336	420	406	265	501	272	334	315	4,545	
\$ value of stock issued for Inventory (Target: avg. during winter)	\$ 65,000	\$ 36,471	\$ 71,605	\$ 100,339	\$ 45,103	\$ 75,434	\$ 61,775	\$ 37,230	\$ 102,901	1,086,478	
# of posters pulled from poles monthly (Target: goal to remove each month)	58	503	237	205	185	221	176	72	165	627	
# of Spark Space and Auditorium setup/breakdowns monthly (Target: Covid impact)	3	6	6	9	4	4	8	1	1	87	
<i>Finance</i>											
Debt service coverage ratio	1.25		3.91	NA	4.05	4.47	3.89	4.01	3.56	NA-FY basis	NA
Adjusted debt service coverage ratio	1.5		0.96	NA	1.01	1.15	0.96	1.02	0.86	NA-FY basis	NA
Days unrestricted cash on hand	>90		116	NA	117	127	122	126	109	NA-FY basis	NA
<i>Power Supply</i>											
McNeil generation (MWH) (100%)	per budget	28,792	26,094	18,302	15,925	17,407	35,682	32,549	22,312	192,696	
McNeil availability factor	100%	81%	71%	93%	95%	76%	100%	100%	61%		
McNeil capacity factor	per budget	77.4%	70%	51%	42.8%	48.3%	95.9%	96.9%	59.9%		
Winooski One generation (MWH)	per budget	1,687	2,051	642	2,636	3,713	2,872	1,162	1,584	21,194	
Winooski One availability factor	100%	99.8%	99.8%	100%	100%	96%	100%	90%	90%		
Winooski One capacity factor	per budget	30.6%	37%	12%	48%	70%	52%	23%	29%		
Gas Turbine generation (MWH)	NA	118.1	87.0	32.6	15.4	18.5	29.4	17.8	16.9	441	
Gas Turbine availability factor	100%	99.5%	100%	95%	100%	100%	99.9%	100%	99%		
Gas Turbine capacity factor	NA	0.83%	0.61%	0.24%	0.09%	0.11%	0.17%	0.115%	0%		
BTV solar PV production (mWh)		588	542	644	642	525	548	190	107	5,182	
Cost of power supply - gross (\$000)			\$ 2,483	\$ 2,564	\$ 2,431	\$ 2,092	\$ 2,955	\$ 2,477	\$ 2,457	\$ 31,081	
Cost of power supply - net (\$000)			\$ 2,483	\$ 2,564	\$ 2,090	\$ 514	\$ 2,955	\$ 592	\$ 2,457	\$ 23,388	
Average cost of power supply - gross \$/KWH			\$0.085	\$0.090	\$0.097	\$0.086	\$0.111	\$0.095	\$0.089	\$0.100	
Average cost of power supply - net \$/KWH			\$0.085	\$0.090	\$0.084	\$0.021	\$0.111	\$0.023	\$0.089	\$0.076	

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

Wednesday, August 11, 2021, 5:30 pm

The regular meeting of the Burlington Electric Commission was convened at 5:32 pm on Wednesday, August 11, 2021 via Microsoft Teams Video Meeting.

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

Commissioners Chagnon, Herendeen, Moody, Stebbins, and Whitaker participated via Microsoft Teams.

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

1. Agenda

There were no changes to the Agenda.

2. July 14, 2021 Meeting Minutes

Commissioner Moody made a motion to approve the minutes of the July 14, 2021 Commission Meeting; the motion was seconded by Commissioner Herendeen.

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

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

Results: 5 Ayes with 0 Nays, the motion carries.

3. Public Forum

Present for the meeting was Mr. Thomas Melloni, Esq. from the Paul, Frank, and Collins law firm.

4. Commissioners' Corner

Commissioner Stebbins attended BED night at the Lake Monsters game and stated that she really enjoyed the event.

Commissioner Herendeen stated that the monthly report indicated that the capacity factor and availability at Winooski One was the same and asked if this was due to a water problem. Mr. Kasti stated that is due to a water problem. Mr. Gibbons stated that it has been a grim hydro year, and yet Winooski One has not been doing as poorly as some of the other hydro plants in the state.

Commissioner Herendeen asked if heat pumps or gas would be used for the Cambrian Rise project. Mr. Springer stated that some of the buildings in Cambrian Rise are looking at heat pumps as the primary source but believes they are also looking at natural gas for air tempering as well. Mr. Springer asked Mr. Kanarick to follow up with Mr. Burns for a more detailed response to be sent to Commissioner Herendeen.

5. GM Update

Mr. Springer stated that BED will have a "Defeat the Peak" event tomorrow from 4:00 – 7:00 pm and encouraged Commissioners to participate and spread the word to neighbors and community members to participate in defeating the peak tomorrow, if possible. Mr. Springer stated that for this event BED has partnered with the Curtis Fund, which supports low-income Vermonters with scholarships for education.

Mr. Springer stated that the Ever-Green staff were in Burlington in late July for visits with UVM, UVMMC, the Intervale Center, BED, and VGS. The McNeil Joint Owners are discussing terms for the potential sale of thermal energy to the Burlington District Energy System (DES), and Ever-Green is continuing with operational planning with the potential customers.

Mr. Springer stated that Senator Leahy issued a press release highlighting Vermont projects that he supported with federal funding requests. These funding requests are included in the Senate Appropriations Bill along with the BED's DES project funding in the amount of \$5.166M for construction support. We are very grateful to Senator Leahy and his staff for including the DES request in the federal appropriations legislation. The funding will provide a big boost to the project.

Mr. Springer will provide an update on our progress with Phase 3 of the DES project to the Transportation Energy Utilities Committee and the City Council in late September. We continue to anticipate bringing the Phase 3 work to a close sometime this fall.

BED engaged with the authors of a Clean Heat Standard proposal that has emerged from Energy Action Network's pitch sessions as a possible legislative item, and possible recommendation from the Climate Council. This would put some type of renewable fuel requirement, similar to the electric sector's Renewable Energy Standard, on fuel dealers and VGS. This could be a positive from a

climate standpoint, and BED's interest is in part relative to ensuring we retain all our current regulatory tools that are supporting our Net Zero Energy city effort, such as our Tier 3 incentives, in the process of a Clean Heat Standard design. We also want to ensure that there is coordination between electric utility work with Tier 3 and potential fuel sector work with the new Clean Heat Standard.

The PUC has formally opened an investigation into BED's rate increase request as expected, and the DPS has retained an outside consultant to assist in its review of our rate case proposal. The surcharge is effective on customer bills as of August. BED has opened our temporary energy assistance program. We have had some customers sign up, and we encourage more customers to do so. We have expanded the eligibility to include not only customers who are eligible and participating in the State Fuel Assistance Program, but also customers who receive Section 8 housing. Mike Kanarick, Andi Higbee, and the Customer Care Team are reaching out to communicate that opportunity to our customers.

There is a proposal for decision, not yet an order, from the PUC that would approve our Act 151 filing. This could be an important development in helping to ensure continued strong customer incentives, such as the Green Stimulus level incentives for heat pumps and could give us the tools to even further increase our EV incentive and open up some new programs. This would help us use the efficiency dollars in tandem with the Tier 3 dollars to do even more in some of those areas to maintain the Green Stimulus level incentives beyond 2021.

Mr. Springer stated that we have had a strong recommendation from the City and the Mayor for indoor masking to resume, whether or not staff members are vaccinated. We have changed the signage at our buildings to reflect the change, and there have been a number of meetings that have returned to remote technologies. We are conscious of the Delta variant and are looking to keep our employees and customers safe during this new stage of the pandemic. Mr. Springer will keep the Commission updated if there are any further changes in City policy.

Commissioner Moody asked if we might reconsider our plan to meet in person beginning next month. Commissioner Stebbins stated that she spoke with Mr. Springer about the September meeting and feels that it's not appropriate to ask anyone to attend in-person meetings given the uptick in COVID cases. She further stated that the Commission is a volunteer board, that it can keep potential contact limited, that it make more sense to keep the meetings remote for now. The Commissioners were in agreement. Mr. Springer stated that, in terms of City policy, we are fully able to continue with the way we are running the meetings in September, as long as we provide a physical location for residents if they would like to come in for public comment. Mr. Springer will share updated guidance as it is issued from the City.

Commissioner Stebbins stated that we are over \$1M dollar in arrearages, which is the highest arrearages we have seen in a very long time. Commissioner Stebbins asked where BED is in terms of support we can give to customers. Mr. Springer stated that the Vermont Emergency Rental Assistance Program (VERAP) is open for renters, and that we have a number of customers in the

queue to receive that funding. The first tranche of that funding – approximately \$66K – should be arriving this week. Also, in the latter half of 2020, BED utilized the Vermont COVID-19 Arrearage Assistance Program (VCAAP) to help provide over \$300K of arrearage assistance. VCAAP 2.0 is now available, and customers can access that funding over the next several months. The BED Team is doing a number of different outreach efforts to let customers know that VCAAP and VERAP are both open. Also, we have secured \$1.3M in funds from the American Rescue Plan Act (ARPA) through the City, and we expect that those funds will be coming in late September or early October. Hopefully, we can encourage many of our eligible customers to enroll in these programs, along with taking advantage of additional City resources, allowing BED to significantly drive down our arrearage number. The moratorium for disconnection of service has ended, and BED voluntarily has continued its policy to not disconnect for another few months to allow time for customers to take advantage of these programs. We will be coordinating with the City Water Department as to when we will resume disconnections for nonpayment. At that time, we will resume disconnections for nonpayment in line with applicable winter-time disconnection restrictions.

Commissioner Moody asked if BED could take a more personal approach with customers regarding these programs. Mr. Kanarick stated that there are separate portals through which people apply for these funds, and that the program administrators specially had asked utilities not to work with customers on the specifics of how to apply, but instead to refer the customers to the program websites and 800 numbers. BED has promoted the assistance programs on the BED website, in our advertising, and on Front Porch Forum explaining where customers should go to access the applications and where to go if they have trouble. Customer Care Reps do their very best to direct the customers, and they try to lend a hand where possible.

Financials

Ms. Stebbins-Wheelock stated that there was not a financial review included in the Commission packet this month due to only preliminary unaudited financials at this time. The Commission has received preliminary June financials presented at prior August meetings, however due to the timing for this meeting, along with our preparation for the audit, we did not have enough entries, as we had not closed period 12 and did not want to present results even in a preliminary form.

Commission Stebbins stated that she appreciates the tweaking of the monthly dashboard and asked if it would be possible to add a column in the area of Net Zero Energy Goals that lists the percentage to goal.

6. Revenue Bond

Mr. Springer stated that BED will be recommending to the City Council that it place the question of a Net Zero Energy Revenue Bond on the November ballot for voters. If that is approved we would then return to the Commission and the Council with a resolution related to the issuance of the revenue bond in March.

We included in the FY22 approximately one-half year of projects related to the revenue bond with the assumption that we will be successful in moving the bond forward. We would begin to have access to the revenue bond for projects sometime in December of this year and for the second half of the FY22 budget year.

The idea behind the Net Zero Energy Revenue Bond is to provide a financing mechanism to accelerate our progress as a community relative to our Net Zero Energy Roadmap goals and do so in a way that mitigates what would otherwise be cost pressures on BED's annual budgets.

Our 2030 Net Zero Energy goal is one of the most ambitious local climate goals anywhere in the nation, and recent national reporting has highlighted a gap in financing that exists for cities to meet their climate goals. BED's efforts alone will not be enough to achieve the Net Zero Energy goal, because this is a true community goal and requires partnerships, participation by the community, and complementary policies and funding at all levels of government. However, BED can play an important role in accelerating progress through some of the tools we have available, including incentive funding. BED also plays an important role in supporting grid and technology system upgrades that will be necessary as we adopt strategic electrification technologies, such as heat pumps and electric vehicles, at greater rates.

In presenting this idea, we draw on the energy efficiency revenue bond from 1990 (\$11.3 million), which was the foundation from which BED and our customers have since invested a total of over \$70 million in energy efficiency, helping to save BED customers over \$10 million annually on electric bills and contributing to Burlington using less electricity today as a community than we did in 1989, the year prior to the revenue bond.

BED is requesting authorization for total issuance of \$20M that would be expended over the course of partial year FY22, FY23, FY24, and partial year FY25. BED will further explore additional financing options to support our capital needs and Net Zero Energy progress beyond FY25 during the course of the next several years.

Mr. Springer and Mr. Melloni answered questions from the Commission after which the Commission was ready to make the motion to recommend.

Commissioner Moody made a motion to recommend to the City Council that BED's revenue bond proposal be placed on the November ballot not to exceed \$20M; the motion was seconded by Commissioner Whitaker.

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

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

Commissioner Stebbins. Aye
Commissioner Whitaker. Aye

Results: 5 Ayes with 0 Nays, the motion carries.

7. Commissioners' Check-In

There were no Commissioner check-ins.

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

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

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

Results: 5 Ayes with 0 Nays, the motion carries.

The meeting of the Burlington Electric Commission adjourned at 6:41 p.m.

Attest:


Laurie Lemieux, Board Clerk



*FY 2021
Financial Review
June
(Preliminary-Unaudited)*

September 2, 2021

Burlington Electric Department Financial Review

FY 2021

Table of Contents:

● Financial Highlights	1-2
● Revenues and Expenses	
○ KWH Sales – Total	3
○ Average Monthly Temperatures	4
○ KWH Sales – Residential & Commercial	5
○ Net Power Supply Costs	6-11
○ Operating & Maintenance Expense	12
○ Labor Overhead	13
○ Net Income	14
● Capital Spending	15 - 18
● Cash	19

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of June FY21 (unaudited)

(\$000)	Full Yr Budget	CURRENT MONTH			YEAR TO DATE		
		Budget	Actual	Variance	Budget	Actual	Variance
Sales to Customers	45,764	3,799	4,230	431	45,881	44,823	(1,059)
Other Revenues	3,837	408	283	(125)	3,720	3,240	(480)
Power Supply Revenues	8,107	0	0	0	8,107	8,052	(55)
Total Operating Revenues	57,708	4,207	4,513	306	57,708	56,115	(1,594)
Power Supply Expenses	30,915	2,485	2,585	(100)	30,916	30,561	355
Operating Expense	18,726	1,523	2,977	(1,454)	18,726	19,782	(1,056)
Depreciation & Amortization	5,231	436	449	(13)	5,231	5,330	(99)
Gain/Loss on Disp of Plant	346	0	20	(20)	346	248	98
Taxes	3,721	307	315	(8)	3,721	3,698	24
Sub-Total Expenses	58,939	4,751	6,346	(1,595)	58,940	59,619	(679)
Operating Income	(1,231)	(544)	(1,833)	(1,289)	(1,231)	(3,504)	(2,273)
Other Income	5,689	382	440	58	5,689	5,685	(3)
Interest Expense	2,520	212	201	11	2,520	2,455	65
Net Income (Loss)	1,937	(374)	(1,595)	(1,220)	1,937	(275)	(2,212)

Year-to-Date Results:

- **Sales to Customers** down \$1,059,000 (2.3%). Non-Residential Sales down \$2,468,000 and Residential Sales up \$1,402,800.
- **Other Revenues** down \$480,000 (13%)
 - a. DSM billable (customer driven) down \$370,700.
 - b. Miscellaneous revenues down \$109,000.
- **Power Supply Revenues** down \$55,000; within 1% of budget
 - a. McNeil REC revenue of \$3,944,000 compared to a budget of \$3,866,000.
 - b. Wind REC revenue of \$3,280,000 compared to a budget of \$3,222,000.
 - c. Hydro REC revenue of \$630,000 compared to a budget of \$820,000.
- **Power Supply Expenses** down \$355,000 (1.2%)
 - a. Fuel down \$422,000.
 - b. Purchased Power down \$424,000.
 - c. Transmission Fees up \$492,000.
- **Operating Expenses** up \$1,056,000 (5.6%)
 - a. June includes a pension adjustment of \$1,249,700. This is offset by various items that are less than budget primarily due to timing and proactive recissions/expense reductions.
- **Gain/Loss on Disposition of Plant** down \$98,000
 - a. Budget included asset retirements of \$196,000 for Operating and \$150,000 for McNeil. Actual includes asset retirements for Operating of \$235,800 and \$12,500 for McNeil.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of June FY21 (unaudited)

Capital Spending – June YTD (\$000's)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$1,940	\$1,940	\$1,816	94%
Other	83	83	53	64%
Transmission	1,106	1,106	1,074	97%
Distribution	2,686	2,666	1,413	53%
General	2,148	2,167	827	39%
Total	\$7,962	\$7,962	\$5,183	65%

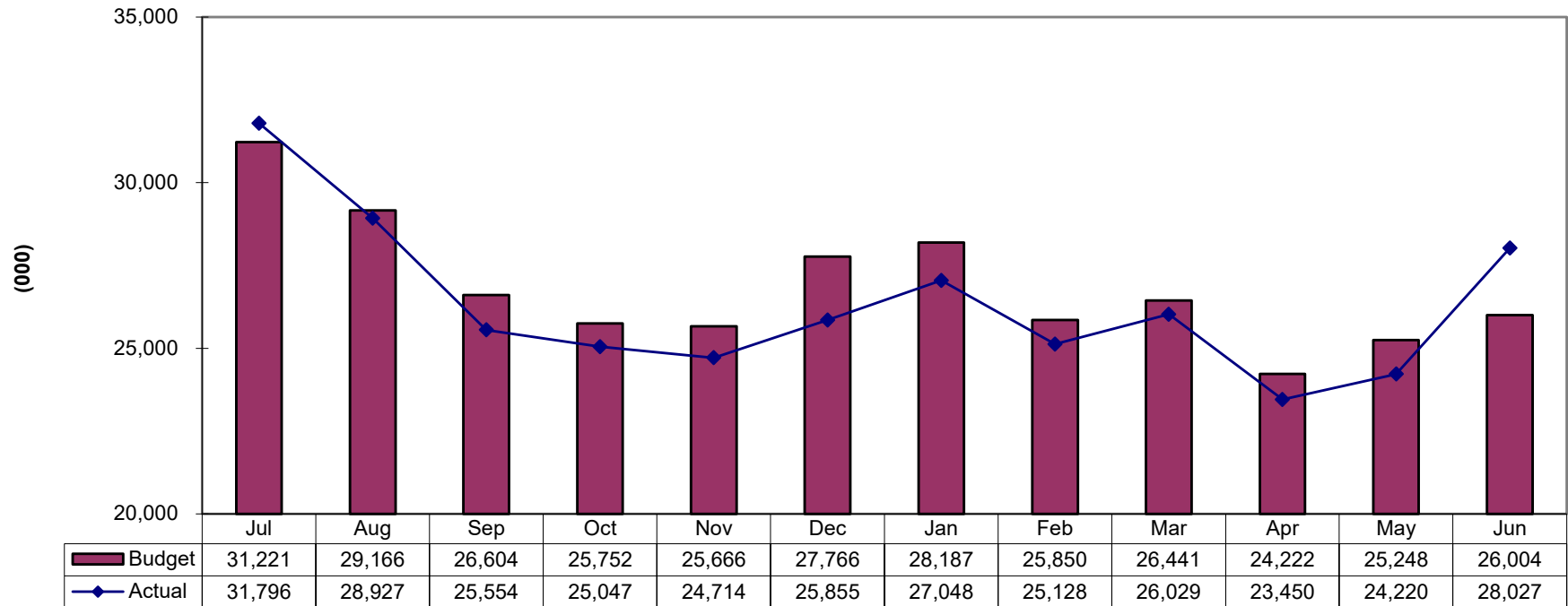
- (1) **Production** – Timing of projects at McNeil Plant; YTD expenses of \$1,130,000 compared to a budget of \$1,271,000. Offset by higher than planned Winooski One Hydro controls upgrade.
- (2) **Other** – Packetized Energy Phase 2 delayed.
- (3) **Distribution** – Timing of various projects and includes customer contribution for UVM LCOM, \$227,500.
- (4) **General** – IT Forward project was budgeted throughout the year; YTD expenses of \$508,700 compared to a budget of \$1,673,400. Data Center upgrade YTD expenses of \$210,000 vs budget of \$300,000. Vehicle replacement and other buildings and grounds projects have been delayed, \$117,000.

As of June 30, 2021 Cash and Investments	
Operating Funds	\$5,763,100
Operating Fund – CDs	\$661,400
Total Operating Fund	\$6,424,500

Credit Rating Factors – June 2021				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	4.03	3.83
Adjusted Debt Service Coverage Ratio	1.50	1.10	1.00	0.97
Cash Coverage - Days Cash on Hand	90	30	108	128

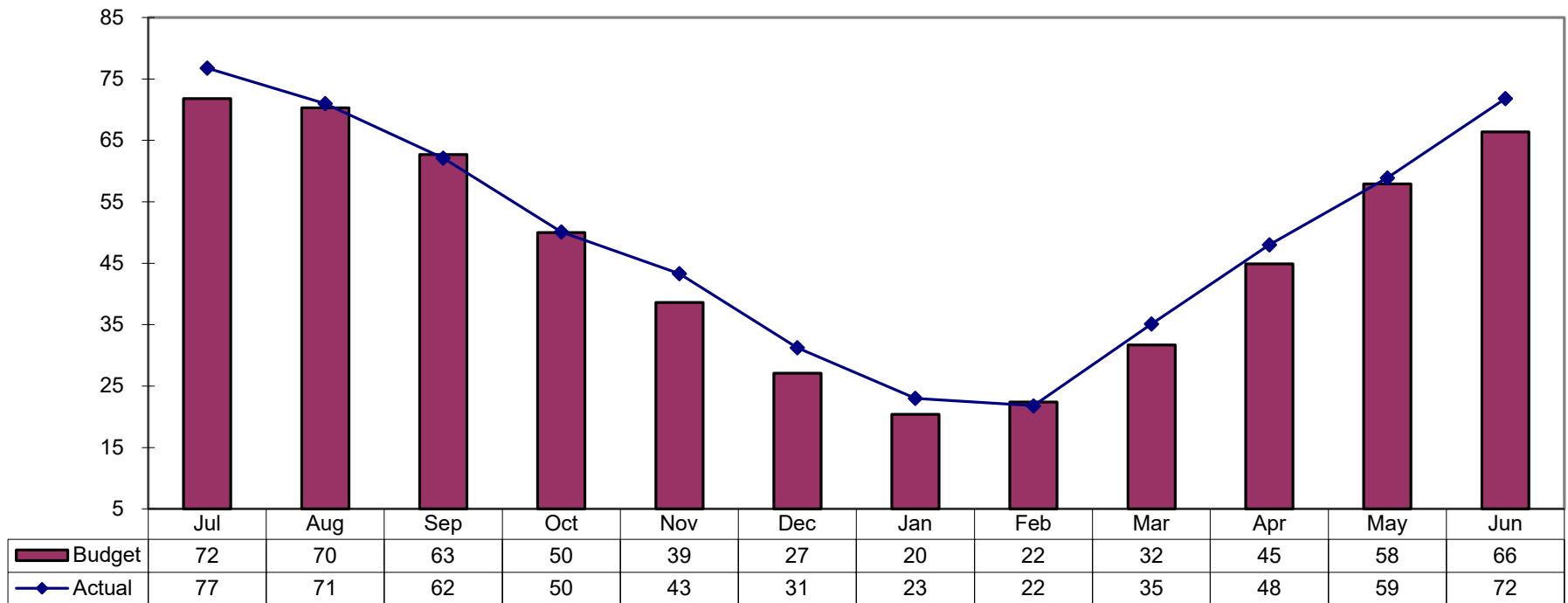
**Burlington Electric Department
Fiscal Year Ending June 30, 2021**

**Total Sales to Customers - KWH
Monthly**



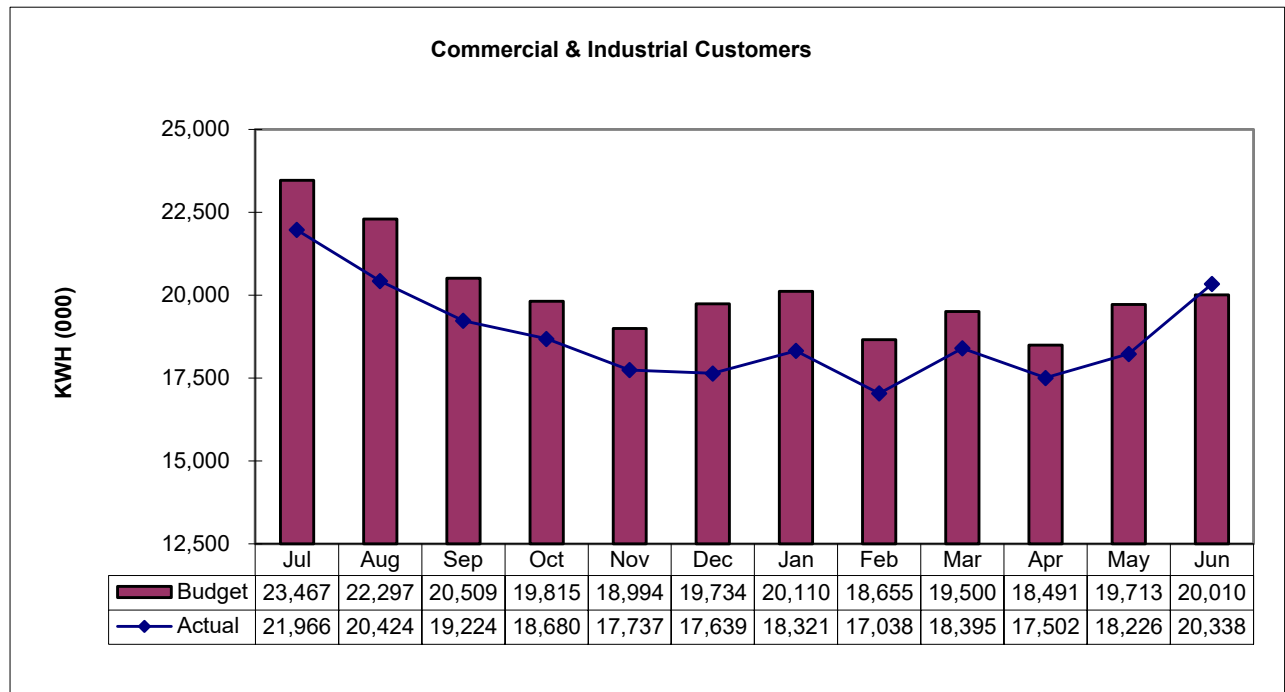
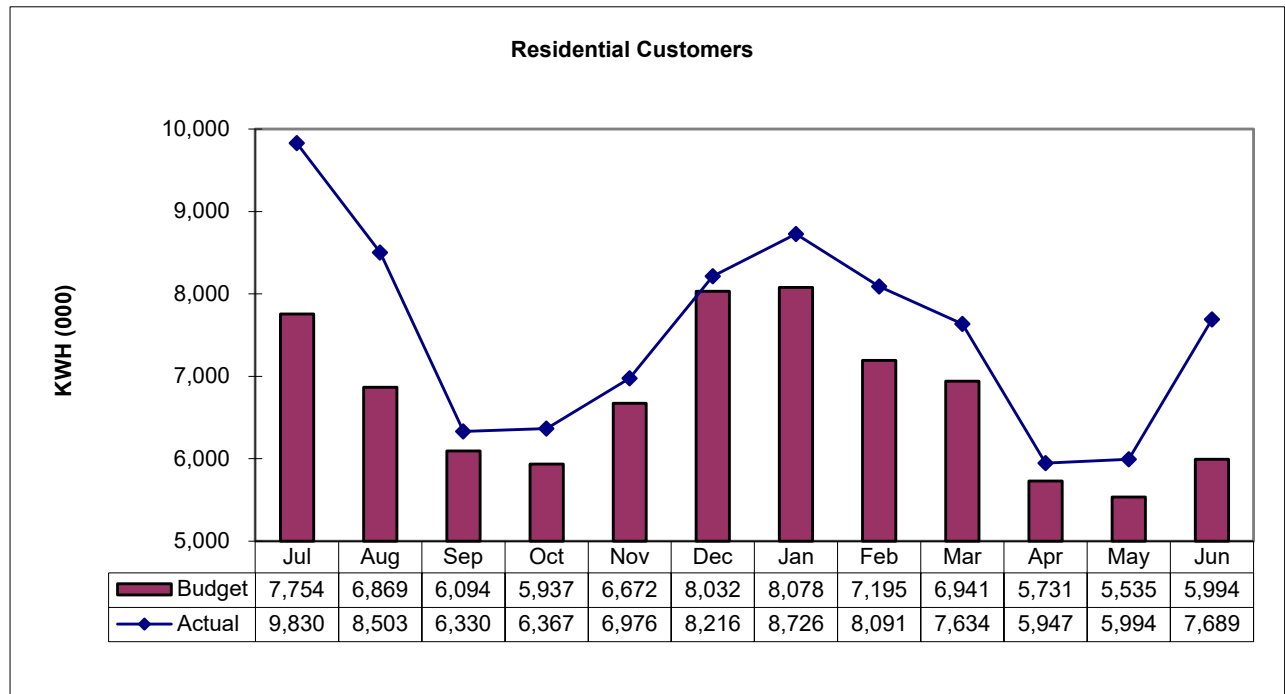
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	31,221	60,386	86,990	112,742	138,408	166,174	194,361	220,211	246,652	270,874	296,122	322,126
Actual	31,796	60,723	86,277	111,325	136,039	161,894	188,942	214,070	240,099	263,549	287,769	315,795

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



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

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



Street Lighting is included with Commercial & Industrial Customers.

Net Power Supply Costs
June - FY 2021

	(\$000)						
	Current Month				Year-to-Date		
	Budget	Actual	Variance		Budget	Actual	Variance
Expenses:							
Fuel (p. 7)	\$558	\$518	\$40	(1)	\$8,188	\$7,766	\$422 (1)
Purchased Power (p.11)	1,228	1,397	(169)	(2)	15,187	14,762	424 (2)
Transmission Fees - ISO	479	512	(32)	(3)	5,933	6,300	(367) (3)
Transmission Fees - Velco	153	102	52	(4)	1,020	983	37 (4)
Transmission Fees - Other	66	56	10	(5)	587	749	(162) (5)
Total Expenses	2,485	2,585	(99)		30,916	30,561	355
Revenues:							
Renewable Energy Certificates - McNeil	0	(7)	(7)		3,886	3,944	58
Renewable Energy Certificates - Wind	0	7	7		3,222	3,280	58
Renewable Energy Certificates - Hydro	0	0	0		820	630	(190)
Renewable Energy Certificates - Other	0	0	0		179	198	19
Total Revenues	0	0	0		8,107	8,052	(55) (6)
Net Power Supply Costs	\$2,485	\$2,585	(\$99)		\$22,809	\$22,509	\$300
Load (MWh)	26,932	26,805	(127)		331,986	323,107	(8,879)
\$/MWh	\$92.28	\$96.42	\$4.14		\$68.70	\$69.66	\$0.96

Current Month:

- (1) See detail on page 7.
(2) See detail on page 11.
(3) ISO-NE Transmission over Budget due to higher ISO-NE Transmission rates.
(4) VELCO Transmission under Budget due to lower 91 VTA Common charges.
(5) NYISO Transmission under Budget.

YTD:

- (1) See detail on page 7.
(2) See detail on page 10.
(3) ISO-NE Transmission over Budget due to higher ISO-NE Transmission rates.
(4) VELCO Transmission under Budget due to lower 91 VTA Common charges.
(5) NYISO Transmission over Budget.
(6) Under Budget due to lower Winooski One production.

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

	(\$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	359	451	(91)	(1)		5,643	5,715	(72)	(1)
Swanton Yard	43	(83)	126	(1)		521	386	135	(1)
Train Deliveries	91	72	19	(1)		1,095	928	167	(1)
Labor & Other Expenses	58	69	(10)	(2)		812	616	196	(2)
Total McNeil Fuel	<u>551</u>	<u>508</u>	<u>43</u>			<u>8,071</u>	<u>7,645</u>	<u>426</u>	
Gas Turbine	7	9	(3)	(3)		117	121	(4)	(3)
Total Fuel	<u>558</u>	<u>518</u>	<u>40</u>			<u>8,188</u>	<u>7,766</u>	<u>422</u>	

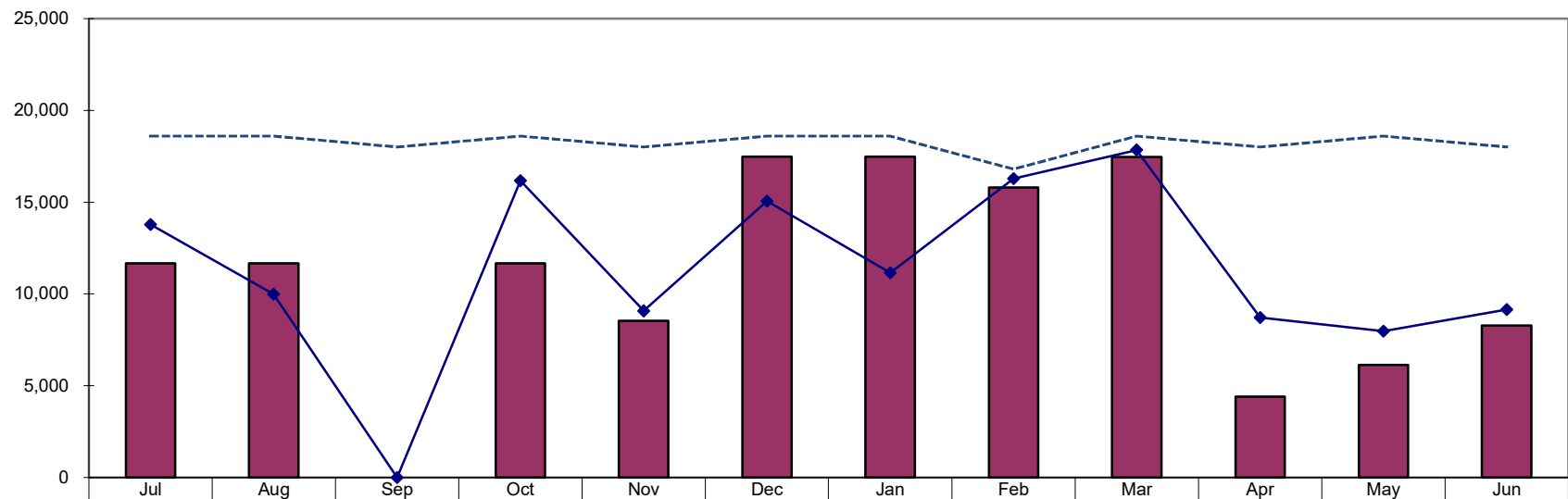
Current Month:

- (1) McNeil produced 9,151 MWh (11% over Budget); Woodchip costs (per ton) were 2% under Budget. (p. 9)
 (2) Actual labor is based on tonnage consumed by McNeil; budgeted labor is based on personnel/days in the month, thus timing issues for comparative purposes.
 (3) GT produced 33 MWh (70% over Budget).

YTD:

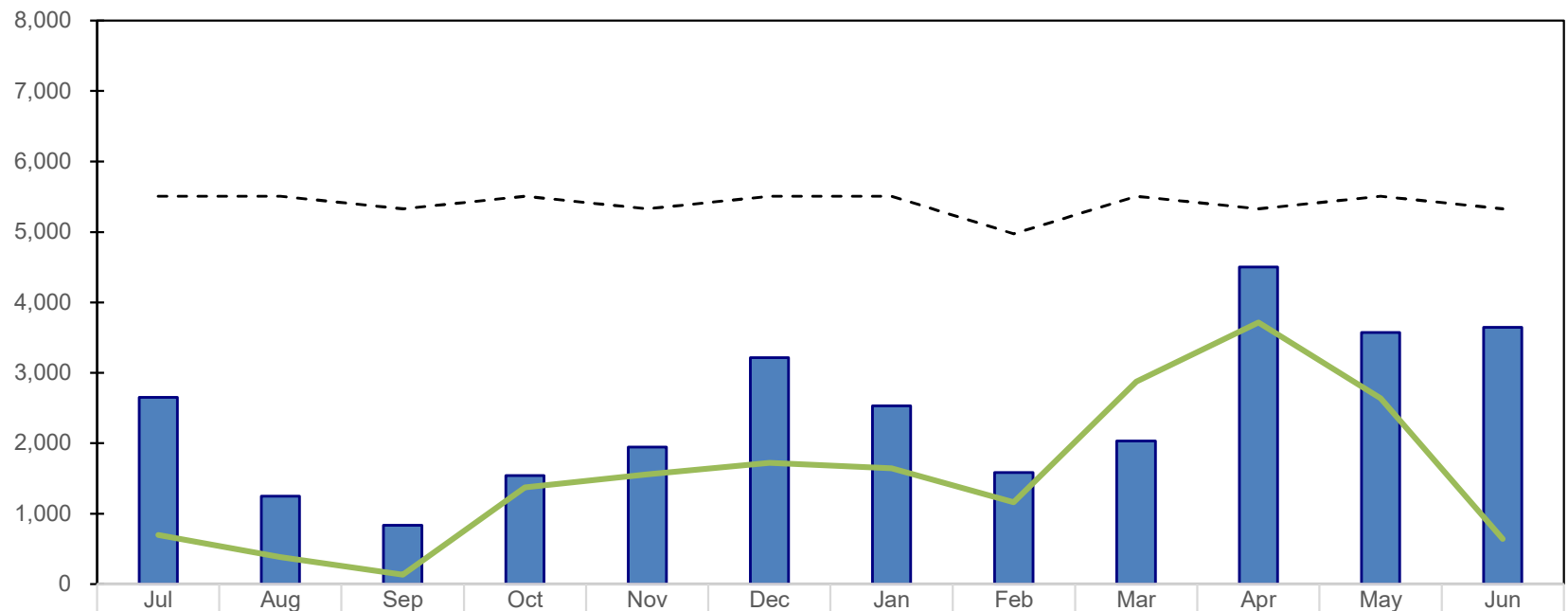
- (1) McNeil production 4% over Budget; Woodchip costs (per ton) 1% under Budget. (p. 9)
 (2) See Current Month.
 (3) GT produced 523 MWh (55% over Budget) largely due to testing of refurbished Jet A; GT Fuel price under Budget.

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



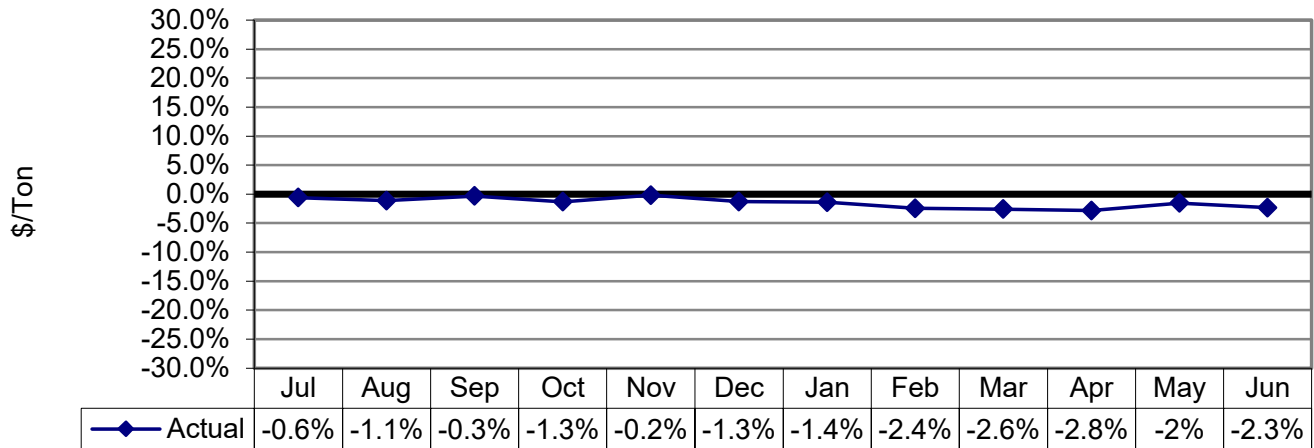
 Budget	11,656	11,656	0	11,656	8,536	17,484	17,484	15,792	17,461	4,400	6,128	8,272
 Actual	13,778	9,989	0	16,184	9,076	15,054	11,156	16,275	17,841	8,704	7,963	9,151
 Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

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

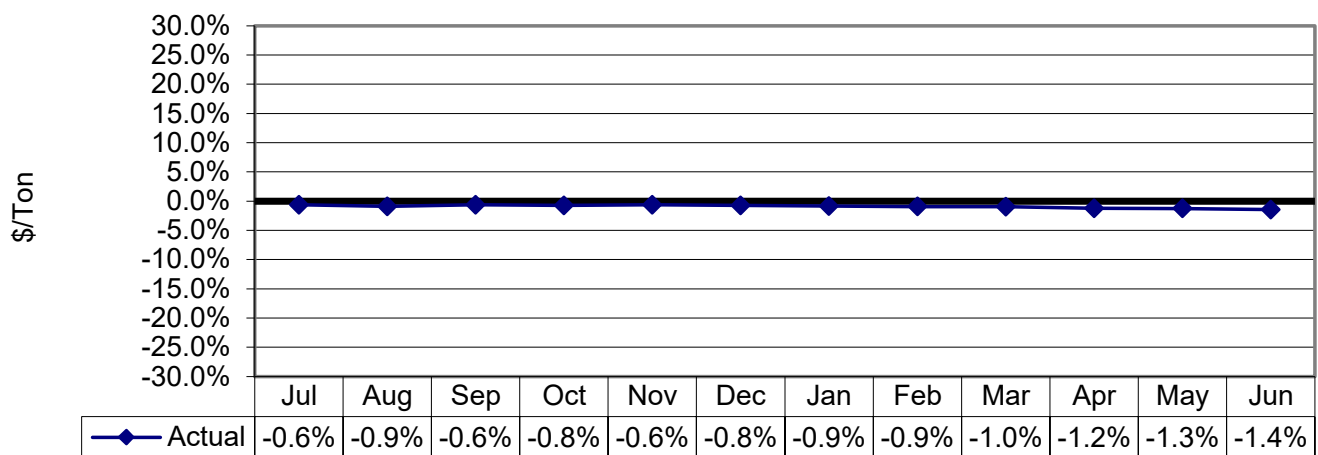


Burlington Electric Department Fiscal Year 2021

Woodchips Price Per Ton Monthly Variance



Woodchips Price Per Ton Year-to-Date Variance



* Wood only. Does not include other costs.

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

	(\$000)							
	Current Month				Year-to-Date			
	Budget	Actual	Variance		Budget	Actual	Variance	
<u>PURCHASED POWER:</u>								
Non-Energy (capacity)	126	133	(7)		1,690	1,599	91	
Energy:								
Georgia Mountain Wind	249	266	(17)	(1)	3,316	3,136	181	(1)
Hancock Wind	209	198	11	(2)	3,272	2,875	397	(2)
VT Wind	164	138	26	(3)	2,731	2,065	666	(3)
Hydro Quebec	234	219	15	(4)	2,426	2,302	124	(4)
Great River Hydro	164	163	0		1,969	1,964	5	
In City Solar Generators	96	107	(12)		842	875	(34)	
NYPA	6	9	(3)		84	103	(20)	
VEPPI	0	0	0		66	36	30	(5)
ISO Exchange	(48)	109	(158)	(5)	(2,067)	(704)	(1,363)	(6)
Velco Exchange	0	(0)	0		0	(5)	5	
Total Energy	1,074	1,210	(136)		12,639	12,647	(9)	
Ancillary Charges	(17)	(9)	(7)		(55)	(99)	45	
Miscellaneous	45	64	(19)	(6)	912	616	297	(7)
Total Purchased Power Expense	1,228	1,397	(169)		15,187	14,762	424	

Current Month:

- (1) Production 7% over Budget.
- (2) Production 1% over Budget. Rate 7% under Budget due to Financial Adjustment.
- (3) Production 16% under Budget. Lower CY21 production will result in lower REC revenues in FY22.
- (4) Rate 7% under Budget.
- (5) Wind (2%), and Winooski One (82%) production under Budget.
- (6) Includes REC replacement purchase, \$21,840.

YTD:

- (1) Production 5% under Budget.
- (2) Production 4% under Budget. Rate 8% under Budget due to Financial Adjustment.
- (3) Production 24% under Budget. Lower CY20 production resulted in lower REC revenues in FY21 and lower CY21 production will result in lower REC revenues in FY22.
- (4) Rate 5% under Budget.
- (5) Production 43% under Budget.
- (6) Wind (11%), and Winooski One (37%) production under Budget. Energy prices under budget.
- (7) REC replacement purchases under Budget.

Burlington Electric Department
Operating and Maintenance Expense by Spending Category
FY 2021 - June YTD (preliminary unaudited v.8.11)

Description	Budget	Actual	Variance	% Variance	*
Labor - Regular	7,485,410	7,835,390	(349,980)	5%	
Labor - Overtime	465,662	382,567	83,095	18%	a
Labor-Temporary	4,000	4,348	(348)	9%	
Labor - Overhead	3,180,430	4,244,351	(1,063,921)	33%	b
Outside Services	2,048,183	1,711,238	336,945	16%	c
DSM (rebates & outside services)	1,831,350	2,141,701	(310,351)	17%	d
Materials & Supplies	878,932	709,009	169,923	19%	e
Insurance	682,436	632,923	49,513	7%	
A & G Clearing	(680,481)	(356,352)	(324,129)	48%	f
Other - RPS Compliance	447,983	681,181	(233,198)	52%	
Other	2,382,233	1,795,014	587,219	25%	g
Operating and Maintenance Expense	18,726,139	19,781,370	(1,055,231)	6%	

(a) Areas lower than budget; Distribution (\$87,600), System Operations (\$8,700), W1 Hydro (\$13,100); offset by areas higher than budget; McNeil Plant, \$11,000.

(b) See page 13. June include an adjustment for pension liability, \$1,249,700.

(c) Timing and proactive recissions/expense reductions within various areas including equipment maintenance & technical at McNeil Plant (\$29,600), Winooski One Hydro (\$164,000), Distribution (\$20,000), and buildings & grounds (\$15,200).

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

(e) Timing and proactive recissions/expense reductions; McNeil Plant (\$13,400), Winooski One (\$20,300), Distribution (\$58,400) Safety (\$13,00).

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

(g) Timing: various areas are less than budget including; Training/Education (\$130,800), Building Clearing, (\$72,600), Maintenance Contracts (\$130,600), Advertising (\$36,000) and Uncollectible Accounts (\$21,000).

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

Labor - Overhead	Budget	(000's)		%	
		Actual	Variance		
Pension	\$1,318	\$1,299	\$20	1%	(a)
Medical Insurance	1,834	1,498	335	18%	(b)
Social Security Taxes	896	832	64	7%	(a)
Workers Compensation Ins.	425	352	74	17%	(b)
Dental Insurance	93	85	7	8%	(b)
Life Insurance	18	12	6	32%	(b)
	\$4,585	\$4,079	\$506	11%	

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

(a) Function of labor cost.

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

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

Net Income
FY 2021 - June (\$000)

	Ref	Current Month			Year - To - Date		
		Budget	Actual	Variance	Budget	Actual	Variance
Operating Revenues							
Sales to Customers	p.3	3,799	4,230	431	45,881	44,823	(1,059)
Other Revenues		408	283	(125) (a)	3,720	3,240	(480) (a)
Total Operating Revenues		4,207	4,513	306	49,601	48,063	(1,539)
Net Power Supply	p.6	2,485	2,585	(100)	22,809	22,509	300
Operating Expenses							
Operating and Maintenance	p.11	1,523	2,977	(1,454)	18,726	19,782	(1,056)
Depreciation & Amortization		436	449	(13)	5,231	5,330	(99)
Gain/Loss on Disp of Plant		0	20	(20) (b)	346	248	98 (b)
Revenue Taxes		41	45	(3)	532	516	16
Property Taxes Winooski One		40	40	(0)	477	479	(2)
Payment In Lieu of Taxes		226	231	(5)	2,712	2,702	10
Total Operating Expenses		2,266	3,761	(1,495)	28,024	29,058	(1,034)
Other Income and Deductions							
Interest/Investment Income		15	6	(9)	186	83	(104)
Dividends		360	393	33	4,256	4,327	70
Customer Contributions		2	4	2 (c)	1,168	648	(521) (c)
Other		5	37	32	77	628	551 (d)
Total Other Income & Deductions		382	440	58	5,689	5,685	(3)
Interest Expense		212	201	11	2,520	2,455	65
Net Income		<u>(374)</u>	<u>(1,595)</u>	<u>(1,220)</u>	<u>1,937</u>	<u>(275)</u>	<u>(2,212)</u>

Current Month:

(a) Actual includes reclass of leased light revenue from "Other" to "Sales to Customers", \$104,800. Miscellaneous revenues down \$26,000. Energy Efficiency Program cost reimbursement was higher, \$4,600.

(b) Timing; asset retirements for Operating.

(c) Budget assumed contributions for Level 2 EV chargers.

Year - To - Date:

(a) Energy Efficiency Program cost reimbursement lower than planned, \$370,700. Also, miscellaneous revenues down \$109,000.

(b) Budget included asset retirements of \$196,000 for Operating and \$150,000 for McNeil. Actual includes asset retirements for Operating of \$235,800 and \$12,500 for McNeil.

(c) Budget assumed contributions for Champlain Parkway, \$554,800, UVM OBF, \$212,800, UVM Larner College of Medicine (LCOM), \$353,200, Level 2 EV chargers, \$33,700 and UVM Athletic facility, \$8,200. Actual includes OBF, \$212,800, LCOM, \$227,400 and other billable projects.

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

**Burlington Electric Department
Capital Projects - FY21**

	\$000			
	Full Year	June (Preliminary)		
	Budget	Budget	Actual	Variance
McNeil (BED 50% Share)				
Economizer Replacement	364	364	389	(25)
Backup Boiler Feed Pump/Insurance	280	280	69	211 (a)
Boiler Gate Overhaul	200	200	280	(80) (b)
ESP Mechanical Field Rebuild	200	200	188	12
Routine Station Improvements	108	108	121	(13)
North Cooling Tower Sprinkler Replacement	38	38	24	14
DC Lube Oil Pump Contractor Upgrade/Insurance	37	37	26	11
Augers Replaced	15	15	10	5
Rooftop Fall Protection	13	13	14	(1)
Safety Valves (1.5, 2.5, 3.5, DA & Secondary)	8	8	1	7
IT Forward Upgrades (McNeil)	5	5	0	5
Other	5	5	10	(4) (c)
Total McNeil Plant	1,271	1,271	1,130	142

(a) In progress. Not all of the project is will happen this fiscal year.

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

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

Hydro Production	164	164	237	(73) (a)
-------------------------	-----	-----	-----	----------

(a) Budget includes controls upgrade, \$109,400 vs actual of \$210,400.

Gas Turbine	505	505	450	55
Total Production Plant	1,940	1,940	1,816	124

Other				
Packetized Energy Phase 2	54	54	3	51 (a)
Public Level 2 EV Charge	52	52	49	3
Public Level 2 EV Charge (CAFC)	(34)	(34)		(34)
Policy & Planning Research & Dev	10	10		10
Total Other	83	83	53	30

(a) Delayed due to COVID.

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

**Burlington Electric Department
Capital Projects - FY21**

	\$000				
	Full Year	June (Preliminary)			
	Budget	Budget	Actual	Variance	
Distribution Plant-General					
Aerial					
1L1 P2832 to P3650 Reconductor	176	176	91	85	(a)
1L1 P2824 to P2832 Reconductor	142	142	78	64	(a)
1L4 P3650 to P3131 Reconductor			53	(53)	(b)
Replace Condemned Poles	109	109	51	57	
Rebuild 3L4 Long Spans	63	63	19	45	
Rebuild 1L4 Long Spans	29	29	10	19	
Rebuild 1L4 Long Spans PH2			109	(109)	(b)
Ferguson Ave, Wells St & Richardson St RB	22	22	3	19	
Blodgett Redevelopment			28	(28)	(c)
Total Aerial	542	542	442	100	

(a) Project complete and lower than planned.

(b) New project.

(c) Prior year project.

Underground					
Airport SA02 Circuit Rebuild	428	428	256	171	(a)
Replace UG Switch (821,401,727,349,233)	215	215	167	48	(b)
Replace UG Switch (731,736,760,761)	186	186	156	29	(b)
Replace system at Living & Learning UVM	118	118	99	19	(c)
Replace UG Switch (721,722,743,702,703,705)	43	43	4	39	(d)
Replace Switch 801D with 801s			15	(15)	
Total Underground	989	989	698	291	

(a) This project is projected less than planned due to civil work much lower than estimate.

(b) Project less than planned. Switch lower than planned.

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

(d) This project was completed in FY2020. Small amount in FY21 due to finishing work.

**Burlington Electric Department
Capital Projects - FY21**

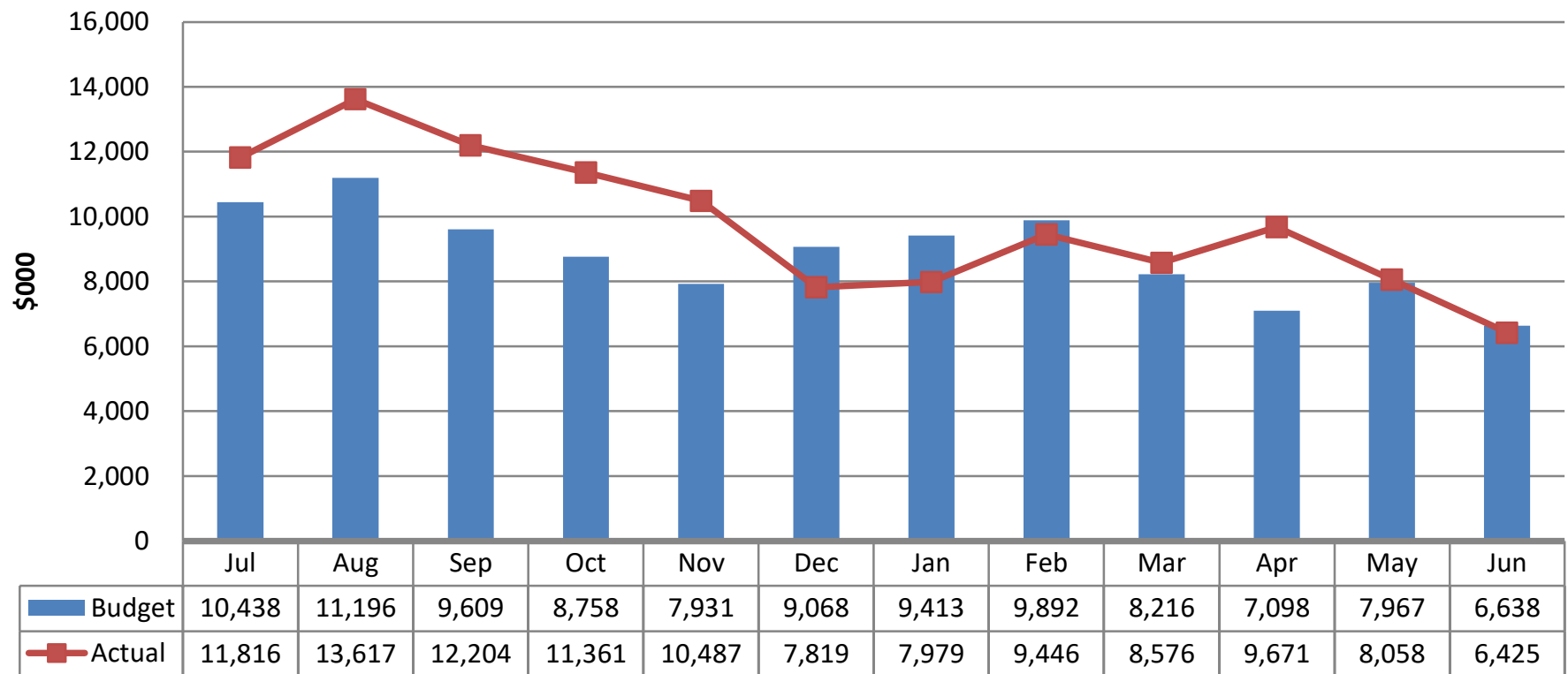
	\$000			
	Full Year	June (Preliminary)		
	Budget	Budget	Actual	Variance
Customer Driven/City Projects				
Champlain Parkway C6	620	620		620
Champlain Parkway C6 (CAFC)	(555)	(555)		(555)
UVM-Larner College of Medicine (LCOM)	353	353	46	308
UVM-Larner College of Medicine (LCOM) (CAFC)	(353)	(353)	(227)	(126)
UVM New Athletic Facility	8	8	19	(11)
UVM New Athletic Facility (CAFC)	(8)	(8)		(8)
UVM New Athletic Facility (CAFC) (OBF)	(213)	(213)	(213)	(0)
Total Underground	(148)	(148)	(375)	227
Other				
Distribution Transformers	264	264	91	173 (a)
SCADA Virtualization	98	98	74	24
Distribution System Efficiency Improvements	71	71	37	33 (b)
Replace Overloaded Transformers	54	54	18	36 (b)
Communication Equipment Emergency Repair	37	37	31	6
Backup control center -SCADA	10	10		10
Purchase Spare GT2/3 Breaker			21	(21)
Other			2	(2)
Total Other	535	535	274	261
Total Distribution Plant-General	1,918	1,918	1,039	879
<i>(a) Less than planned due to shipment delays.</i>				
<i>(b) Project less than planned.</i>				
Distribution Plant - Blanket				
Lighting	280	280	205	74
Lighting (Rebate)	(6)	(6)		(6)
Underground	186	186	217	(31)
Underground (CAFC)			(181)	181
Aerial	107	107	98	9
Aerial (CAFC)			(26)	26
Meters	94	94	30	65
Replace Corroded Vista CT's / PT's	20	20	14	6
Tools & Equipment - Distribution/Technicians	39	39	16	23
Substation Maintenance	20	20	1	19
Substation-Temperature Alarms	8	8		8
Total Distribution Plant - Blanket	748	748	374	374
Total Distribution Plant	2,666	2,666	1,413	1,253

**Burlington Electric Department
Capital Projects - FY21**

	\$000				
	Full Year Budget	June (Preliminary) Budget	Actual	Variance	
General Plant					
Computer Equipment/Software	2,018	2,018	798	1,220	(a)
Vehicle Replacement	40	40	0	40	
Buildings & Grounds	102	102	26	77	(b)
Other	6	6	3	4	(c)
Total General Plant	2,167	2,167	827	1,340	
Sub-Total Plant	<u>\$7,962</u>	<u>\$7,962</u>	<u>\$5,183</u>	<u>\$2,779</u>	
Add: CAFC* reclass to "Other Income"	1,168	1,168	648	521	
 Total Plant	 <u>\$9,130</u>	 <u>\$9,130</u>	 <u>\$5,831</u>	 <u>\$3,300</u>	

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2021 Monthly Ending Balance





*FY 2022
Financial Review
July*

September 1, 2021

Burlington Electric Department Financial Review

FY 2022

Table of Contents:

● Financial Highlights	1-2
● Revenues and Expenses	
○ KWH Sales – Total	3
○ Average Monthly Temperatures	4
○ KWH Sales – Residential & Commercial	5
○ Net Power Supply Costs	6-11
○ Operating & Maintenance Expense	12
○ Labor Overhead	13
○ Net Income	14
● Capital Spending	15 - 17
● Cash	18

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of July FY22

(\$000)	Full Yr Budget	CURRENT MONTH		
		Budget	Actual	Variance
Sales to Customers	48,172	4,510	4,120	(389)
Other Revenues	3,978	338	250	(89)
Power Supply Revenues	8,404	0	0	0
Total Operating Revenues	60,554	4,848	4,370	(478)
Power Supply Expenses	32,155	2,608	2,483	125
Operating Expense	21,543	1,923	1,587	336
Depreciation & Amortization	6,007	501	528	(28)
Gain/Loss on Disp of Plant	291	0	0	0
Taxes	3,935	329	264	65
Sub-Total Expenses	63,932	5,360	4,862	498
Operating Income	(3,378)	(512)	(492)	20
Other Income	6,588	1,165	363	(802)
Interest Expense	2,402	197	196	1
Net Income (Loss)	808	456	(325)	(781)

Year-to-Date Results:

- **Sales to Customers** down \$389,000 (8.6%). Non-Residential Sales down \$355,600 and Residential Sales, \$34,400.
- **Other Revenues** down \$88,800 (26%)
 - a. DSM billable (customer driven) down \$80,500.
- **Power Supply Expenses** down \$125,000 (5%)
 - a. Purchased Power down \$133,000.
 - b. Transmission Fees down \$31,000.
 - c. Fuel up \$39,000.
- **Taxes** down \$65,000 (20%)
 - a. Actual Payment in Lieu of Tax (PILOT) is less than budget assumption.
- **Operating Expenses** down \$336,000 (17.5%)
 - a. Various items are less than budget. This includes materials & supplies (\$33,500), DSM (rebates & outside services) (\$60,000), transportation clearing (\$28,200), building Clearing, (\$16,700), maintenance (\$18,000) and uncollectible accounts (\$9,600). Offset by higher expense due to the credit for A&G (“Admin and General Expenses”) charged to Capital projects was less than planned, \$29,600.
- **Other Income** down \$802,000 (69%)
 - a. Budget assumed \$750,000 of ARPA funds in July and customer contributions for Shelburne Road roundabout relocation, \$30K.

FINANCIAL HIGHLIGHTS – BUDGET VS ACTUAL as of July FY22

Capital Spending – July YTD (\$000's)				
Plant Type	Full Yr. Budget	Budget	Actual	% Spent
Production	\$1,017	\$107	\$18	2%
Other	192	19	0	0%
Transmission	1,150	0	0	0%
Distribution	3,577	98	136	4%
General	2,034	213	62	3%
Total	\$7,970	\$437	\$215	3%

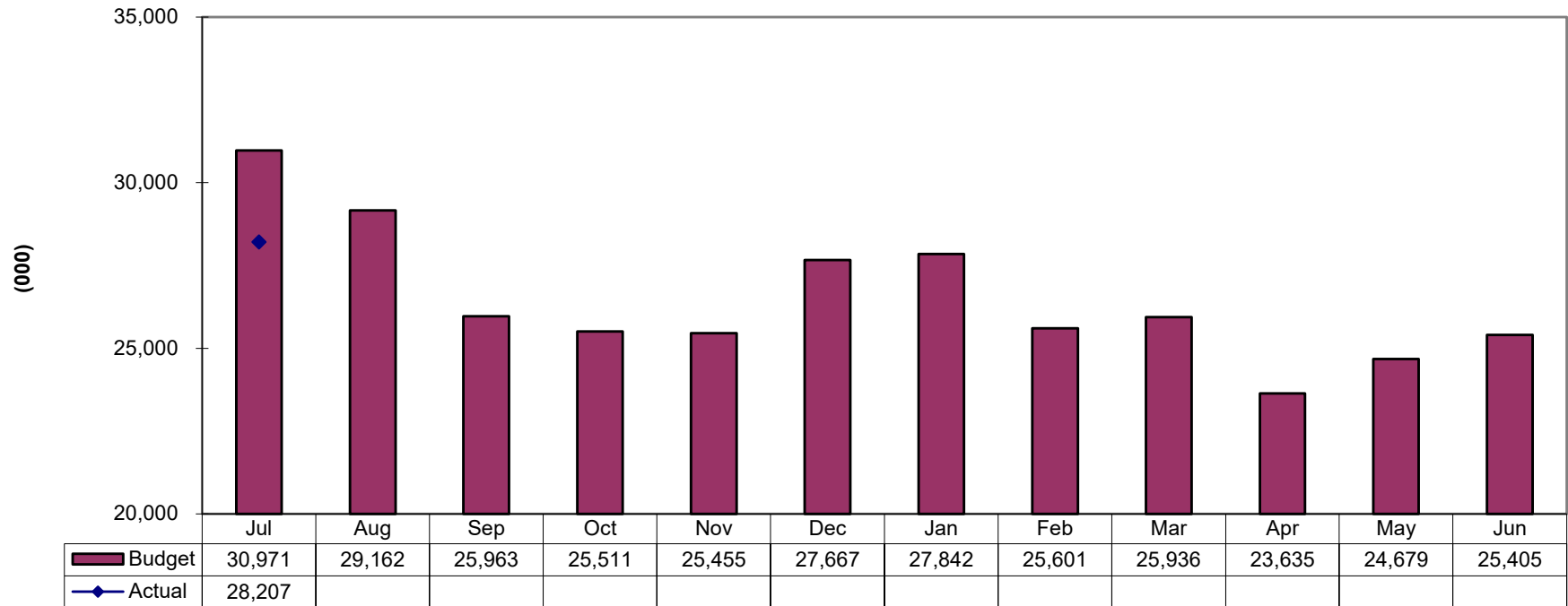
- (1) **Production** – Timing of projects at the Gas Turbine, \$75,000. Budget assumed outstanding A Jet items in July.
- (2) **Other** – Timing; budget includes Level 2 & 3 chargers, Packetized Energy, and research & development.
- (3) **Distribution** – Timing of various projects.
- (4) **General** – IT Forward project was budgeted throughout the year; YTD expenses of \$56,900 compared to a budget of \$102,500. Pole mount routers YTD expenses of \$0 vs budget of \$33,800. Assumed Electric Bucket Truck replacement in July, \$165,000. Delivery has been delayed until July 2022.

As of July 31, 2021 Cash and Investments	
Operating Funds	\$6,192,800
Operating Fund – CDs	\$659,900
Total Operating Fund	\$6,852,700

Credit Rating Factors – July 2022				
	"A"	"Baa"	Current	3 Year Average
Debt Service Coverage Ratio	1.25	1.25	3.91	3.79
Adjusted Debt Service Coverage Ratio	1.50	1.10	.96	0.95
Cash Coverage - Days Cash on Hand	90	30	116	128

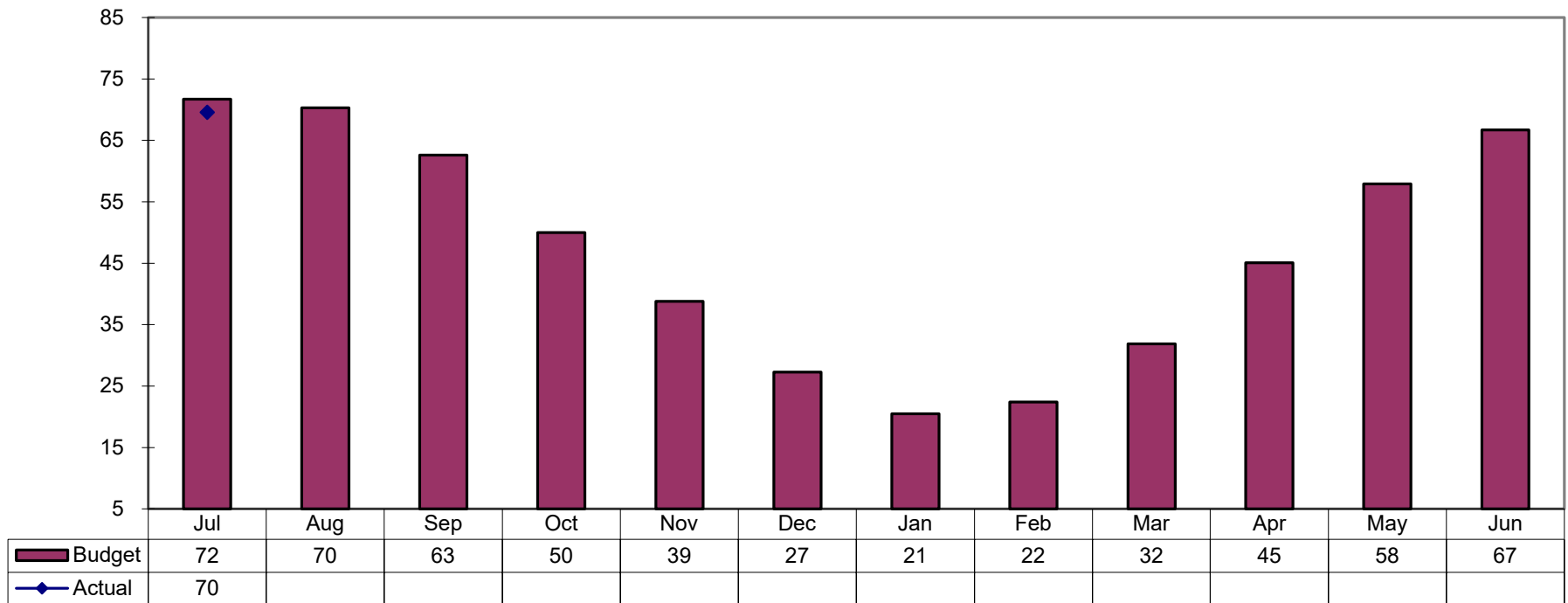
**Burlington Electric Department
Fiscal Year Ending June 30, 2022**

**Total Sales to Customers - KWH
Monthly**



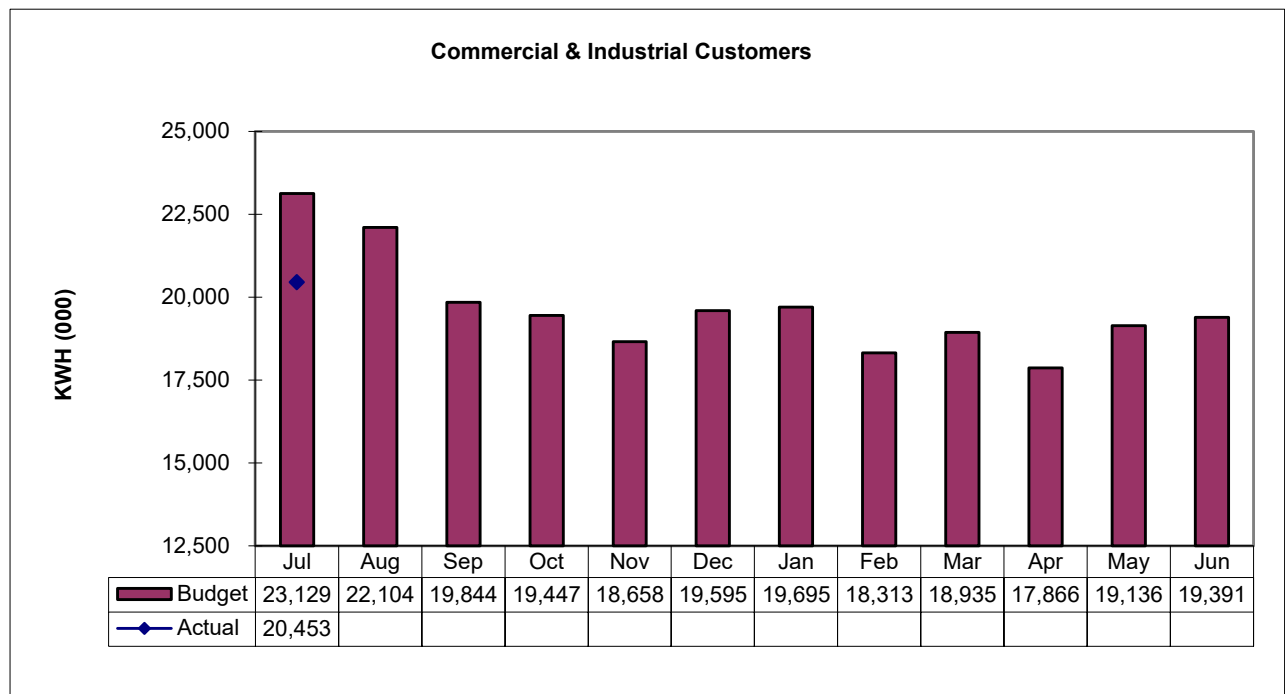
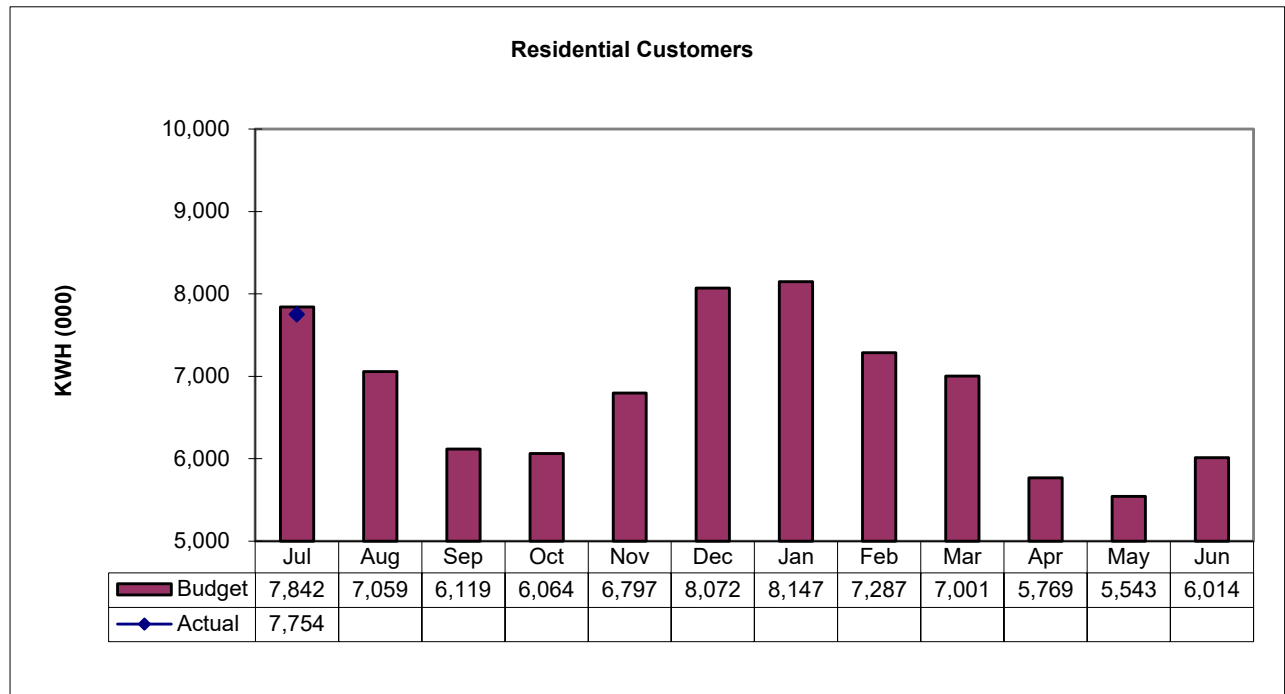
KWH Sales to Customers (YTD)												
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Budget	30,971	60,134	86,097	111,608	137,063	164,730	192,571	218,172	244,108	267,743	292,422	317,827
Actual	28,207											

**Burlington Electric Department
Fiscal Year Ending June 30, 2022
Average Monthly Temperatures - Burlington**



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

**Burlington Electric Department
Fiscal Year Ending June 30, 2022
KWH Sales**



Street Lighting is included with Commercial & Industrial Customers.

Net Power Supply Costs
July - FY 2022

	(\$000)		
	Current Month		
	Budget	Actual	Variance
Expenses:			
Fuel (p. 7)	\$746	\$784	(\$39) (1)
Purchased Power (p. 11)	1,201	1,069	133 (2)
Transmission Fees - ISO	522	703	(181) (3)
Transmission Fees - Velco	85	(112)	197 (4)
Transmission Fees - Other	54	39	14 (5)
Total Expenses	2,608	2,483	125
Revenues:			
Renewable Energy Certificates - McNeil	0	0	0
Renewable Energy Certificates - Wind	0	0	0
Renewable Energy Certificates - Hydro	0	0	0
Renewable Energy Certificates - Other	0	0	0
Total Revenues	0	0	0
Net Power Supply Costs	\$2,608	\$2,483	\$125
Load (MWh)	31,527	29,281	(2,246)
\$/MWh	\$82.72	\$84.79	\$2.08

Current Month:

(1) See detail on page 7.

(2) See detail on page 11.

(3) ISO-NE Transmission over Budget due to higher ISO-NE Transmission rates.

(4) VELCO Transmission under budget due to VELCO receiving higher than projected ISO-NE transmission revenues.

(5) NYISO Transmission over Budget.

**Net Power Supply Costs
July - FY 2022**

	(\$000)		
	Current Month		
	Budget	Actual	Variance
<u>FUEL:</u>			
McNeil:			
Fuel Consumed	505	553	(48) (1)
Swanton Yard	44	65	(21) (1)
Train Deliveries	90	89	1 (1)
Labor & Other Expenses	95	53	42 (2)
Total McNeil Fuel	<u>734</u>	<u>760</u>	<u>(26)</u>
Gas Turbine	11	24	(12) (3)
Total Fuel	<u><u>746</u></u>	<u><u>784</u></u>	<u><u>(39)</u></u>

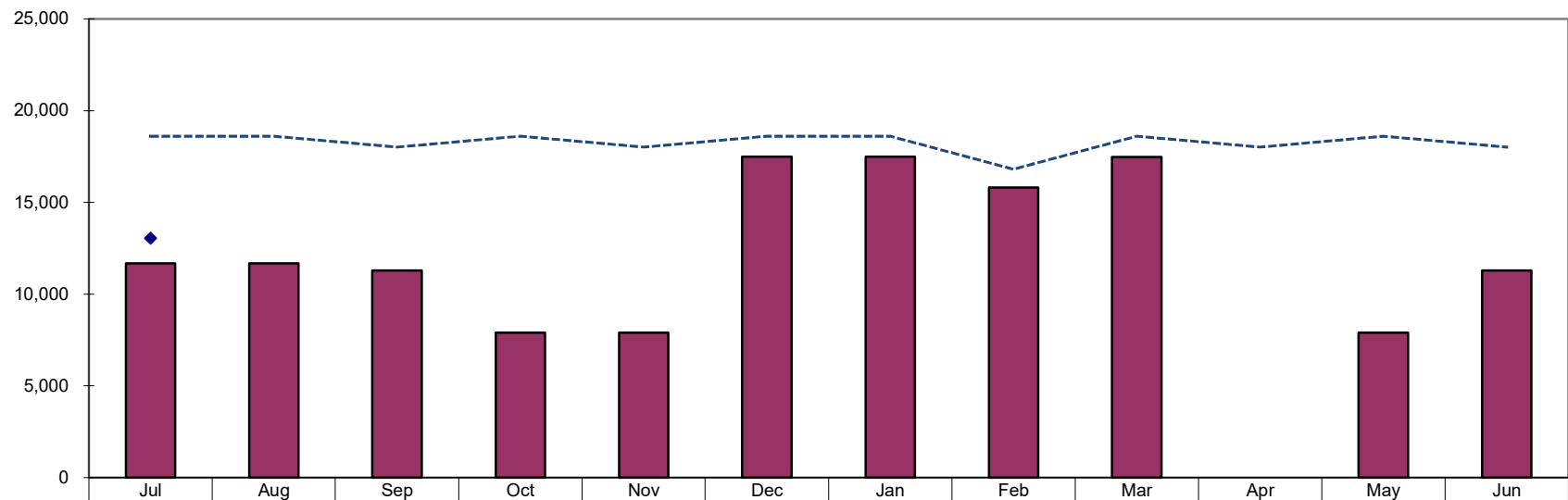
Current Month:

(1) McNeil produced 13,047 MWh (12% over Budget); Woodchip costs (per ton) were 2% under Budget. (p. 9)

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

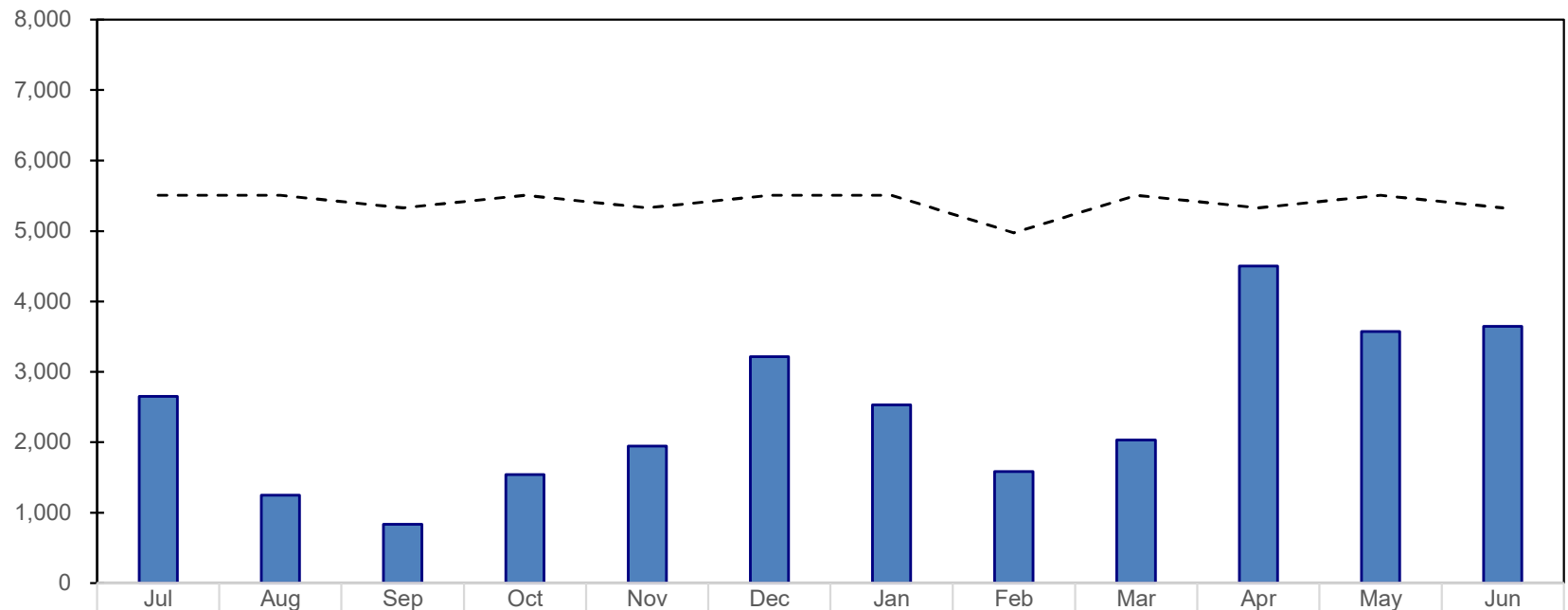
(3) GT produced 87 MWh (131% over Budget).

**Burlington Electric Department
McNeil Plant - MWH Production (50%)
FY 2022**



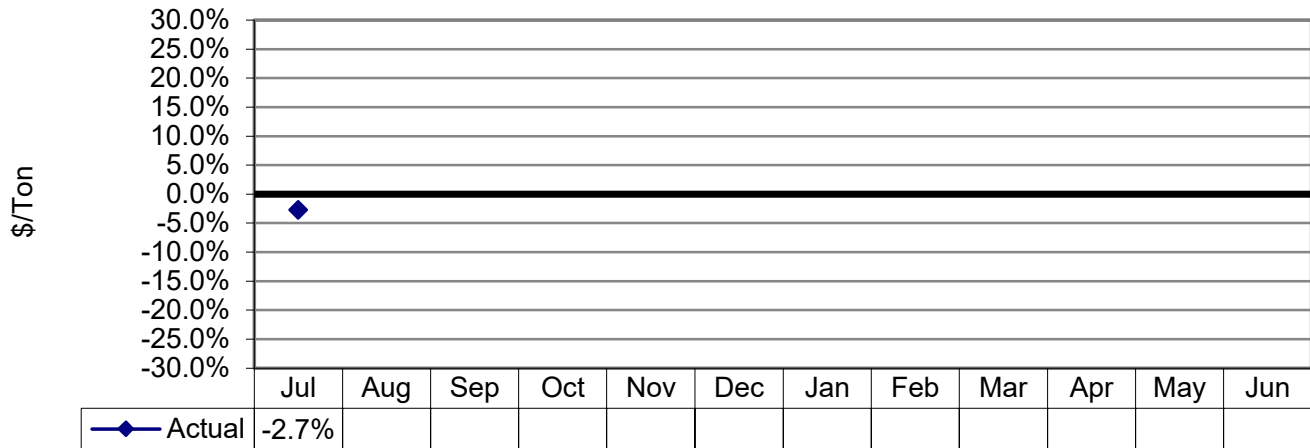
 Budget	11,656	11,656	11,280	7,896	7,896	17,484	17,484	15,792	17,461	0	7,896	11,280
 Actual	13,047											
 Maximum	18,600	18,600	18,000	18,600	18,000	18,600	18,600	16,800	18,600	18,000	18,600	18,000

**Burlington Electric Department
Winooski One - MWH Production
FY 2022**

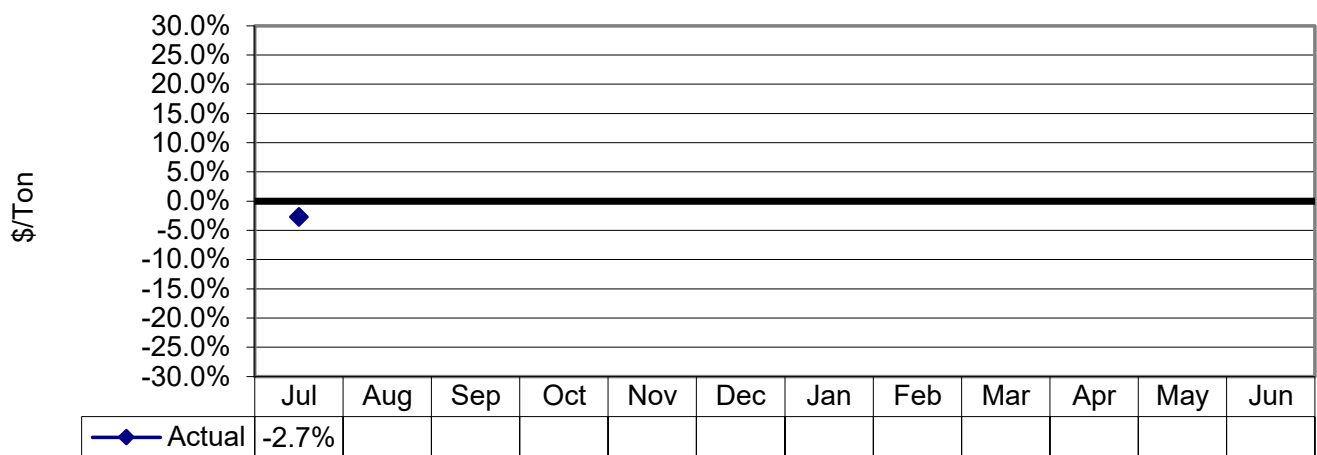


Burlington Electric Department Fiscal Year 2022

Woodchips Price Per Ton Monthly Variance



Woodchips Price Per Ton Year-to-Date Variance



* Wood only. Does not include other costs.

**Net Power Supply Costs
July - FY 2022**

	(\$000)		
	Current Month		
	Budget	Actual	Variance
<u>PURCHASED POWER:</u>			
Non-Energy (capacity)	128	148	(20)
Energy:			
Georgia Mountain Wind	225	114	111 (1)
Hancock Wind	164	133	31 (2)
VT Wind	131	108	23 (3)
Hydro Quebec	226	226	0
Great River Hydro	169	169	0
In City Solar Generators	114	91	24
NYPA	6	9	(3)
ISO Exchange	(6)	11	(16) (4)
Velco Exchange	0	(0)	0
Total Energy	1,029	860	170
Ancillary Charges	(3)	(11)	8
Miscellaneous	47	72	(25)
Total Purchased Power Expense	<u>1,201</u>	<u>1,069</u>	<u>133</u>

Current Month:

(1) Production 49% under Budget (one turbine out until Fall). Lower CY21 production will result in lower REC revenues later in FY22.

(2) Production 15% under Budget. Rate 4% under Budget due to Financial Adjustment. Lower CY21 production will result in lower REC revenues later in FY22.

(3) Production 17% under Budget (researching reason). Lower CY21 production will result in lower REC revenues later in FY22.

(4) Production for Wind and Winooski One under Budget, McNeil production was 12% above Budget.

Burlington Electric Department
Operating and Maintenance Expense by Spending Category
FY 2022 - July YTD

Description	Budget	Actual	Variance	% Variance	*
Labor-Regular	662,742	671,569	(8,827)	1%	
Labor-Overtime	39,523	41,361	(1,838)	5%	
Labor-Temporary	4,500	0	4,500	100%	a
Labor-Overhead	252,535	294,357	(41,822)	17%	b
Outside Services	249,787	77,463	172,324	69%	c
DSM (rebates & outside services)	197,246	137,020	60,226	31%	d
Materials & Supplies	113,314	79,810	33,504	30%	e
Insurance	58,976	53,599	5,377	9%	
A & G Clearing	(51,749)	(22,133)	(29,616)	57%	f
Other - RPS Compliance	61,418	145,545	(84,127)	137%	
Other	334,454	108,375	226,079	68%	g
Operating and Maintenance Expense	1,922,746	1,586,966	335,780	17%	

(a) Policy & Planning assumed intern positions in July.

(b) See page 13.

(c) Timing of various items; Triennial Consulting Engineer's Report, \$26,300, other items at GT & W1, \$17,800, annual audit, \$29,600 and assumed DPS billback expense due to rate case, \$33,000.

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

(e) Timing; McNeil Plant (\$17,300), Distribution (\$29,300) Safety (\$7,100).

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

(g) Timing: various areas are less than budget including; Transportation Clearing (\$28,200), Building Clearing, (\$16,700), Maintenance (\$18,000) and Uncollectible Accounts (\$9,600).

**Burlington Electric Department
Budget vs Actual Spending Analysis
FY 2022 - July YTD**

Labor - Overhead	(000's)				
	Budget	Actual	Variance	%	
Pension	\$127	\$125	\$2	2%	(a)
Medical Insurance	125	154	(29)	-23%	(b)
Social Security Taxes	79	76	3	4%	(a)
Workers Compensation Ins.	29	29	(0)	-1%	(b)
Dental Insurance	8	9	(1)	-17%	(b)
Life Insurance	2	2	0	4%	(b)
	\$368	\$394	(\$26)	-7%	

Rates Table:	Budget
<i>Pension</i>	13.11%
<i>Social Security</i>	7.65%

(a) Function of labor cost.

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

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

Net Income
FY 2022 - July (\$000)

		Current Month		
	Ref	Budget	Actual	Variance
Operating Revenues				
Sales to Customers	p.3	4,510	4,120	(389)
Other Revenues		338	250	(89) (a)
Total Operating Revenues		4,848	4,370	(478)
Net Power Supply	p.6	2,608	2,483	125
Operating Expenses				
Operating and Maintenance	p.11	1,923	1,587	336
Depreciation & Amortization		501	528	(28)
Gain/Loss on Disp of Plant		0	0	0
Revenue Taxes		48	43	5
Property Taxes Winooski One		42	41	1
Payment In Lieu of Taxes		239	180	59 (b)
Total Operating Expenses		2,752	2,379	373
Other Income and Deductions				
Interest/Investment Income		5	5	0
Dividends		360	360	0
Customer Contributions/Grants		781	0	(781) (c)
Other		19	(3)	(22)
Total Other Income & Deductions		1,165	363	(802)
Interest Expense		197	196	1
Net Income		456	(325)	(781)

Current Month:

(a) Energy Efficiency Program cost reimbursement was less than planned, \$80,500.

(b) Actual is less than budget assumption.

(c) Budget assumed \$750K of ARPA funds in July and customer contributions for Shelburne Road roundabout relocation, \$30K.

**Burlington Electric Department
Capital Projects - FY22**

	\$000			
	Full Year Budget	Budget	July Actual	Variance
McNeil (BED 50% Share)				
ESP Mechanical Field Rebuild	225			0
Routine Station Improvements	107	21	0	21
Backup Boiler Feed Pump/Insurance	103		16	(16)
Turbine Control System Upgrade/Insurance	37			0
Augers Replaced	30			0
Elevator Geared Equipment & Controls	25			0
Turbine Extraction Valve Actuators	20			0
Belt Fire Suppression/Insurance	17			0
Cooling Tower Fill Drift Eliminators	15			0
Disc Screen	15			0
Chemical Feed Pump Replacement/Upgrade	15			0
ESP Wire Replacement	13			0
Safety Valve Replacements	12			0
GSU Transformer	11	3		3
Analyzer Upgrades for Chemical Treatment	9			0
Char Ash Conveyor	10			0
Station Tools & Tool Boxes	7			0
DC Lube Oil Pump Contractor Upgrade/Insurance			2	(2)
Other	24	1		1 (a)
Total McNeil Plant	697	25	18	7
 Hydro Production	 221	 7	 0	 7
 Gas Turbine	 98	 75	 0	 75
 Total Production Plant	 1,017	 107	 18	 89
 Other				
Direct Current Fast Charger (Level 3)	85	9		9
Packetized Energy	52	5		5
Public Level 2 EV Charge	33	3		3
Policy & Planning Research & Dev	21	2		2
Total Other	192	19	0	19
 Transmission Plant				
VT Transco Investment	1,150			0
Total Transmission Plant	1,150	0	0	0

**Burlington Electric Department
Capital Projects - FY22**

	\$000			
	Full Year Budget	Budget	July Actual	Variance
Distribution Plant-General				
Aerial				
Scarff Avenue Rebuild	701		1	(1)
Appletree Point Rebuild	258	13		13
1L4 P3149 to P3169 Reconductor	162			0
1L4 P3132 to P3149 Reconductor	140		19	(19)
Replace Condemned Poles	118		0	(0)
Replace Recloser 252R	48			0
227S Automation	47	24		24
Ferguson Ave, Wells St			0	(0)
Rebuild 3L4 Long Spans			1	(1)
Rebuild 1L4 Long Spans PH2			8	(8)
Total Aerial	1,474	36	29	8
Underground				
Replace Switch (756,757,758,730-Battery/Pearl St)	204		1	(1)
Replace Switch (303,307,308,309-Main/S Prospect)	137		0	(0)
Replace UG Switch (821,401,727,349,233)			35	(35)
Replace UG Switch (731,736,760,761)			16	(16)
Total Underground	341	0	52	(52)
Customer Driven/City Projects				
Champlain Parkway C6	644			0
Champlain Parkway C6 (CAFC)	(608)			0
UVM LCOM Project (Larner College of Medicine)	391		3	(3)
UVM LCOM Project (CAFC)	(116)			0
UVM Athletic Facility	101	10	5	5
Shelburne St Roundabout Relocation	630	32	1	31
Shelburne St Roundabout Relocation (CAFC)	(617)	(31)		(31)
Total Underground	425	11	9	2
Other				
SCADA Networking Upgrade/Firewall Replacement	296	15		15
Distribution Transformers-Purchase	190			0
SCADA Network Switches Replacement	98			0
Field Device Network Upgrades	67			0
Communication Equipment Emergency Repair	27			0
Distribution Transformers-Install	4		0	(0)
SCADA Servers Virtualization	0		6	(6)
Replace Overloaded Tranformers	0		1	(1)
Other				0
Total Other	682	15	7	8
Total Distribution Plant-General	2,922	62	97	(35)

**Burlington Electric Department
Capital Projects - FY22**

	\$000			
	Full Year Budget	Budget	July Actual	Variance
Distribution Plant - Blanket				
Lighting	159	1	29	(28)
Lighting (Rebate)	(6)			0
Underground	194	22	8	14
Aerial	106	9	1	8
Meters	125	2	1	1
Gas Detectors	4			0
Tools & Equipment - Distribution/Technicians	30	3	1	2
Substation Maintenance	16			0
Replace Corroded Vista CT's/PT's	20		0	(0)
Substation-Temperature Alarms	8			0
Total Distribution Plant - Blanket	655	36	39	(3)
 Total Distribution Plant	 3,577	 98	 136	 (38)
 General Plant				
Computer Equipment/Software	1,806	161	57	104 (a)
Vehicle Replacement	165	17		17 (b)
Buildings & Grounds	55	33	5	28 (c)
Other	8	3		3 (d)
Total General Plant	2,034	213	62	151
 Sub-Total Plant	 \$7,970	 \$437	 \$215	 \$221
 Add: CAFC* reclass to "Other Income"	 1,346	 31	 0	 31
 Total Plant	 \$9,316	 \$468	 \$215	 \$252

* Customer Advances (Contributions) for Construction.

Operating Cash - FY 2022 Monthly Ending Balance

