



**Date:** January 15, 2025  
**To:** Municipal Light Board: Warren Leon (Chair), John Dalton (Clerk), Brian Foulds, and Bianca Taylor  
**From:** Jason Bulger, CMLP Director  
**Subject:** Agenda for virtual Light Board meeting on **Wednesday, Jan. 22, 2024, at 7:30 A.M.** (link below)

- 7:30 AM 1. **Call to Order**
- 7:30 AM 2. **Meetings and Minutes** 5 Minutes Chair  
• Vote to approve the minutes of December 4, 2024 and January 8, 2025.  
Upcoming Meetings:  
Feb 12, 2025; Mar 12, 2025; Apr 9, 2025; May 14, 2025; Jun 11, 2025; Jul 9, 2025
- 7:35 AM 3. **Solar bill print information** 30 Minutes Chair Discuss/Vote  
Background: In order to come to a decision on the bill print details, the Board needs to discuss solar customers and whether or not those customers' participation in Time-of-Use rates will necessitate the breakout or inclusion of additional information.  
Purpose: Discuss solar net metering and solar elements of bill print strictly as it relates to what elements will appear on customer bills in the new Time-of-Use rates. A vote may be taken.
- 8:05 AM 4. **Time of Use Bill printing information & vote** 30 Minutes Chair Discuss/Vote  
Background: Current bills break out Capacity/Transmission, Distribution, and Energy charges as well as other charges. With time-of-use rates, the bill layout will need to change.  
Purpose: CMLP staff would like to get a sense for how the Board wants the bills to look. We will build on the previous discussion and share the feedback we received from Board members since the last meeting. A vote may be taken.
- 8:35 AM 5. **Alt. sources of non-carbon emitting energy** 20 Minutes Asst. Director Discussion  
Background: Recent solar and wind contracts have been abandoned by developers due to market forces drastically increasing the value and cost of the projects. This is leaving holes in our power portfolio.  
Purpose: Staff would like to present some alternatives and get feedback from the Board on what types of programs staff should pursue.
- 8:55 AM 6. **Liaison & Public Comments** 5 Minutes Chair Information
- 9:00 AM 7. **Adjourn**



# CONCORD MUNICIPAL LIGHT PLANT

ELECTRIC | BROADBAND | ENERGY MANAGEMENT

## Distribution: Select Board (1 copy)

Kerry Lafleur

Jan Aceti

Jason Bulger

Carole Hilton

Laura Scott

Karlen Reed

Joe Repoff

Jeff Cosgrove

Michael Hale

Eric Simms

Cameron McKennitt

## Join Zoom Meeting

<https://us02web.zoom.us/j/87378412042?pwd=2aRyVb8KdVBiJmoLWOaZePYrHoxSui.1>

Meeting ID: 873 7841 2042

Passcode: 455905

## One tap mobile

+13092053325,,87378412042#,,,,\*455905# US

+13126266799,,87378412042#,,,,\*455905# US (Chicago)

## Link to view recordings of previous Light Board Meetings:

<https://www.youtube.com/playlist?list=PL1TTzrWEKOOOn0RIJ2MdE2SnNZMWYeoat>

## Link to view the Director's Updates (in meeting packets):

<https://concordma.gov/1106/Municipal-Light-Board>

## Link to view the Broadband Monthly Updates:

<https://www.concordma.gov/3148/Monthly-Updates>

Concord Municipal Light Board Minutes  
December 4, 2024

Draft

Pursuant to a notice duly filed with the Town Clerk, a meeting of the Municipal Light Board was held on Wednesday December 4, 2024, at 7:30 AM, via a Zoom Webinar. Present were Board Members: Warren Leon (Chair), Brian Foulds, John Dalton, and Bianca Taylor. Also in attendance were Jason Bulger, CMLP Director; Carole Hilton, CMLP Customer Service Manager; Laura Scott, Assistant Director of Power Supply and Energy Management; Joe Repoff, CMLP Assistant Director; Kerry Lafluer, Town Manager; Karin Farrow, CMLP Office Administrator; Eric Simms, Sustainability Director; Cameron McKennitt, Select Board liaison to CMLP; residents, Karlen Reed, Pamela Dritt, Peter Fandel, Bob Birkett, Rob Lacey, Evan Ricker, Halvor Iverson, Josh Galper, Laura LeVan, Mark Rubman, Peggy Wargelin, Fannie Rogal, Gary Kleiman, Linda Chin, Sanford Feman, Scott Hopkinson, Shelly Peterson and Andy Puchrik; non-residents Dakota Antelman and Josh Cook.

Note definitions for acronyms used in these minutes:

- **CMLP: Concord Municipal Light**
- **ETS: Electric Thermal Storage**
- **TOU – Time-of-Use**

#### **CALL TO ORDER**

Mr. Leon called the meeting to order at 7:30 AM. Meeting recording will be posted to the Minuteman Media Website as soon as it is available.<sup>1</sup>

#### **MEETINGS & MINUTES**

Upcoming Meeting Dates: December 11, 2024\*; January 8, 2025; February 12, 2025; March 12, 2025.

\*This is a placeholder, if needed, for rate adoption.

**Mr. Foulds moved to approve the November 15, 2024 minutes, as last distributed. Ms. Taylor provided the second and with a unanimous vote, the minutes were approved.**

**DIRECTORS UPDATE** presented by Jason Bulger (2:53)

- CMLP held its annual inventory preview and counting the week of Thanksgiving.
- Eric Simms, the Sustainability Director, is holding another Sustainability Roundtable at 6:30pm on December 11, 2024 in the Goodwin Forum at the main library branch (with a Zoom option as well). CMLP will be making a presentation to the group to report on its climate impacting programs.
- Earlier this our Netwatch security service went live in early November. We have two-way speakers installed at all substation locations, and the service has already been used to advise people to keep clear of the buildings multiple times.
- CMLP met with the School Superintendent and others to discuss the solar/battery project and plan next steps. The CMLP Director will attend a joint School Committee meeting in December to provide updates and discuss the site license.
- The holiday tree lighting takes place on Sunday, December 1, 2024. CMLP procured the lighting and assisted with the installation of the lights.

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<sup>1</sup> Minuteman Media YouTube Link: <https://www.youtube.com/watch?v=5fFtc7sCPLQ>

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- We are in the DPU Winter Moratorium on disconnecting residential customers' electricity through April 15, 2025. We will continue collections efforts up to the point of disconnections for residential customers, but we can cut off service to commercial electric or Broadband customers with past due balances.

**CMLP 2025 OPERATING FORECAST** presented by Jason Bulger/Laura Scott (7:49)

- Mr. Leon explained that the Board was generally supportive of the forecast as presented at the last meeting, and reminded attendees that they had a few questions before taking a formal vote.
- Mr. Bulger explained that a new draft has been presented and included in the packet.
  - One change had no impact on the bottom line but showed salary progressions more clearly.
  - Another change was to fix an error in a customer service line, which ultimately had a positive impact on revenue needs.
- Mr. McKennitt asked about revenue and expenses, and Mr. Bulger summarized the key drivers.

**Mr. Foulds moved to recommend to the Town Manager approval of the 2025 Operating Forecast as included in this meeting's packet. Ms. Taylor provided the second and with a unanimous vote, the recommendation was approved.**

**RATE HEARING (15:00)**

**Mr. Foulds moved to suspend the regular meeting and move into a rate hearing to discuss;**

1. 2025 proposed rates (all classes, annual updates)
2. New rate: Residential Service – Electric Vehicle Charging Separate Meter (R-EV SM)
3. NYPA Credit Adjustment

**Ms. Taylor provided the second and with a unanimous vote, the regular meeting was suspended and the rate hearing opened.**

- Mr. Bulger thanked the staff for their help with the process and explained that there were a few questions that will be posed to the Light Board: rate of return (broadly defined to include depreciation, debt, transfers to the Town, etc.), fixed costs for customers, and how each rate class funds its cost of service.
- Ms. Scott explained return on ratebase, what it includes and covers. Reasons for it increasing include higher inflation costs, higher interest rates, more investments in plant.
  - Ms. Taylor said that the private sector analogue to this would be the net asset base, which is the net book value of assets minus depreciation. It's used to project profits for utilities. She worries we are unwinding the purpose for which the rate base was created in the industry.
  - Ms. Scott further clarified the difference between cash basis and utility basis.
  - Mr. Dalton thought that a more appropriate way of looking at it would be a debt service coverage ratio. As a non-profit, the return on ratebase helps us cover uncertainties that aren't otherwise captured.
  - Mr. Foulds and Ms. Taylor echo Mr. Dalton's comment.

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- Ms. Scott reviewed different scenarios with different returns on ratebase, including different fixed costs – the current \$18.50/mo and a slightly higher \$20/mo. Sample bills were displayed.
  - Mr. Foulds asked why there was a proposed PCA to return over-collected REC funds to ratepayers instead of lowering the energy charge where we collect for it. Ms. Scott replied it was due to the Board adopting a policy that specified the PCA as the mechanism for this.
  - Mr. Foulds asked about the Baker Tilly rate design model favoring increasing capacity and transmission in a way not necessarily representative of the increase in CMLP costs in those areas. Ms. Scott explained that the model apportions true costs for energy and distribution, so the transmission/capacity charges are the ones that tend to be more variable.
    - Going forward, he prefers the distribution bucket being the variable that swings.
- Ms. Scott showed comparative statistics of IOU and other MLP rates, which shows CMLP far below IOU rates below just two other MLPs

The Light Board members deliberated about the three main rate topics:

1. Fixed charges: Mr. Leon is okay with \$20 but does not want to necessarily see this number increase. Mr. Foulds expressed the importance of predictability of revenue and the desire to capture a fair cost for service delivery.
2. Rate of return: The Board had discussion and landed somewhere between 3.5-4%, and they all supported the 3.5% number, with Mr. Dalton preferring more debt service coverage ratio analysis in the future.
3. Cost of service and rate subsidies: Ms. Scott explained how this is calculated in the cost of service model in further detail, noting that a roughly 8.5% increase was spread equally to all rate classes, though the actual bill increase will be lower than that because energy costs are down and other credits will be applied. Special mention was made of the ETS increase, because before 2022 CMLP did not have an ETS distribution charge, and now it's projected to be a little over 2 cents/kWh. The Board heard from residents before agreeing with the way the increases were spread evenly across different rate classes.

#### **ETS discussion**

- Hal Iverson represents the ETS user group. They have sent two letters to the Light Board outlining the group's concerns. They argued that the distribution subsidy of the ETS rate did not get a full, fair hearing from the Board. He explains that the elimination of the distribution subsidy only provides an average of \$15/year of relief to R-1 ratepayers, but it costs ETS users \$1,000/year.
- Mr. Leon said it was right to give this full and fair consideration of the distribution subsidy, but without knowing what the TOU rates are, we don't know what the implications are.
- The Chair committed to having these discussions once we know what the Time-of-Use costs will be.
- Mr. Foulds feels we have discussed ETS extensively. He would like to see the ETS rate transition to the off-peak charge in the TOU. Ms. Taylor brought up the larger credibility of our energy efficiency programs and wanted to make sure people had faith in their continuing for a stated period of time. Mr. Dalton mentioned that a contract pushes risk onto other customers, so it needs to be done

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thoughtfully.

Other rates:

- The residential electric vehicle charging second meter rate was introduced for discussion.
- Ms. Scott explained the background of the NYPA and that the fund balance was sufficient to increase the credit.

**Ms. Taylor moved to close the rate Hearing and resume the regular meeting. Mr. Foulds provided the second and with a unanimous roll call vote the motion passed.**

**Mr. Dalton moved to adjust the NYPA credit as proposed by staff [to \$0.025 per kilowatt hour for the first 75kWh for Residential service]. Mr. Foulds provided the second and with a unanimous vote in favor the motion was passed.**

**Mr. Foulds moved to approve the second meter for EV charging [R-EV SM: Residential Service – Electric Vehicle Charging Separate Meter as included in the packet]. Ms. Taylor provided the second and with a unanimous roll call vote the motion passed.**

**Mr. Foulds moved to accept the proposed rates utilizing a \$20.00 fixed charge and a 3.5% rate of return as included in the packet [pages 134-147]. Mr. Dalton provided the second and with a unanimous roll call vote the motion passed.**

**LIASON PUBLIC COMMENTS (1:41:05)**

- Karlen Reed – She thanked everyone and asked if we could find out the rate of return used by other MLPs.
- Pamela Dritt – She wants us to increase our rates slowly to achieve more green energy and incentives.

**Ms. Taylor moved to adjourn. Mr. Dalton provided the second and with a unanimous vote, the meeting was adjourned at 9:14 AM.**

As the rates were established by the votes at this meeting the tentatively scheduled meeting for December 11 was cancelled.

Respectfully submitted,  
John Dalton, Clerk

## Concord Municipal Light Board Minutes January 8, 2025

Pursuant to a notice duly filed with the Town Clerk, a meeting of the Municipal Light Board was held on Wednesday January 8, 2025, at 7:30 AM, via a Zoom Webinar. Present were Board Members: Warren Leon (Chair), Brian Foulds, John Dalton, and Bianca Taylor. Also in attendance were Jason Bulger, CMLP Director; Carole Hilton, CMLP Customer Service Manager; Laura Scott, Assistant Director of Power Supply and Energy Management; Joe Repoff, CMLP Assistant Director; Donna De Gray, Customer Service Supervisor; Karin Farrow, CMLP Office Administrator; Eric Simms, Sustainability Director; Cameron McKennitt, Select Board liaison to CMLP; Karlen Reed, Finance Committee liaison to CMLP; residents Pamela Dritt, Andy Puchrik, Jim Terry, Edward Nardi, and Linda Nieman.

Note definitions for acronyms used in these minutes:

- **CMLP:** Concord Municipal Light
- **ETS:** Electric Thermal Storage
- **TOU:** Time-of-Use

### CALL TO ORDER

Mr. Leon called the meeting to order at 7:30 AM. Meeting recording will be posted to the Minuteman Media Website as soon as it is available.<sup>1</sup>

### MEETINGS & MINUTES

Upcoming Meeting Dates: January 22, 2025; February 12, 2025; March 12, 2025; April 9, 2025; May 14, 2025; June 11, 2025

Voting on approval on the December 4, 2024 minutes was deferred to the next meeting for edits.

- Ms. Taylor wanted the minutes to more accurately reflect her thoughts on the definition of return on ratebase, which she finds byzantine and non-transparent.
- Ms. Scott explained the purpose of return on ratebase in a Utility accounting system.
- Ms. Taylor prefers a more direct and transparent method of projecting future needs.
- Board members and staff will work on incorporating changes to the 12/4 minutes, provided the topics were discussed.

### Chair's Report

The Chair wished everyone a Happy 2025.

### DIRECTORS UPDATE presented by Jason Bulger (8:14)

- At the December 11, 2024 Sustainability Roundtable, the CMLP Director gave a presentation on what CMLP has done to contribute to the Town's Climate Action and Resilience Plan along with updates on the Solar Task Force's recommendations.
- By the time of the January 8, 2024 Light Board meeting, we should have most of the hybrid meeting equipment installed in the public meeting room, which would enable us to hold seamless hybrid meetings.
- The Town, ENE, and other Massachusetts MLPs are carefully tracking the state's new proposed Decarbonization Clearinghouse, which could replace the Mass Save program if implemented.
- The Level III charger at Ride Out was vandalized and for safety reasons been shut down pending repair.

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<sup>1</sup> YouTube link: <https://www.youtube.com/watch?v=7k-loa5d26Y>

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- CMLP staff are reviewing the changes that Mass Save has proposed to their heat pump rebate program, as described in the [Massachusetts 2025-2027 Energy Efficiency and Decarbonization Plan](#). Mass Save has already announced, is a whole home heat pump rebate of \$3,000 per ton of cooling capacity, up to \$10,000, rather than a fixed \$10,000 for every whole home heat pump project. CMLP has adopted this policy as well.
- CMLP attended the School Committee meeting in early December and the Middle School Building Committee in mid-December to provide updates on the solar/battery project there. The RFP package for the solar is ready and waiting for the School Committee to execute the site license, which was given to the Superintendent in November.
- Tree trimming bids are due back in early January, and we hope to have most of the work done by the end of April.
- Since the new rates were approved at the last meeting, the rates have been programmed and the first level of testing completed by CMLP staff. The last level of testing for the new rates and the bill print changes needs to be completed by 1/10/2025 before the first billing runs for January.

Board members and Mr. McKennitt asked about the middle school project, the decarbonization clearinghouse, and changes to CMLP's rebate structure.

**BROADBAND UPDATE** presented by Jason Bulger (25:48)

- The Network team has been busy at work doing security audits and performing non- service impacting maintenance and documentation on our system.
- The Technicians have been doing work under very challenging cold weather conditions. Yesterday they encountered a splice case that was frozen solid and had to work for hours to open it to make a repair.
- We are working on renegotiating a few dark fiber leases that have recently or will soon re-expire.

**TIME OF USE OVERVIEW** presented by Jason Bulger (28:34)

- Mr. Bulger went through a presentation after the Chair's overview.
- CMLP's current residential rates were meant to encourage energy conservation by charging more per kilowatt-hour for more usage each month. Now that CMLP's power supply is carbon-free, we should be incentivizing electrification of the grid.
- Showing a graph of two days, it was seen that prices can jump up (550%, for example) when demand is high or supply is low, which drives up prices and has higher emissions.
- The goals of opt-out time of use rates are to align customers' electricity costs with CMLP's cost for obtaining electricity, lower prices for all customers and allow people to make financial decisions that help us decarbonize.
- TOU rates were not possible before we had the advanced meters
- A history of TOU rates was presented, showing the roadmap back to 2017.
- What has been decided: that we are doing it; the purpose and motivation; that the rate structure should be proportionate to the rates CMLP incurs; that it should be as simple as possible; that we want to help customers understand these rates and empower them with tools to help save them money.
- What questions remain: Which rates will go away once we have TOU? What will the opt-out structure be? How are we addressing solar net metering? Do we continue to increase the fixed charges?
- Finally, we need to understand transmission and capacity cost intervals and level of detail on bills.

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The Light Board signaled that the presentation did a good job capturing where we are and the history of the last 10 years. Mr. Dalton pointed out that the tension of TOU rates will be between simplicity and getting the price right.

**TIME OF USE BILL PRINTING INFORMATION** presented by Laura Scott (47:10)

- Staff mentioned that the billing vendor needs 6 months to complete comprehensive bill changes, so we need to make decisions now to design a new layout.
- The current bills breakout capacity/transmission, energy, distribution and other credits/charges for transparency, but with TOU buckets, this will become very confusing on a bill.
- Example bills were presented from various utilities that offer TOU rates. Highlights include:
  - Charts that show (1) current month and same month last year; (2) current month with 13 months total; (3) stacked vs staggered bar charts.
  - Some show when the time-of-use buckets are
  - Most show bundled rates; one shows various breakdowns.
- Additional generic explanatory data could be presented on the bills, including QR codes or URLs.

Light Board members had discussion, which was overwhelmingly supportive of collapsing charges into a single charge.

- Ms. Taylor likes the simplicity of collapsing the charges into a single charge, and likes the history being available. She thinks the QR code is a great idea.
- Mr. Foulds agrees with collapsing charges except the variable distribution to help with solar customers. He likes breaking the fixed charge into a \$6.50 meter fee and a customer account charge of \$13.50. This may be dependent upon the cost of service study's findings.
- Mr. Dalton agrees with collapsing the three charges and proposed a separate rate for solar customers if the distribution needs to be identified for those customers. He suggested it would be possible to have different rates for different use cases. He prefers providing a full year's worth of data broken out by time of use.
- Mr. Leon agrees with collapsing everything and thinks the readability of the various bills presented varies greatly. He prefers having 12 months on the bill in the style of the Cobb EMC bill with TOU broken out.
- Mr. Foulds found value in 13 or 14 months of data so people can compare the current month with the same month in the previous year. He thought overall consumption was sufficient on the bill with a QR code that could provide additional detail. He will provide a mockup to staff.
- Additional conversation occurred about what details will appear on a solar customer's bill, with Mr. Leon and Mr. Dalton suggesting that, while they are important for the calculation of a rate, broken out distribution charges are not required on bills. That conversation was deferred to a future meeting.

The Board had broad consensus about having 12+ months on the bill and collapsing the rate components into a single number. Staff explained that they needed the matter fully settled if the opt-out TOU rate is including solar customers. The Board is going to come back at the next meeting to come to a complete decision, and in the meantime, all Board members are encouraged to send their comments to staff.

**No vote took place**

**PRESENTATION ON ELECTRICAL LOAD** presented by Laura Scott (1:21:06)

The purpose of the presentation is to explain the connection between when power is used and how much it costs, so people can see how TOU can lower prices. The presentation pointed out:

- Power consumption is highest in the summer.

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- Power consumption steadily declined from 2006-2017, but since 2017 it has increased at about 4%.
- Winter and summer hourly usage patterns were presented and explained. The data extend back to 2006 and did not show as prominent a duck curve as there likely is today.
- Higher variability months are more costly since we need to have generation standing by, even when we don't need it.
- (Monthly) Transmission costs assessed by ISO-New England have increased to the point where they are 4x higher than (annual) capacity costs (\$16 vs. \$4/kW per month).
- New England grid peaks have been moving later and later in the day, mostly due to solar.
- Annual capacity costs are calculated by the peak plus a reserve adder cost, which is around \$2.4M over a year.
- Costs can be lowered by changing how much we use during the ISO peak hours, using energy storage, time-of-use rates, load control programs, or in-town solar generation.

Board members expressed appreciation for the presentation. Other comments included:

- Mr. Dalton highlighted the variability of transmission costs as presented in the slideshow. He thinks it may be difficult to hit peak periods in terms of load reduction.

**LIASON PUBLIC COMMENTS (1:44:31)**

- **Karlen Reed** asked when time-of-use rates would go into effect, and the Director said hopefully 1/26.
- **Linda Nieman** said some elements of the sample bills were confusing. She wants to know when on/off peak is each day, including 12 months. She asked how effective the peak reduction notifications are.
- **Pamela Dritt** thinks simplicity really means transparency and understandability. She likes the Cobb EMC bill of the provided samples.

**Mr. Foulds moved to adjourn. Mr. Dalton provided the second, and with a unanimous vote, the meeting was adjourned at 9:20AM.**

Respectfully submitted,  
John Dalton, Clerk

# TOU Bill Print Options

January 8, 2024 Light Board Meeting

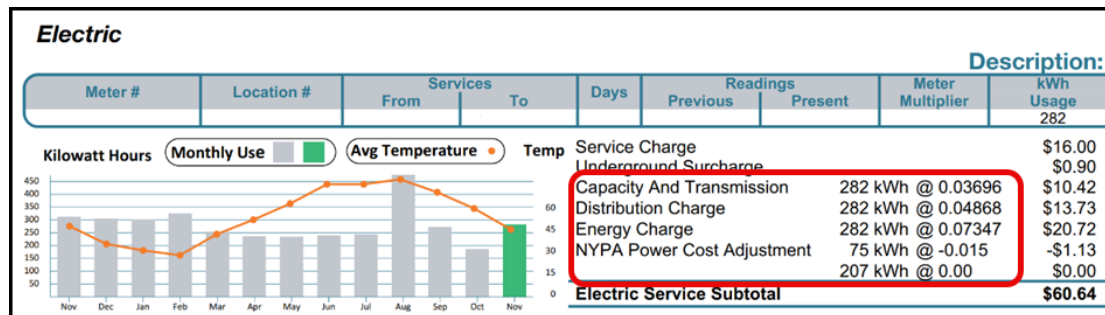


**CONCORD MUNICIPAL**  
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*We're here to serve you*

# Introduction

- Our current bills break out Capacity/Transmission, Distribution, and Energy charges for each kWh.
- With Time-of-Use rates, it may be difficult and confusing to break out all three elements for each time period on a bill.
- We are looking for feedback on the level of detail to include after viewing how other utilities are handling this.

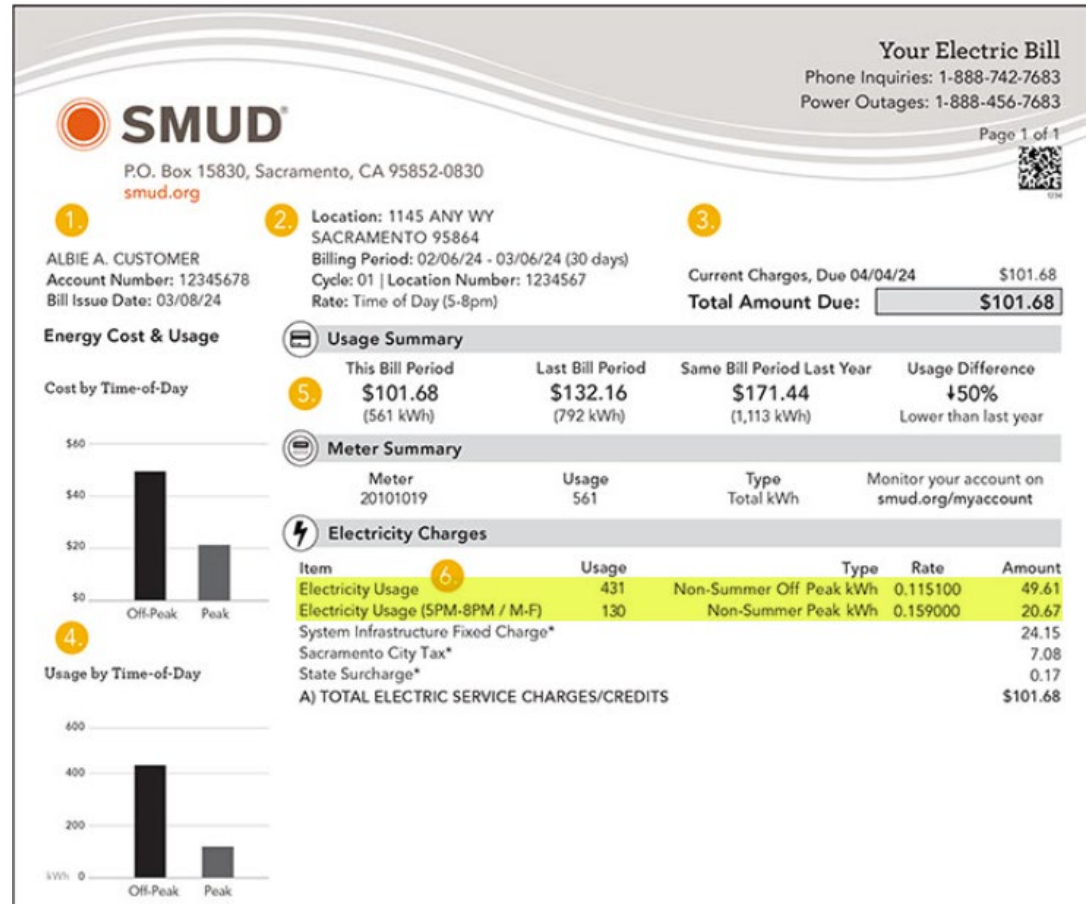


# Examples

- Sacramento Municipal Utility District
- Toronto Hydro
- Kankakee Valley
- Hendricks Power
- Cobb EMC
- Southern California Edison

# Sacramento Municipal Utility District

- One line per time period
- Single, bundled rate
- Two charts show prior month only
  - Cost per time period
  - Usage per time period



Toronto Hydro-Electric System Limited  
YOUR ELECTRICITY BILL



Account Number **0123456789** Premises Number **0123456789**  
 Meter Number **01234567**  
 RESIDENTIAL TOU CUSTOMER  
 7 MAKE BELIEVE DR  
 TORONTO ON M2M 3T3

Statement Date	Dec 04 2024
Amount Due	\$136.77
Due Date	Dec 28 2024
Amount Paid	

416-542-8000 torontohydro.com  
 Interest is charged on any amount past due at a daily rate of 0.04896% compounded at the time of billing from the due date until receipt of each amount and all accrued interest (Effective interest rate of 19.56% per annum)

Service Location: **7 MAKE BELIEVE DR, TORONTO**  
 Residential Service  
**Your Electricity Charges**

**Electricity**  
 Electricity distributed by TORONTO HYDRO

**Time of use - Winter**

126.000 kWh On-peak (Highest Price) @ \$0.158 / kWh	19.91
126.000 kWh Mid-peak (Mid Price) @ \$0.122 / kWh	15.37
448.000 kWh Off-peak (Lowest Price) @ \$0.076 / kWh	34.05

**Delivery** 63.07  
**Regulatory** 4.50

**Your Total Electricity Charges** **136.90**

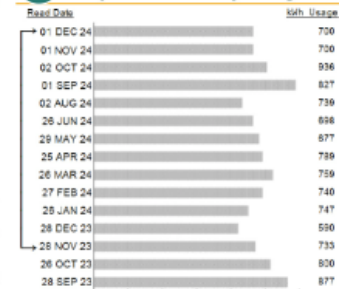
**H.S.T. (H.S.T. Registration 896748327RT0001)** **17.80**

**Ontario Electricity Rebate** **17.93 CR**

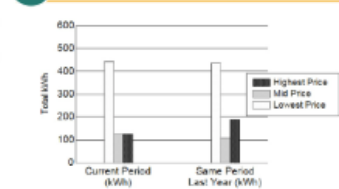
**Your Previous Charges**  
 Amount of last bill 136.03  
 Payment Received Nov 20 2024 - Thank You 136.03 CR  
**Balance Forward** **0.00**

**Total Amount Due by Dec 28 2024** **\$136.77**

**Compare Your Daily Usage**



**Time-of-Use Comparison**



Seeing double? You're not being charged twice. Bill reflecting electricity consumed before and after November 1 will have double line items. Learn more at [torontohydro.com/rates](http://torontohydro.com/rates)

**Your Electricity Usage**

Meter Number	Meter Reading Period	Number of Days	Lead Type	Current Reading	Previous Reading	Billing Mult.	kWh Used	Loss Factor Adjustment	Adjusted kWh Used
01234567	NOV 01 2024 TO DEC 01 2024	30	Act.	304823.379	304123.379	1	700	1.0295	720.549

# Toronto Hydro

- One line per time period
- Single, bundled rate
- Two charts show
  - Total kWh past 12 months
  - kWh per time period last month vs year ago
- Meter register readings

# Kankakee Valley



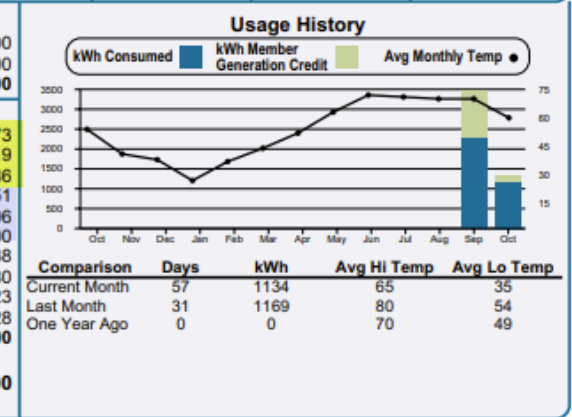
Toll-Free: 800-552-2622 or 219-733-2511  
Hours: 7:30 a.m. - 4:00 p.m. Monday -Friday  
[www.kvremc.com](http://www.kvremc.com)

- One line per time period
- Single, bundled rate
- Chart shows last 12 months
  - Total kWh delivered past 12 months
  - Generation credit past 12 months
- Meter register readings

Account Number: 12345678 Rate Description: General Serv Net Bill TOU (47) Service Address: 1234 MAIN ST

Meter #	Description	Days	From	To	Meter Multiplier	Recorded Usage
84636	CONS	29	09/29/24	10/28/24	1	1,134
84636	GEN	29	09/29/24	10/28/24	1	2,270

Previous Account Activity		
Previous Balance		\$16.00
Payment Received - Thank You		-\$16.00
<b>Balance Before Current Charges</b>		<b>\$0.00</b>
Current Activity		
On Peak kWh	91 kWh @ 0.095927	\$8.73
Off Peak kWh	690 kWh @ 0.095927	\$66.19
Super Off Peak kWh	353 kWh @ 0.095927	\$33.86
On Peak kWh Gen Credit	115 kWh @ -0.056596	-\$6.51
Off Peak kWh Gen Credit	2,155 kWh @ -0.056596	-\$121.96
Super Off Peak kWh Gen Credit	0 kWh @ -0.056596	\$0.00
Power Cost Adjustment	1,134 kWh @ 0.031200	\$35.38
Facilities Charge		\$44.80
State Tax		\$13.23
Roundup Amt		\$0.28
<b>Total Current Activity</b>		<b>\$74.00</b>
<b>Total Amount Due</b>		<b>\$74.00</b>



# Hendricks Power

- One line per time period
- Single, bundled rate
- One chart shows last 12 months clustered columns
  - On-peak usage
  - Off-peak usage
- Meter register readings

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Day or Night: (317) 745-5473 or 1-800-876-5473  
[www.hendrickspower.com](http://www.hendrickspower.com)

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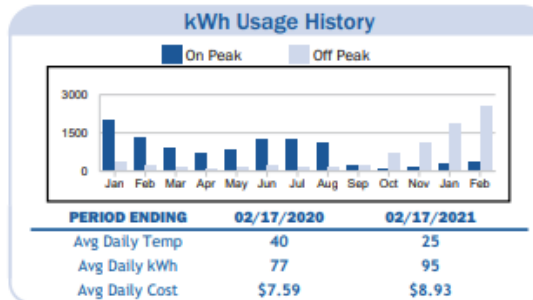


Statement Date	02/19/2021
Account Number	1104803
Payment Due	03/10/2021

Service Summary	
Previous Balance	\$141.77
Payment 02/09/2021	<i>Thank you!</i> -\$143.00
Balance Forward	-\$1.23
Current Charges	\$296.34
Account Balance	\$295.11
<b>Budget Amount Due</b>	<b>\$159.00</b>
<b>Credit Card - Do Not Pay</b>	

Account Number 1104803 Phone #: (317) 213-3057

Register	Services		Days	Meter Number	Meter Multiplier	Usage	Type	Rate	Bill Type	Service Description
	From	To								
On Peak	01/17/2021	02/17/2021	31	90493842	1.00	401	kWh	RTOU6	Budget	7817 WALNUT DR
Off Peak	01/17/2021	02/17/2021	31	90493842	1.00	2558	kWh	RTOF6	Budget	7817 WALNUT DR



**Current Service Detail**

Facilities Charge		\$34.00
On Peak kWh Charge	401 kWh @ 0.23860	\$95.68
Off Peak kWh Charge	2,558 kWh @ 0.06090	\$155.78
Power Cost Adjustment	2,959 kWh @ -0.002878	-\$8.51
<b>Electric Charges</b>		<b>\$276.95</b>
Tax		\$19.39
<b>Current Charges</b>		<b>\$296.34</b>
<b>Balance Forward</b>		<b>-\$1.23</b>
<b>Total Budget Due 03/10/2021</b>		<b>\$159.00</b>
<b>\$4.98 late charge applies after 03/10/2021</b>		<b>\$163.98</b>

# Cobb EMC

- One line per time period
- Single, bundled rate
- One chart shows last 12 months stacked columns
  - On-peak usage
  - Off-peak usage
  - Super off-peak



1000 EMC Parkway, Marietta, GA 30060

Member care: 770-429-2100 or [www.cobbemc.com](http://www.cobbemc.com)  
 Pay by Phone: 1-855-730-8714  
 Go paperless! [www.cobbemc.com/paperless](http://www.cobbemc.com/paperless)

4 3621



Bill Date: 02/23/2021 Page 1 of 2  
 Account Number: 510064001  
 Service Address: 3185 Oak Dr  
 Marietta GA 30066

Due date: **Mar 15, 2021**  
 Amount due: **\$90.00**

Account Summary	
Previous Balance	\$162.00
Payment(s) Received	\$-162.00
Current Charges	\$90.00
<b>Amount Due</b>	<b>\$90.00</b>

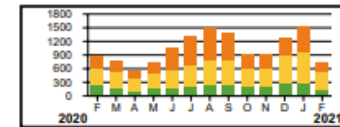
**Late payment notice:** If payment is not made by the due date, a late payment charge of \$10 or 1.5%, whichever is greater, will be added.

Service period: Jan 20, 2021 - Feb 17, 2021 Current electricity usage - Meter #:1N6029713372 Meter multiplier: 1  
 Days of Service: 28 Metered kWh 739  
 Rate: NiteFlex

Current Charges	
Service Charge	\$29.00
On Peak Charge 215 @ \$0.1350	\$29.03
Off Peak Charge 367 @ \$0.0730	\$26.79
Super Off Peak Charge 157 @ \$0.0000	\$0.00
State and Local Taxes	\$5.09
Operation Round Up Program	\$0.09
<b>Total Current Charges</b>	<b>\$90.00</b>

**Way to Save!**  
 By shifting energy use to Super Off Peak, you saved:  
**\$21.20** compared to On Peak Hours  
**\$11.46** compared to Off Peak Hours

On Peak - 1 p.m. - 9 p.m.  
 Off Peak - 6 a.m. - 1 p.m. & 9 p.m. - 12 a.m.  
 Super Off Peak - 12 a.m. - 6 a.m.



	Daily Average (kWh)	Monthly Total (kWh)
Feb 2021	26	739
Feb 2020	29	894

### Important Information

**Electronic funds transfer:** Your account will Auto Pay on the Due Date for the Amount Due.

**Download our free app:** Manage your account from the palm of your hand with the free Cobb EMC app. Sign up for text alerts, pay your bill, view your energy usage, report power and streetlight outages and view our outage map. [cobbemc.com/app](http://cobbemc.com/app)


**Keeping your power on:** Count on us to power your precious moments with smart grid technology. Because of our smart grid, we're ranked 1st in the nation for restoring outages quickly. [cobbemc.com/smartgrid](http://cobbemc.com/smartgrid)

**Making a difference in our community:** Together, we helped contribute \$11,979 to The Salvation Army in 2020. You can help too by simply making a donation on your Cobb EMC bill. Get started at [cobbemc.com/projectshare](http://cobbemc.com/projectshare).

See reverse side for additional details

# Southern California Edison

- Broken out into Delivery and Energy charges
- One line per time period for each charge type
- Single, bundled rate
- One chart shows last 12 months total usage only



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VALUED CUSTOMER / Page 3 of 4

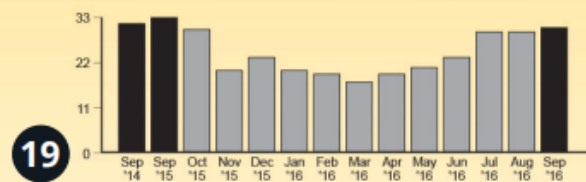
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## Your past and current electricity usage

For meter 2220000-000000 from 08/25/16 to 09/26/16  
Total electricity you used this month in kWh 977

Your daily average electricity usage (kWh)  
2 Years ago: 31.70      Last year: 33.03      This year: 30.53

*Your next billing cycle will end on or about 10/26/16.*



---

### 20 Details of your new charges

Your rate: TOU-D-A  
Billing period: 08/25/16 to 09/26/16 (32 days)

#### 21 Delivery charges - Cost to deliver your electricity

Basic charge	32 days × \$0.03100	\$0.99
Energy-Summer		
On peak	233 kWh × \$0.14856	\$34.61
Mid peak	442 kWh × \$0.14856	\$65.66
Off peak	302 kWh × \$0.08594	\$25.95
DWR bond charges	977 kWh × \$0.00539	\$5.27

#### 22 Generation charges - Cost to generate your electricity

DWR		
DWR energy credit	977 kWh × -\$0.00022	-\$0.21
SCE		
Energy-Summer		
On peak	233 kWh × \$0.28188	\$65.68
Mid peak	442 kWh × \$0.13118	\$57.98
Off peak	302 kWh × \$0.03968	\$11.98
Baseline credit	333 kWh × -\$0.09871	-\$32.87
Subtotal of your new charges		\$235.04
State tax	977 kWh × \$0.00029	\$0.28
<b>Your new charges</b>		<b>\$235.32</b>

### 23

**Your delivery charges include:**

- \$14.39 transmission charges
- \$87.70 distribution charges
- -\$0.83 nuclear decommissioning charges
- \$20.66 public purpose programs charge
- \$4.98 new system generation charge

**Your generation charges include:**

- -\$0.15 competition transition charge

**Your overall energy charges include:**

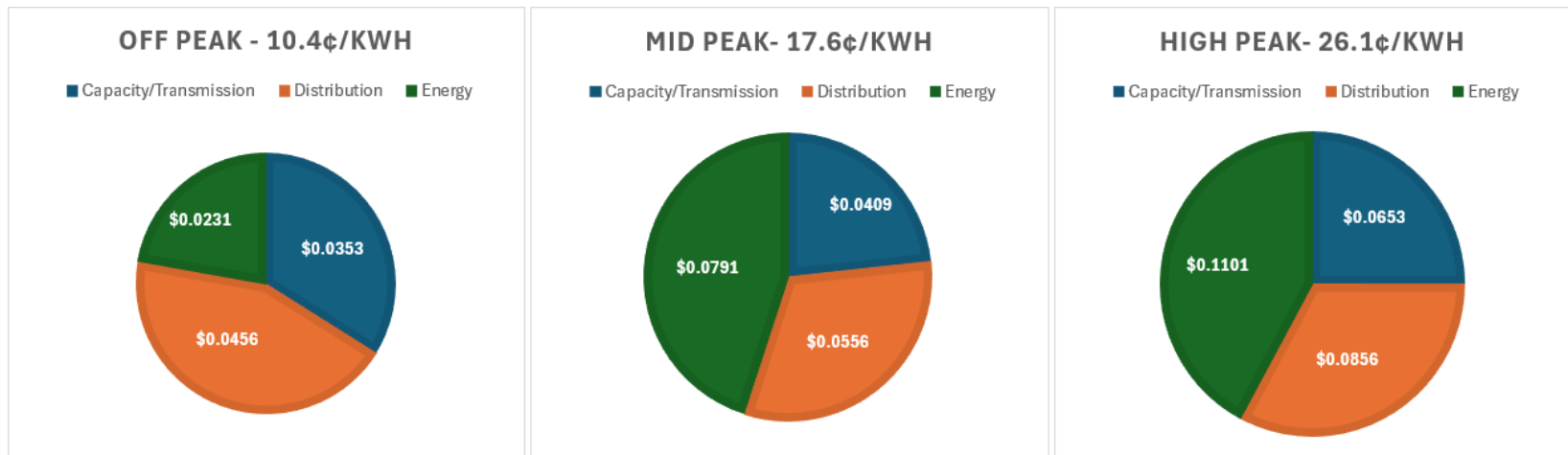
- \$1.24 franchise fees

**Additional information:**

- Service voltage: 240 volts

# Other Options

- QR Code to provide extensive detail about the bill.
- One explanation for all times of day



# Questions

- Show on, mid and off-peak prices for
  - 1) energy, 2) capacity & transmission, 3) distribution or just a total of all 3?
- Show graph of total use or use by time period for
  - Last 12 months
  - Last month only

# Board Feedback

Topic	Bianca	Brian	John	Warren
Show at least 12 months of data	✓	✓	✓	✓
Show time-of-use bucket usage within graph data	✓	✗	✓	✓
Use a QR code to bring people to a page with more information	✓	✓	✓	✓
Collapse Capac./Trans., Energy, Distribution into one price per time-of-day	✓	✗*	✓	✓

\* Brian wishes distribution charges separated for transparency when it comes to solar billing. He prefers collapsing everything else.

# Board Feedback (con't)

- One member preferred the Cobb EMC bill example; one person preferred the SMUD; one person thought all bill examples were too cluttered.
- Two people brought up at least 13 months so customers can see the same period the year before.

# Board Feedback (con't)

- It was suggested to include the actual times per day that comprise the time-of-use rates.
- Include “Ways to Save” on bills?

Example of a Summer bill for default TOU resident without riders.

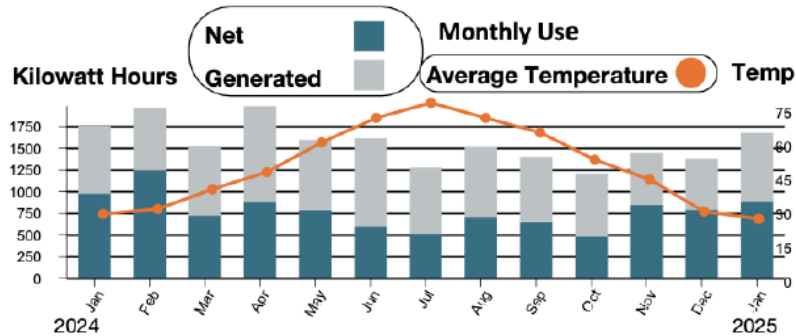
Meter #	Rate	Services		Days	Reading		Meter	kWh	When		
	Schedule	From	To		Previous	Present	Multiplier	Measured	On	Mid	Off
185382374	RES	7/1/2024	8/1/2024	31	331	1166	1.0	835	65	270	500

Delivery:	Unit Type	Billable Units	Rate	Total
Meter Change	# of Meters	1	\$6.50	\$6.50
Fixed Distribution Charge	per customer	1	\$13.50	\$13.50
Variable Distribution Charge	kWh	835	\$0.06561	\$54.78
<b>Delivery Charge</b>				<b>\$74.78</b>
Energy: Summer TOU Rates	Unit Type	Billable Units	Rate	Total
On Peak (5-9pm)	kWh	65	\$ 0.45043	\$29.28
Mid Peak (Noon-5pm, 8-11pm)	kWh	270	\$ 0.23053	\$62.24
Off Peak (weekends & non-Mid or On-peak hours)	kWh	500	\$ 0.08393	\$41.97
<b>Energy Charge</b>				<b>\$133.49</b>
Adjustments and Special Clauses:	Unit Type	Billable Units	Rate	Total
Power Cost Adjustment	kWh	835	(\$0.00400)	(\$3.34)
NY Power Authority Credit	1st 75 kWh	75	(\$0.02500)	(\$1.88)
Underground Surcharge	Dollars	\$203.06	1.5%	\$3.05
<b>Adjustments and Special Clauses Charge</b>				<b>(\$2.17)</b>
<b>Total</b>				<b>\$206.10</b>

Brian's bill mock-up



For more details about your bill login to your SmartHub® Customer Portal.



Same graph as currently used without solar for this customer type and with three of the current months shown. (July 2023, 2024 & 2025).