



AGENDA ITEM NO: 5.B.1
MEETING DATE: 02/13/2023
ADMINISTRATIVE REPORT NO.: 2023-64
ACTION: FOR INFORMATION ONLY

To: Honorable Public Utilities Board

Submitted by: _____ */s/*
Chris Ferrara
AGM, Customer Resources Division

From: Midson Hay
Energy Resources Analyst

Approved by: _____ */s/*
Nicolas Procos
General Manager

Subject: For Information and Feedback Only, Electric Vehicle – Time of Use Rate Review

RECOMMENDATION

For information only, receive a status update on the Electric Vehicle Time of Use rate schedule for electric vehicle owners and provide feedback on the same. No formal action is required at this time.

BACKGROUND

On November 16, 2020, the Public Utilities Board (Board) approved the adoption of the Electric Vehicle – Time of Use (EV-TOU) rate schedule and the schedule went into effect July 1, 2021. Alameda Municipal Power (AMP) staff provided an update on EV-TOU roll-out and early findings in the October 25, 2021, Board meeting with a recommendation for additional analysis to be performed after AMP has at least a full year of EV-TOU data.

DISCUSSION

See attached exhibit for details.

FINANCIAL IMPACT

This report provides a status update only. It does not directly have any financial impact.

LINK TO STRATEGIC PLAN AND METRICS

AMP Strategic Plan:

1. Issue: Sustainability, Strategy 1 – Support transportation electrification
2. Issue: Business Resiliency, Strategy 2 – Improve rate design to reflect Strategic Plan

EXHIBIT

A. PowerPoint Presentation

Electric Vehicle Time of Use Rate

February 13, 2023

Goals and Design

- Goals

Customer Benefits

- Opportunity for bill savings
 - Increases with usage
 - Additional EV purchase
- Simple rate structure
- Increased bill control

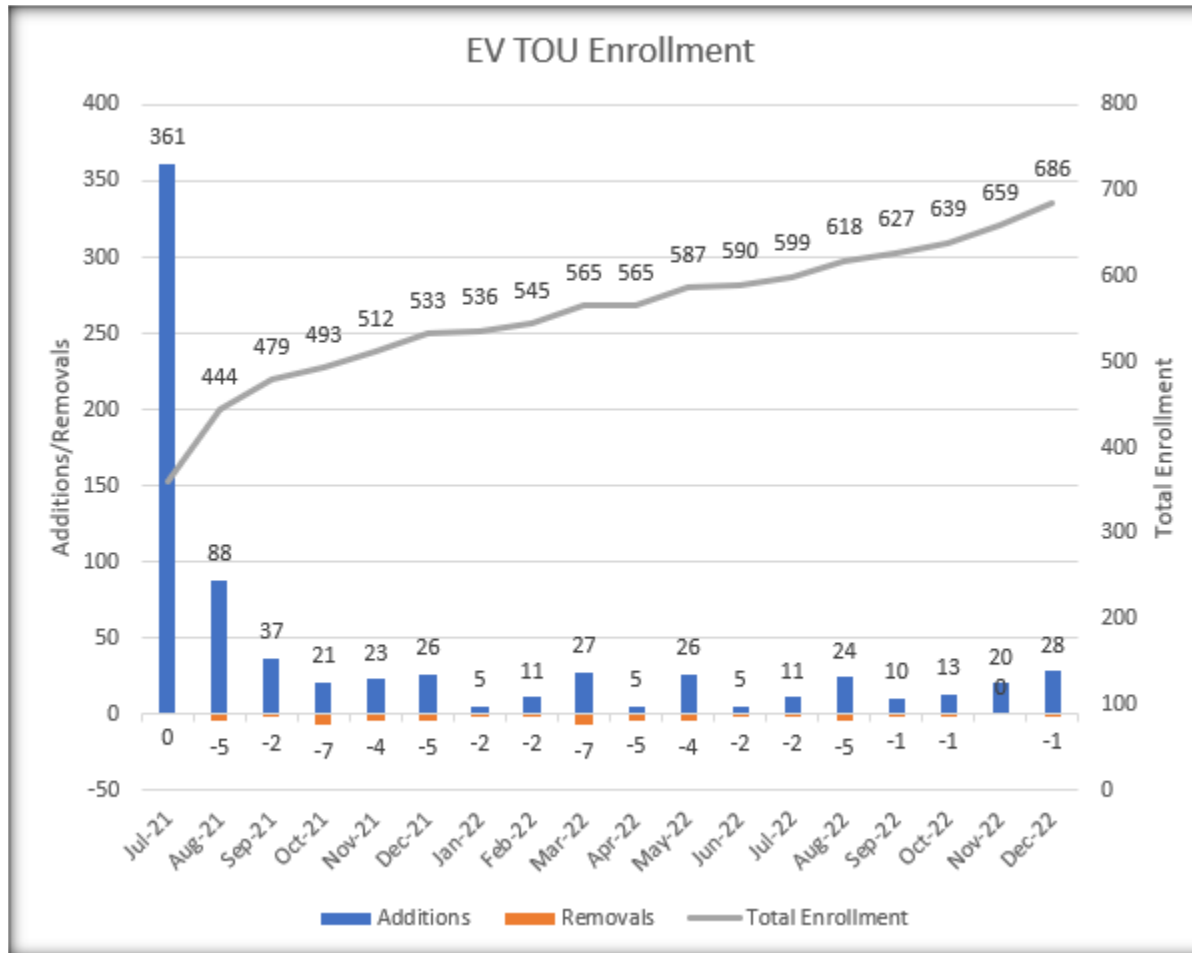
AMP's Benefits

- Support transportation electrification
- Cost savings
 - Less on-peak energy
 - Deferred distribution investments

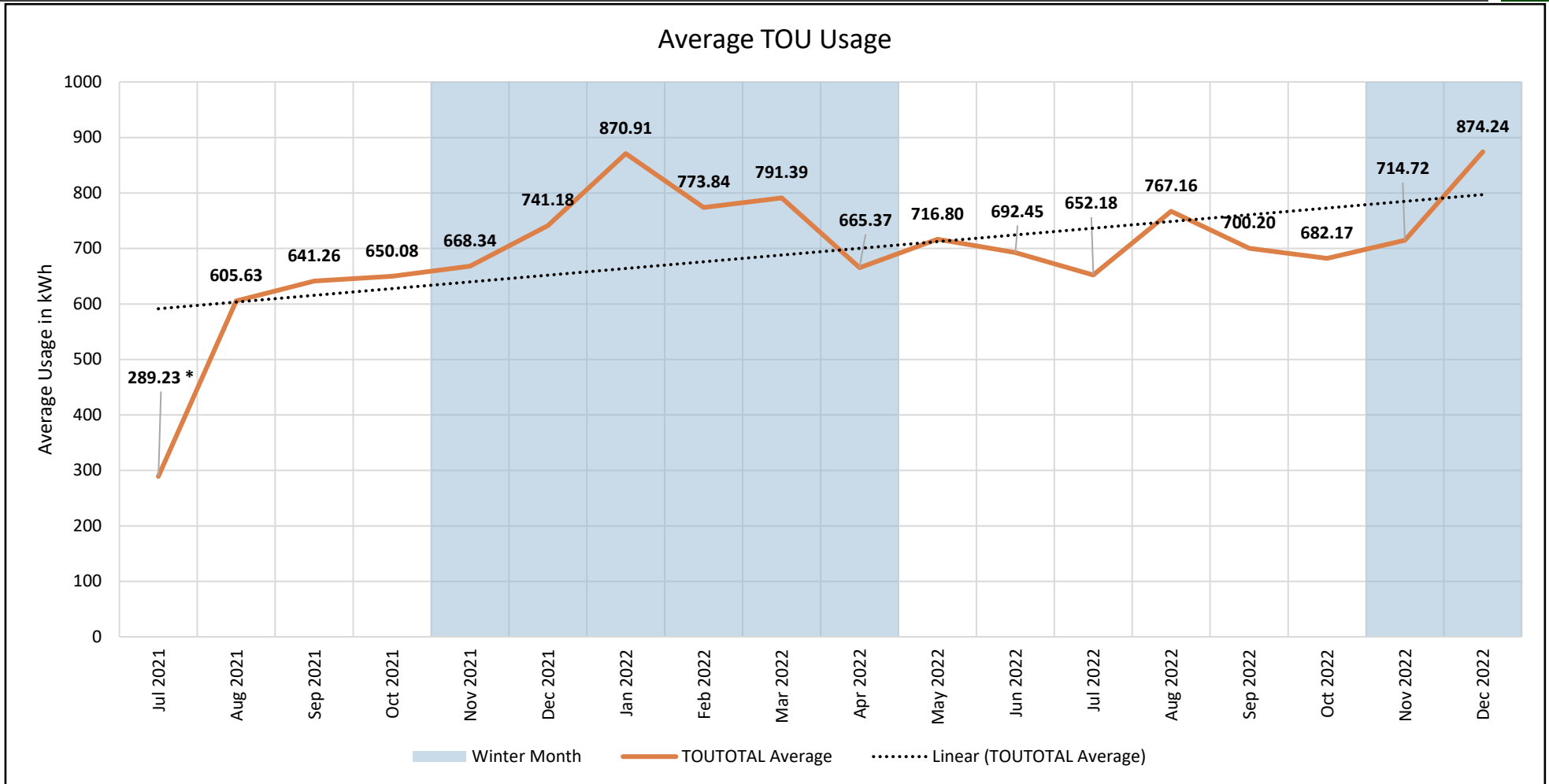
- Design

- Assumed an average EV customer usage of 550 kWh
- Structured to be revenue neutral with EV discount

Enrollments



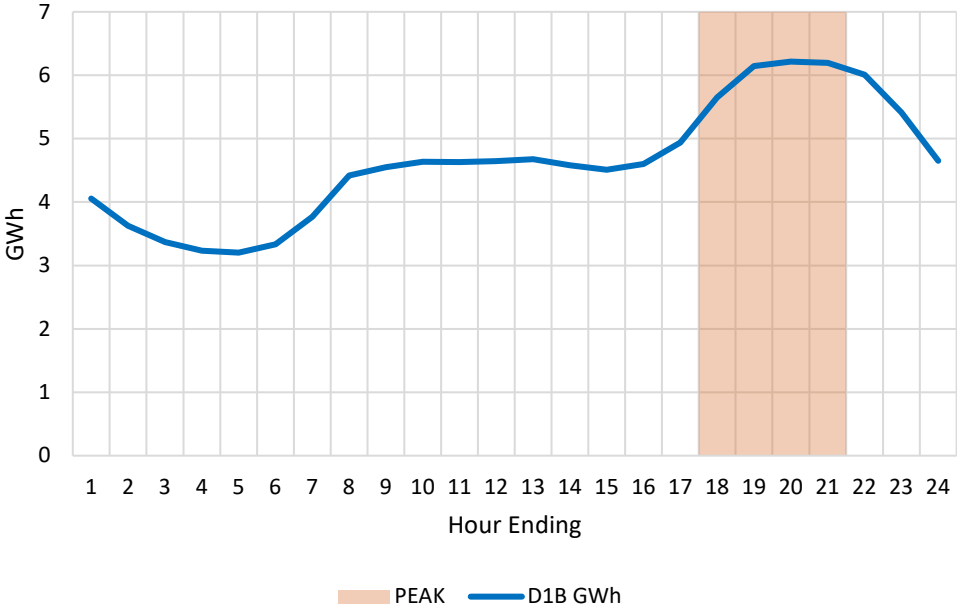
Average TOU Usage



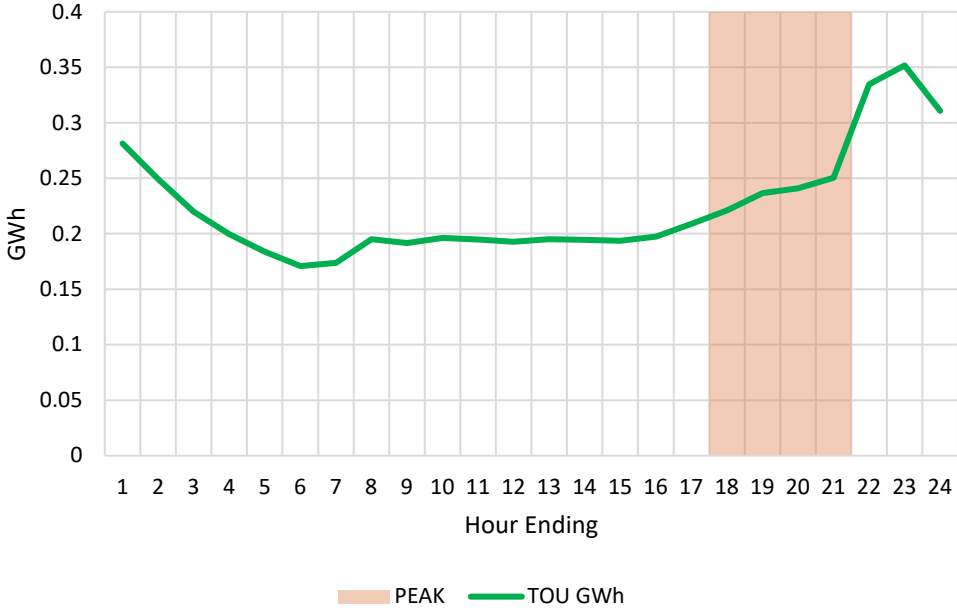
Note*: July 2021 Bill Date had a small sample size of 13

2022 Usage Comparison

2022 D1B Total Usage by Hour

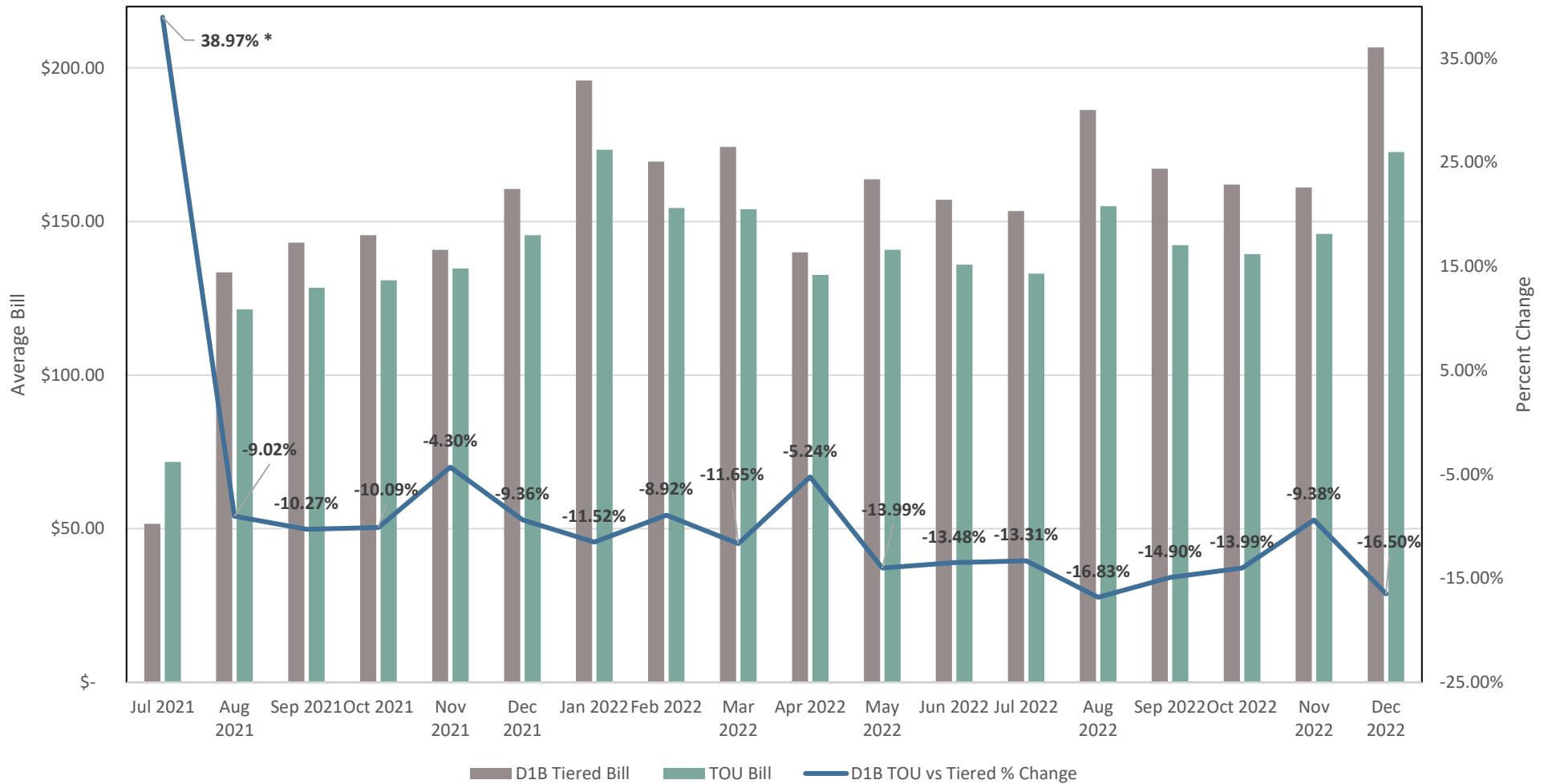


2022 TOU Total Usage by Hour



Bill Comparison

Average TOU Customer vs Tiered Rate



Key Takeaways

- EV owners are successfully adopting TOU and saving money by shifting their usage
 - In CY 2022 customers saved \$21.50 on average on TOU vs Tiered Rates
- Average usage for TOU customers is 678 kWh for summer and 762 kWh for winter
- Higher average usage and greater shifting habits have increased savings beyond expectations.
- AMP staff to review in Cost-of-Service update

Questions?

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