



Board Report

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Agenda Number: 31.

OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE APRIL 17, 2025

SUBJECT: ZERO EMISSION BUS (ZEB) PROGRAM UPDATE

ACTION: RECEIVE ORAL REPORT

RECOMMENDATION

RECEIVE oral report on the ZEB Program.

ISSUE

This update provides a status report on the ZEB transition plan, including division electrification, bus acquisitions, grant efforts, and upcoming program activities.

EQUITY PLATFORM

Operations collaborates with the Office of Equity and Race to identify and mitigate concerns to ensure equitable outcomes relative to Metro's ZEB transition. The purpose of this report is to provide a program-level status update; project-specific equity impacts are discussed in detail in their respective project reports. Divisions 1, 2, 3, 5, and 9 are located within Equity Focus Communities. Division 9 will be the first electrified. The report also illustrates funding and schedule risks to the first half of the division electrification schedule. Delays to the electrification schedule could disproportionately impact EFCs by delaying air quality improvements through emissions reductions. However, despite these risks, the division electrification schedule currently remains on track.

VEHICLE MILES TRAVELED OUTCOME

VMT and VMT per capita in Los Angeles County are lower than national averages, the lowest in the SCAG region, and on the lower end of VMT per capita statewide, with these declining VMT trends due in part to Metro's significant investment in rail and bus transit.* Metro's Board-adopted VMT reduction targets align with California's statewide climate goals, including achieving carbon neutrality by 2045. To ensure continued progress, all Board items are assessed for their potential impact on VMT.

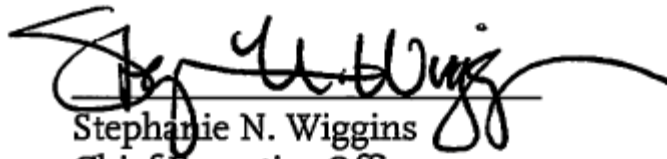
As part of these ongoing efforts, this item is expected to contribute to further reductions in VMT. This item supports Metro's systemwide strategy to reduce VMT through operational activities that will maintain and encourage transit ridership. Facilitating Metro's transition to a ZEB fleet will enhance

customer experience with vehicles that are quiet and utilize zero-emission technology. Metro's Board-adopted VMT reduction targets were designed to build on the success of existing investments, and this item aligns with those objectives.


*Based on population estimates from the United States Census and VMT estimates from Caltrans' Highway Performance Monitoring System (HPMS) data between 2001-2019.

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Zero Emission Bus (ZEB) Program Quarterly Update

VEHICLE ENGINEERING & ACQUISITION



Metro®

Charging Infrastructure Project Updates



Harbor Gateway Transit Center

- Chargers tested and commissioned. Shade structures and striping in progress.



Photo: Progress at Division 9

Division 9 & EMTC

- Steel erection for gantry in progress.
- Civil, structural, and electrical work for enroute chargers in progress.

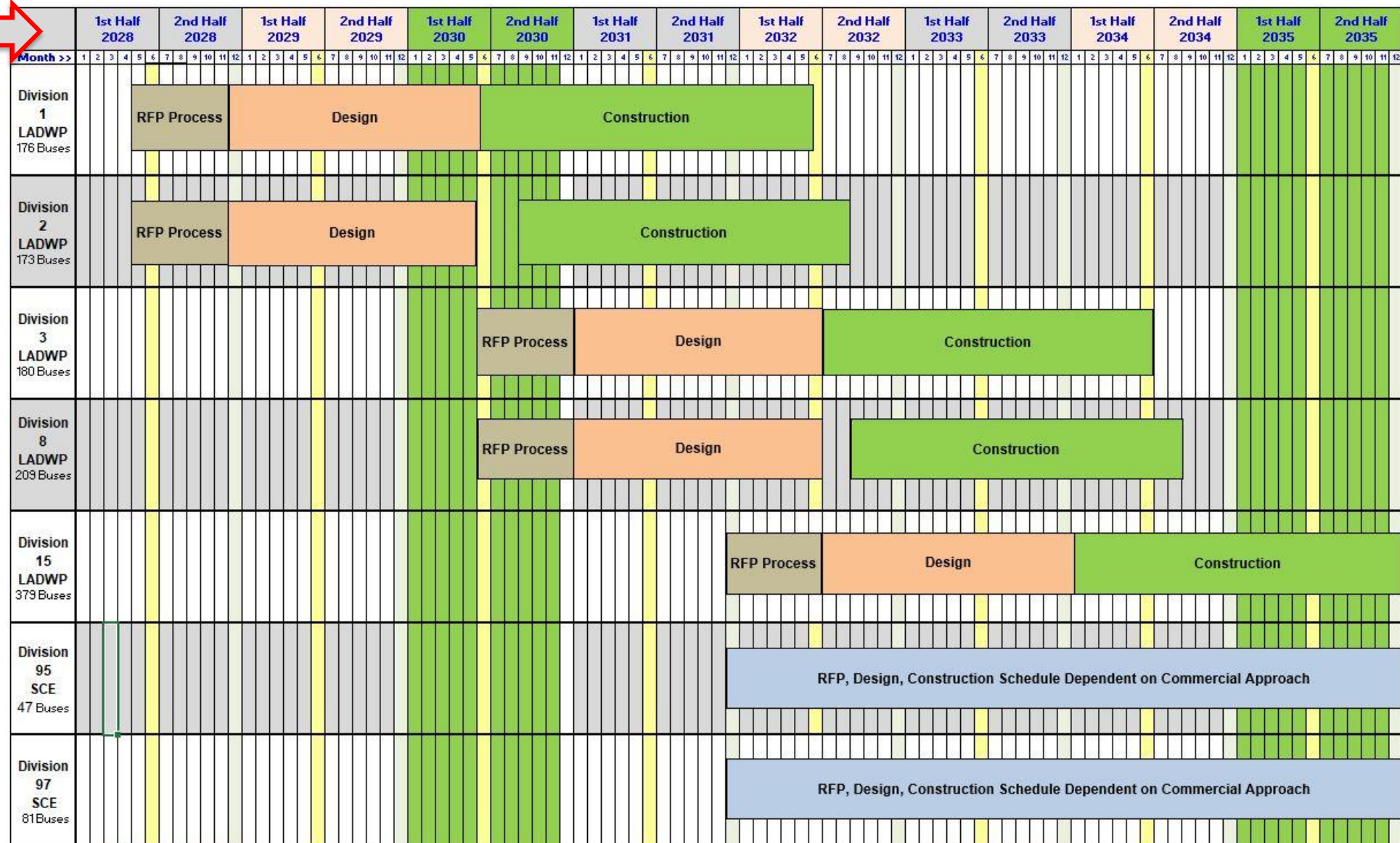
Division 18 & 7

- Completed industry review meetings.
- RFP issuance targeted for release Q2 CY25.

Enroute Charging Equipment

- NTP issued to contractor for G Line replacement chargers. First charger to be replaced in Q2 CY25.
- NSFV and NHTC opportunity charging sites have entered utility design phase.
- Charging equipment procurement will close 4/28/25.

Evaluating technical and commercial approaches for refining contract divisions 95 & 97

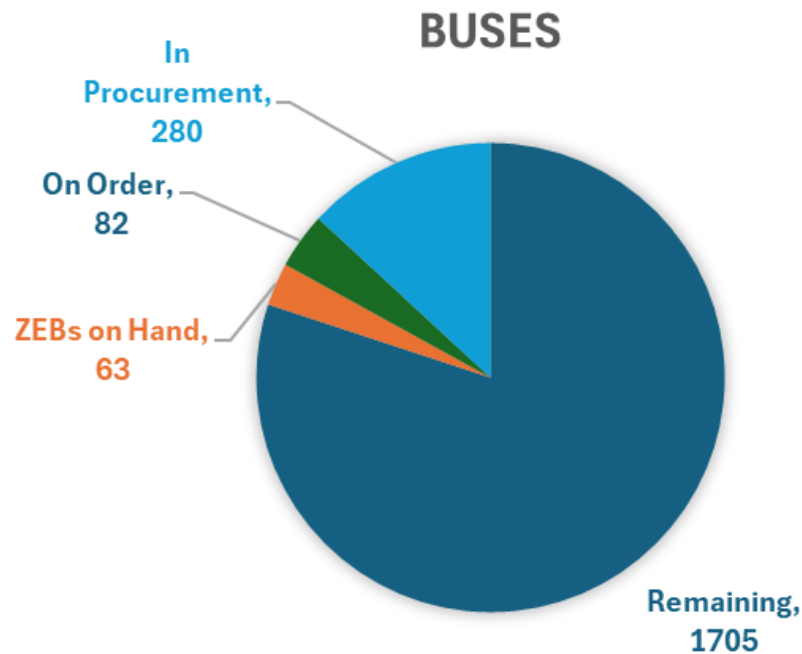


Status of Bus Acquisition



Current Fleet

- 3.0% of fleet converted to ZEB*



*Assumed future fleet size of 2,130 buses
Data as of 2/13/25



Regional Bus Procurement

- Closed March 20, 2025 (currently in blackout)
- Metro will hold options for up to 1,700 buses
 - Municipal operators interested in up to 397 buses of the option quantities.

BYD Bus Deliveries

- BYD has not been able to adhere to the original schedule. K9MD buses are 14 months delayed. Revised schedule includes an average of 10 buses a month through 2025. 6 of 6 planned buses delivered in February. 4 of 7 planned buses delivered in March.
- Issues include buses not meeting specifications, quality control (example: damaged high voltage lines) and safety (incident at BYD facility).
- Metro staff has worked with BYD to resolve issues and clarify expectations including implementation of process and safety improvements to help ensure schedule adherence and a safe work environment for our inspectors.

Grant Updates and Continuing Activities



Recent Grant and Funding Applications

- Awaiting decision on \$2 million Build America Bureau Regional Infrastructure Accelerator grant.
- Submitted \$52 million request for Division 7 charging infrastructure through 5307 15% formula program.

Upcoming project activities

- Construction progress to continue at Division 9 and El Monte Transit Center through Q1 CY26
- Release of Division 18 & 7 PDBOM solicitation in Q2 CY25
- FCEB Infrastructure Feasibility Study to be completed in Q2 CY25
- Prioritizing and initiating design for NSFV and other enroute charging sites
- Anticipate infrastructure and buses to be in place for full J Line electrification by winter 2025

THANK YOU

