



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.

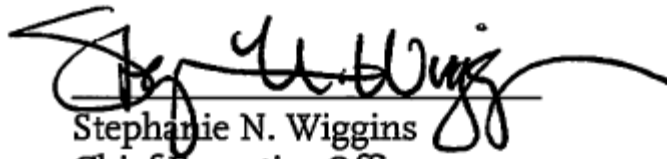
As part of these ongoing efforts, this item is expected to contribute to further reductions in VMT. This item supports Metro’s systemwide strategy to reduce VMT through operational activities that will maintain and encourage transit ridership. Facilitating Metro’s transition to a ZEB fleet will enhance

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.

Prepared by: Shaun Miller, Deputy Executive Officer, Project Management, (213) 922-4952

Reviewed by: Conan Cheung, Chief Operations Officer, (213) 418-3034



Stephanie N. Wiggins
Chief Executive Officer



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.

Status of Division Electrification (First Five Divisions)



Electrification
schedule for
first five
divisions



	2nd Half 2024				1st Half 2025				2nd Half 2025				1st Half 2026				2nd Half 2026				1st Half 2027				2nd Half 2027				1st Half 2028				2nd Half 2028				1st Half 2029				2nd Half 2029				1st Half 2030				2nd Half 2030																	
Month >>	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Division 9 (SCE) 234 buses	RFP				Construction																																																													
Division 18 (SCE) 221 buses					RFP Process				Design to 85%				Final Design & Construction																																																					
Division 7 (SCE) 173 buses					RFP Process				Design to 85%				Final Design & Construction																																																					
Division 5 (LADWP) 201 buses																	RFP Process				Design				Construction																																									
Division 13 (LADWP) 184 buses																					RFP Process				Design				Construction																																					

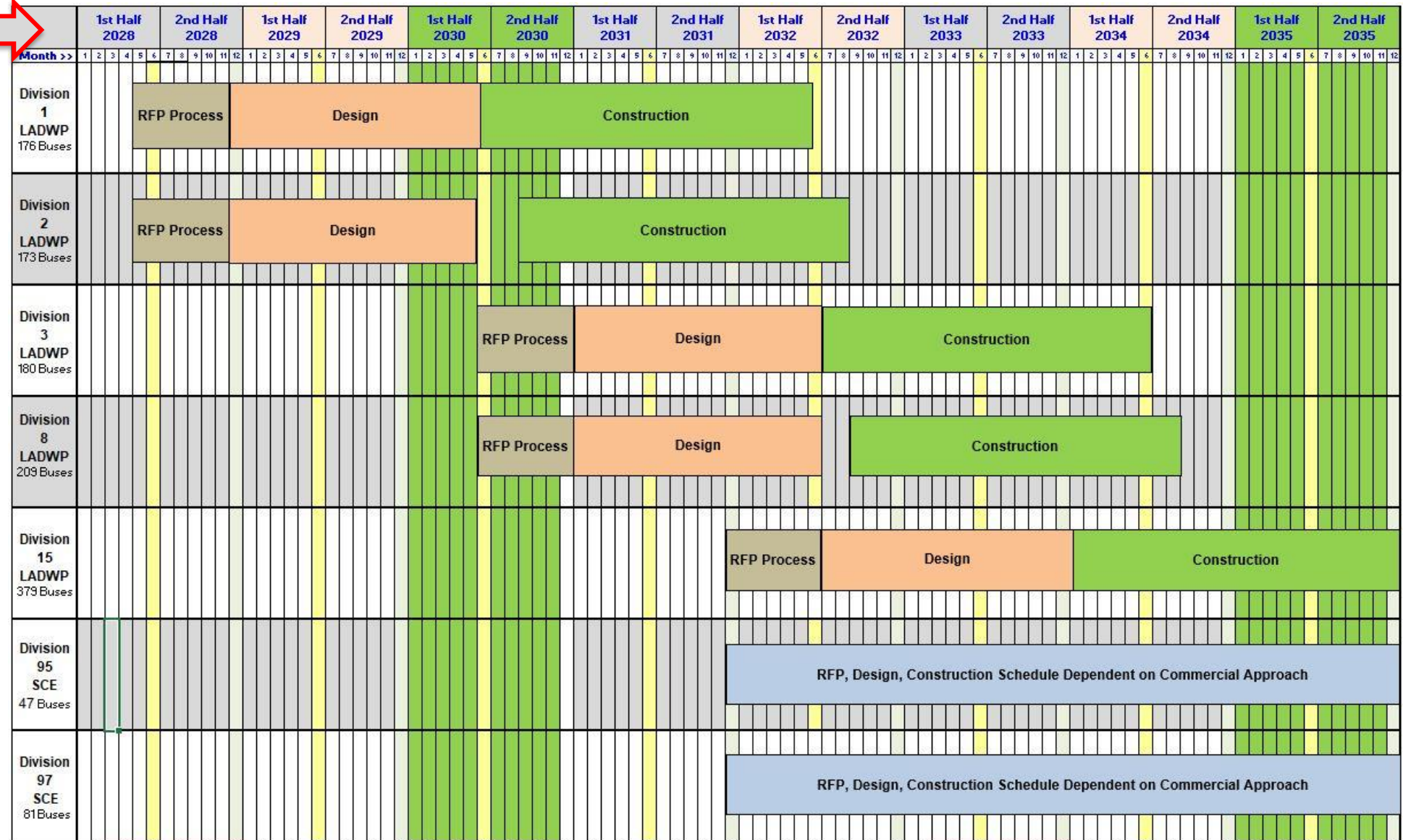


Division Electrification (Latter Five Divisions)



Electrification schedule for latter five divisions

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

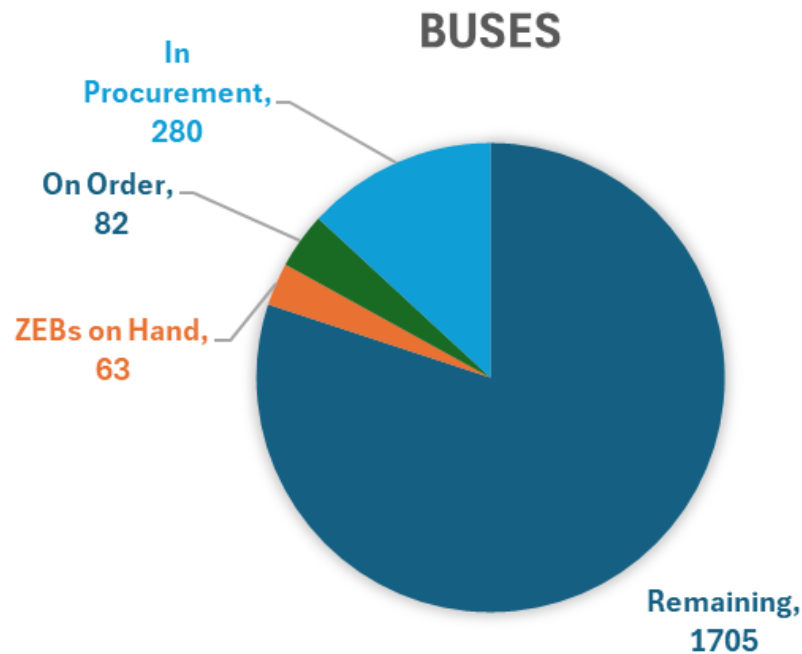


Status of Bus Acquisition



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

