



Board Report

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Agenda Number: 41.

OPERATIONS, SAFETY, AND CUSTOMER EXPERIENCE COMMITTEE JULY 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

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 to be electrified. The report also illustrates funding and schedule risks to the first half of the division electrification schedule. Because EFCs are often reliant on bus transit, 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

Vehicle Miles Traveled (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. These declining VMT trends are 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.

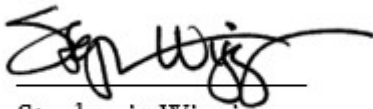
As part of these ongoing efforts, this item is expected to contribute to further reductions in VMT. This item supports Metro's systemwide strategy to reduce VMT through operational activities that will maintain and encourage transit ridership. Metro's transition to a ZEB fleet will enhance customer experience with vehicles that are quiet and use zero-emission technology. Metro's Board-approved

VMT reduction targets were designed to build on the success of existing investments, and this item aligns with those objects.


*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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A handwritten signature in black ink, appearing to read 'Step Wiggins', written over a horizontal line.

Stephanie Wiggins
Chief Executive Officer



Zero Emission Bus (ZEB) Program Quarterly Update

VEHICLE ENGINEERING & ACQUISITION



Metro®

Charging Infrastructure Project Updates



Division 9 & EMTC

- Final gantry truss erected in May
- Opportunity chargers to be commissioned by September

Division 18 & 7

- Proposals due July 16
- Anticipated award Jan 2026

Opportunity Charging Equipment

- Charging equipment procurement closed in May
- Design begun for North San Fernando Valley and NoHo Transit Center



Photo: Division 9 gantry structure

J Line Electrification

- Anticipated completion by end of calendar year

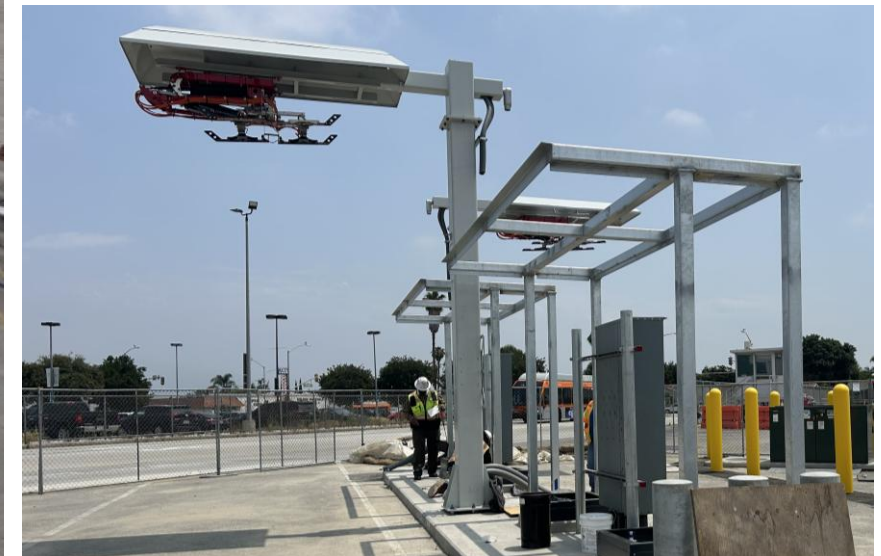
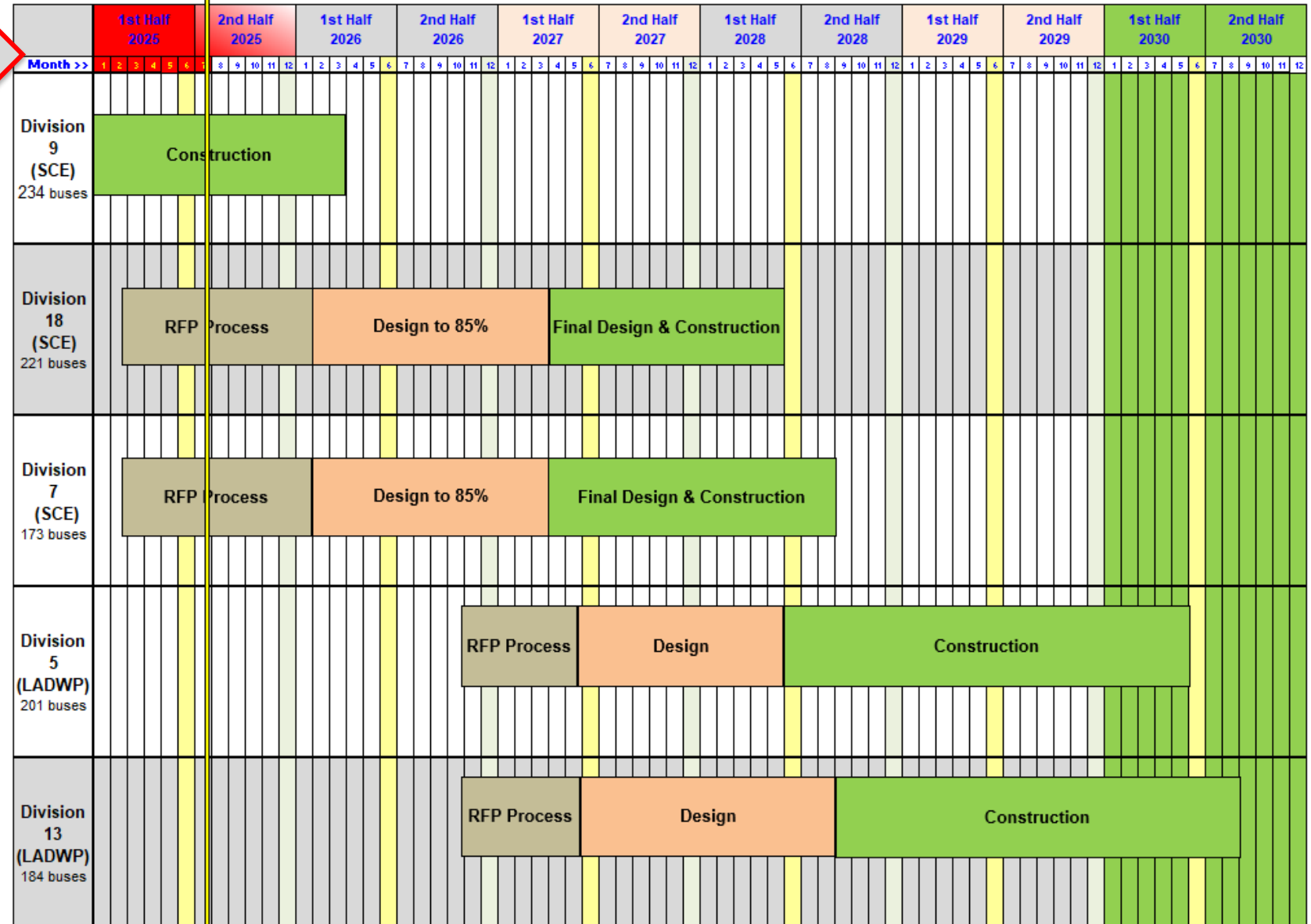


Photo: Division 9 opportunity charger

Status of Division Electrification (First Five Divisions)



Electrification
schedule for
first five
divisions

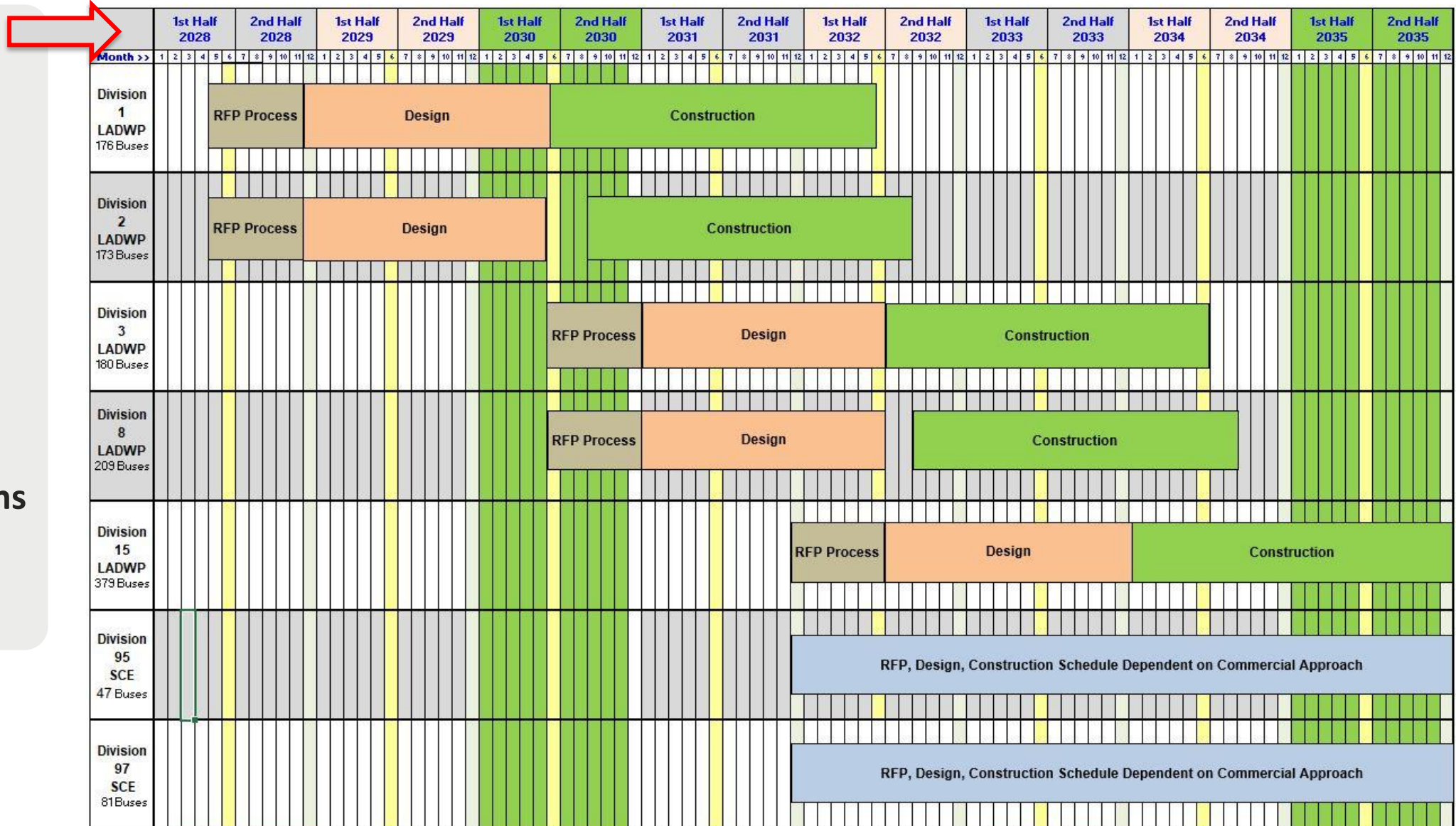


Division Electrification (Latter Five Divisions)



**Electrification
schedule for
latter five
divisions**

**Evaluating
technical and
commercial
approaches for
Contract
Service Divisions
95 & 97**



Status of Bus Acquisition



Current Fleet

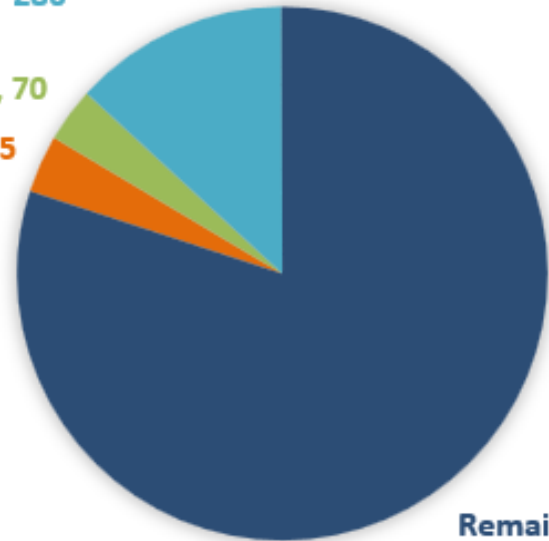
- 3.5% of fleet converted to ZEB*

ZERO EMISSION BUSES

In Procurement,
280

On Order, 70

ZEBs On Hand, 75



Remaining, 1705

*Assumed future fleet size of 2,130 buses
Data as of 6/24/25



Metro

Regional Bus Procurement

- Will bring recommendation for award to Board in Fall 2025
- 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 continues to struggle with adhering to delivery schedule. They are 13 buses behind schedule. Metro is calculating liquidated damages (LDs) for delayed buses.
- 25 of 95 K9MD buses have been delivered.
- 9 of 25 delivered have been returned for quality control issues (system integration, schematic non-compliance, etc.)
 - BYD has 10 days to cure non-accepted items before LDs are applied.
- Critical that buses arrive before end of calendar year and that BYD is proactive in supporting performance issues to achieve J Line electrification.

Grant Updates and Continuing Activities



Recent Grant and Funding Applications

- \$24.9M awarded through Local Partnership Program
- Submitted \$104.6M CMAQ application for Div 7 buses & infra
- Preparing FTA Low or No Emission application due July 14th

Upcoming project activities

- Construction continues at Division 9
- Evaluation of Division 18 & 7 PDBOM
- Anticipate infrastructure and buses in place for J Line electrification by end of year



Photo: BYD K9MD bus at Harbor Gateway Transit Center

THANK YOU

