



Zero Emission Bus (ZEB) Program Quarterly Update

VEHICLE ENGINEERING & ACQUISITION



Metro®

Charging Infrastructure Project Updates



Division 9 & El Monte Transit Center

- Final gantry truss erected in May
- Roofing and shade sails install ongoing
- Opportunity chargers commissioning phase

Division 18 & 7

- Recommended award to Board in December

J Line Electrification

- Daily average of 13 battery electric buses (BEBs) running on the line
- Harbor Gateway Transit Center in-use for layover charging
- Anticipated complete by end of calendar year



Photo: Division 9 Bus Yard Opportunity Chargers



Opportunity Charging Sites (Countywide)

- Charging equipment procurement in blackout
- Advanced conceptual design and site conditions assessment to be complete this fall
- Prioritizing designs and delivery strategy for North Hollywood Transit Center, North San Fernando Valley Transit Improvements Project, and sites supporting Division 9 buses (sites in bold)

North Hollywood Transit Center
Universal / Studio City Station
Division 8 & 15 (for NSFV only)
Terminal 28
Figueria & 117th Layover
Artesia Station

Central Maintenance Facility
Canoga Station
Chatsworth Station
Maple Lot
Sylmar Metrolink Station

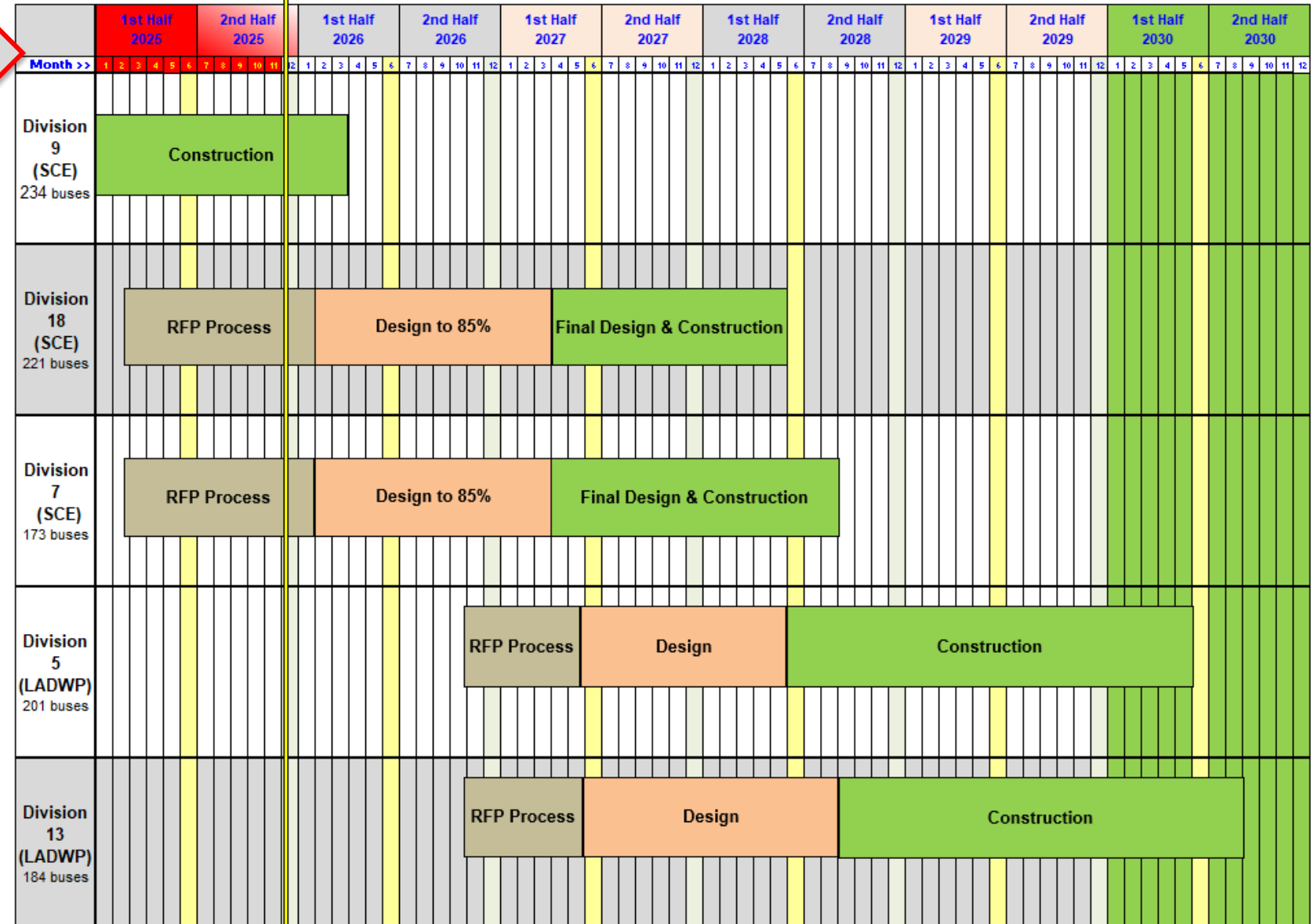
Status of Division Electrification (First Five Divisions)



**Electrification
schedule for
first five
divisions**

**Contract award for
18 & 7 two months
ahead of schedule.**

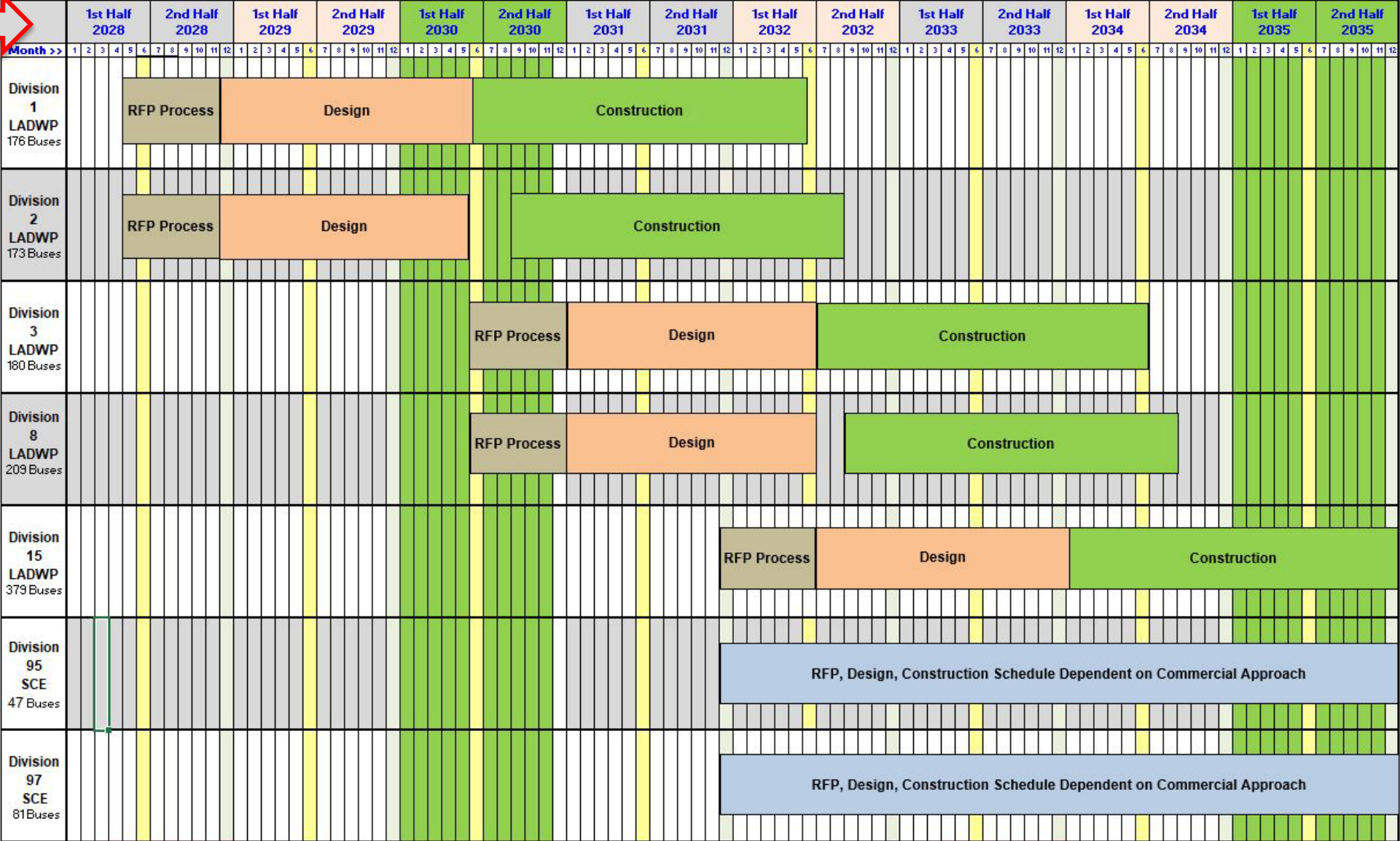
**NO CHANGE in
program schedule
since July '25
committee update.**



Division Electrification (Latter Five and Contract Service Divisions)



Electrification
schedule for
latter five
directly-
operated and
two contract
service divisions

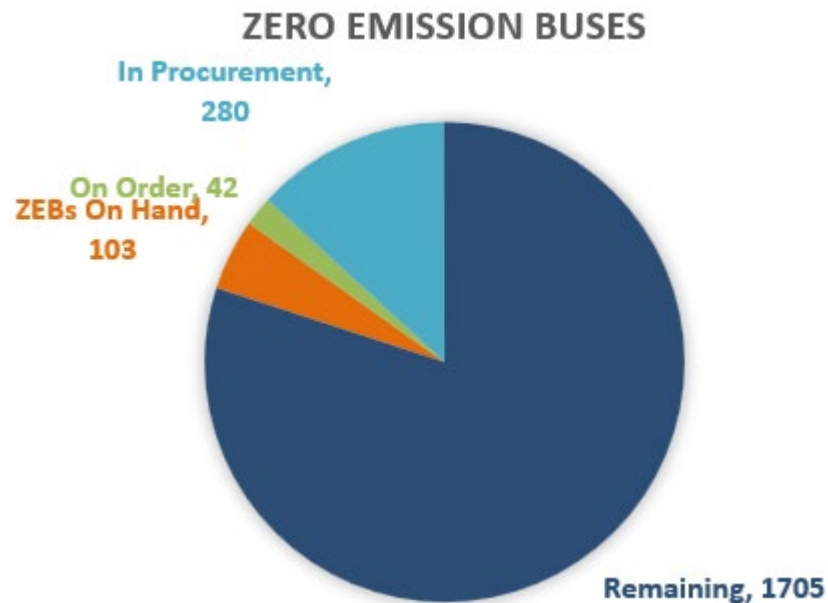


Status of Bus Acquisition



Current Fleet

- 4.8% of fleet converted to ZEB*



*Assumed future fleet size of 2,130 buses
Data as of 10/17/25



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Regional Bus Procurement

- Staff cancelled procurement due to major safety, schedule, and cost concerns.
 - Proposers could not meet requirement for fully enclosed operator compartment and driver exit window.
 - Highest scoring technical proposal did not include schedule that met Metro's requirements.
 - Highest scoring proposal returned base buy cost estimate 7.4% above Metro's cost estimate – a \$36.5 million cost impact.

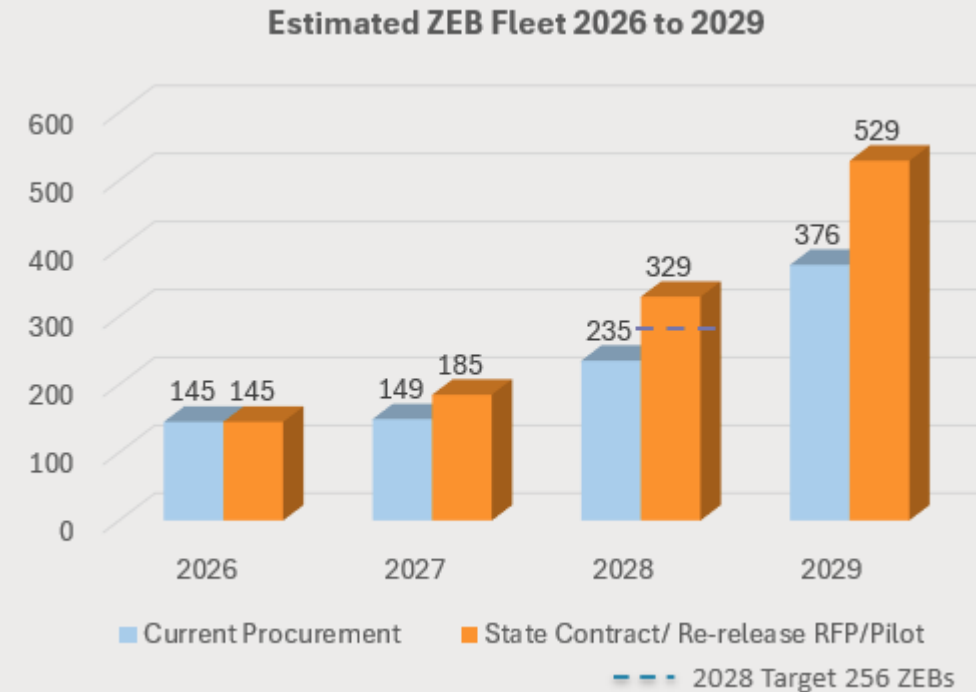
BYD Bus Deliveries

- 53 of 95 K9MD buses have been delivered
- BYD is currently 30 buses behind schedule
 - Liquidated damages (LDs) for delayed buses and manuals
- Challenges persist in achieving delivery targets, ensuring quality control on the production line, and providing warranty support.

Bus Procurement Approach



- **State contract**
 - Shorter lead times
 - Estimated delivery up to 40 BEBs in 2027
- **Re-release RFP**
 - Additional competition
 - Meet safety requirements
 - Encourage growth of bus OEMs in the U.S. market
 - Meet Metro schedule for CNG bus Replacement, infrastructure implementation and 2035 zero-emission goal.
- **Pilot with International OEM**
 - New technology to drive continuous improvement
 - Promote the entry of new OEMs and support their investments in the U.S. market.



Program Funding Status



Infrastructure & Bus Funding

- More than \$1.5 billion in federal, state, and local funding secured to date.
- Metro is awaiting award decisions for the following applications:
 - **\$9 million** for buses from Affordable Housing & Sustainability Communities program
 - **\$104.6 million** for Division 7 buses and infrastructure from Congestion Mitigation & Air Quality program
 - **\$95 million** from Low or No Emissions and **\$39 million** from Bus & Bus Facilities programs for Division 5 buses and infrastructure.*



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*** FTA will prioritize low emission over zero emission projects and has allowed grantees to change zero emission awards to low emission.**

Infrastructure

Project	% Funded
Division 9	100%
Division 18	100%
Division 7	70%
NH2P BRT & NSFV TIP	100%
Hydrogen Fueling	0%
Division 5	0%

Buses

Project	% Funded
(40) State Contract BEBs	100%
(20) State Contract FCEBs	0%
(220) BEB Base Buy	100%
(20) BEB Pilot Buses	0%
(173) Division 7 Buses	87%
(201) Division 5 Buses	0%

Grant Updates and Continuing Activities



Upcoming project activities

- Division 18 & 7 Progressive Design Build Operate and Maintain (PDBOM) contract Phase 1 will commence should the Board approve the contract recommendation.
- Anticipate achieving J Line electrification by end of year.
- Hydrogen Fueling Infrastructure Feasibility Study for 20 fuel cell electric buses (FCEBs).
- Integrate non-revenue charging and maintenance strategies into planning efforts.



Photo: BYD K9MD bus at Harbor Gateway Transit Center

THANK YOU

