

2024-1073 ZERO EMISSION BUS CHARGING INFRASTRUCTURE FOR DIVISION 18 AND 7



Metro®

DIVISION 18 & 7 ELECTRIFICATION



- RFP to electrify divisions through a Progressive Design Build Operate Maintain (PDBOM) contracting approach:
 - Design and construction of electrical upgrades and civil infrastructure
 - procurement of charging equipment and charge and energy management
 - Utility coordination with SCE
 - O&M of charging equipment to performance standards required by the contract
 - Development of a training program for Metro workforce on O&M of charging equipment
- Buses will be purchased in the open regional bus procurement



Division 18 located in the City of Gardena
Division 7 located in the City of West Hollywood

PROJECT GOALS



- Advance the transition of Metro's bus fleet to **100% zero emissions**
- **Minimize construction impacts** to Metro bus operations during the Project
- Establish an **operations and maintenance** regime to ensure reliable operation and availability of charging infrastructure to Metro
- Optimize bus charging **electricity costs**



Facility concept rendering from ZEB Program Master Plan (2023)

A PDBOM APPROACH WOULD OFFER



- Efficient risk allocation and pricing of risk of emerging technologies
- Competition and selection of a qualified contractor and single point of contact to deliver the full scope across all project phases
- Collaboration between Metro and the contractor to develop a scope of work that delivers a high-quality project throughout the design, construction, and operations and maintenance phases
- Reduced contractor risk premiums and claims over the life of the project as well as reduced probability and impact of risks that are retained by Metro
- Optimized interface management with both other Metro projects and bus service delivery
- Performance-based operations and maintenance phase that includes deductions for failure to meet performance requirements and incentives for meeting or exceeding performance requirements

PROGRESSIVE DESIGN BUILD, OPERATE AND MAINTAIN



PHASE 1 – PRECONSTRUCTION SERVICES | Est. January 2026 – March 2027

1. Project Administration
2. Evaluation of charging equipment and charge management system
3. Design development (30%, 60%, 85%)
4. Opinions of Probable Cost at Design Intervals
5. Utility coordination with Southern California Edison (SCE)

PHASE 2 – FINAL DESIGN & CONSTRUCTION | Est. April 2027 – May 2028

1. Final Design and Construction
2. Long Lead Item Procurement – will commence after Step 2 in Phase 1 above

PHASE 3 – EV CHARGING OPERATIONS AND MAINTENANCE | June 2028

1. 6 Year Base
2. 3 One-Year Options

RECOMMENDATION



1. **CONSIDER** finding that authorization of the use of alternative delivery methods, including Progressive Design Build Operate Maintain (PDBOM), pursuant to Public Utilities Code Section 130242 (b), will achieve integration of design, project works, and operations and maintenance of charging equipment in an efficient manner for ZEB Charging Infrastructure Projects at Divisions 18 & 7.
2. **APPROVE** a competitive solicitation of a PDBOM contract to achieve the proposed design approach, specific project features and functions, and other project criteria in addition to price, pursuant to Public Utilities Code 130242 (e).