



Expansion of Scope of South Base BEB Infrastructure Procurement



Finance Committee - July 12, 2023

Finance Committee Agenda Item

- 8.b.4** Authorize Expansion of Scope of the South Base Battery Electric Bus (BEB) Infrastructure Project Procurement

Background

- South Base BEB Infrastructure Project (Project) is an essential component of the District's Innovative Clean Transit (ICT) Plan that guides the District's transition to a 100% zero emission fleet as mandated by the California Air Resources Board
- District has procured BEBs to replace 37 end-of-life diesel buses
- Project will construct charging infrastructure in South Base for the 37 BEBs procured by the District



BEB Charging Infrastructure at South Base

Charging Infrastructure for 37 BEBs at South Base



Project Procurement

- In December 2022 the Board authorized the Construction Management General Contractor (CMGC) delivery method for construction of charging infrastructure at South Base for 37 BEBs only
- Board authorization is required for alternative project delivery methods such as CMGC

CMGC Features*

- Contractor selected based on qualifications and expertise
- Early collaboration among SamTrans, designer, contractor, & PG&E
- Contractor input during design phase
 - Minimizes design-related change orders
 - Provides opportunities to shorten the schedule
- Integrates use of options to award distinct scopes of work

* Not achievable through traditional D-B-B delivery method

Current Procurement Scope

- Charging infrastructure at South Base for 37 BEBs
- Cost Estimate for Construction: \$23 - \$28 million
- Expected Contract Completion: mid to late 2026
- Procurement to proceed in 2023
- Does not include charging infrastructure for additional BEBs that could be procured based on an updated ICT Plan

ICT Plan - Recommended Updates*

- Replace entire North Base fixed-route diesel fleet with hydrogen fuel cell electric buses (FCEBs)
- Decide in 2024 on which type of zero emission bus would replace the remaining fixed-route diesel fleet at South Base: BEBs, FCEBs, or a combination of both

* Based on staff recommendations at March 2023 Special Board Meeting

ICT Plan – Updated Fleet Procurement

Zero Emission Buses (ZEBs)	Purchase Year												Total ZEBs
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
	Procured			To be Procured									
FCEBs (North Base)	0	10	0	105	26	0	0	0	0	0	0	31	172
BEBs (South Base)	7	30	0										37
ZEBs (South Base)				0	36	0	0	0	50	0	0	24	110
	7	40	0	105	62	0	0	0	50	0	0	55	319

Why expand scope of CMGC Procurement?

- Eliminates need to procure a new contract to construct additional BEB infrastructure if the Board decides in 2024 to purchase additional BEBs for South Base
- Reduces procurement costs and shortens Project schedule
- Scope is expanded by including a contract option to construct charging infrastructure for up to an additional 110 BEBs
- Board would retain authority to determine whether to exercise the option

Expanded Procurement Scope

- Charging Infrastructure at South Base for 37 BEBs
- Plus: Option for charging infrastructure at South Base for up to an additional 110 BEBs
- Construction Cost Estimate:

Charging for 37 BEBs: \$23 - \$28 million

Charging for 110 BEBs: \$60 - \$65 million

Total: \$83 - \$93 million

Progress Update

- North Base (NB): 1 BEB delivered in November 2022
16 BEBs expected in Summer 2023
Total - NB: 17 BEBs
- South Base (SB): 20 BEBs expected in late 2024
- Interim chargers required at NB & SB to charge BEBs until permanent BEB charging infrastructure is installed at SB in 2026
- 17 BEBs to be transferred from NB to SB in 2026
- Interim chargers to be used for zero emission paratransit vehicles

North Base

- Interim charging for 17 BEBs
- Construction work is complete
- 10 chargers commissioned in May 2023



South Base

- Interim charging for 20 BEBs
- Construction work is in progress
- 10 chargers scheduled to be commissioned by late 2024



Funding

- Secured funding for construction of charging infrastructure for 37 BEBs
 - Federal – FTA \$ 8.7 million
 - State – LCTOP \$ 4.6 million
 - State – LPP \$14.8 million (competitive)
 - Sales Tax \$ 4.5 million
 - Total \$32.6 million (Construction + Soft Costs)

Funding (cont'd.)

- Funding for construction of charging infrastructure for additional 110 BEBs is TBD
- Funding Opportunities:
 - FTA Low-No Competitive
(annual, next opportunity Spring 2024)
 - State LPP Competitive
(biannual, next opportunity mid-2024)

Next Steps

- Expand the scope of the CMGC procurement by adding an option for construction of charging infrastructure for up to 110 BEBs
- Make a decision by 2024 on which type of zero emission bus should replace the remaining fixed route diesel fleet at South Base
- Seek outside funding for zero emission infrastructure and vehicles

Q & A



Thank You



Please email laranol@samTrans.com with any questions.