



**East Bay  
Paratransit**

## **Zero-Emission Vehicle (ZEV) Rollout Plan**



**June 28, 2023**

# **East Bay Paratransit Zero-Emission Vehicle Rollout Plan**

## **Section A: Transit Agency Information**

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EBPC is not part of a Joint Zero-Emission Bus Group.

## **Section B: Rollout Plan General Information**

The EBPC Zero-Emission Vehicle (ZEV) Rollout Plan serves as a blueprint to achieve a full transition to zero-emission technologies by 2040.

The Alameda-Contra Costa Transit District (AC Transit) and the Bay Area Rapid Transit District (BART) formed the East Bay Paratransit Consortium (EBPC) in 1994, via a Joint Powers Agreement (JPA). EBPC provides Americans with Disability Act (ADA) complementary paratransit in the agency's overlapping service area. This service is provided to individuals with a physical or cognitive disability that prevents them from utilizing the fixed-route bus or rail system independently.

EBPC contracts with a Broker, currently Transdev, who in turn contracts with Service Providers (SP's). The Broker is responsible for, among other things, paratransit eligibility determinations, reservations, scheduling, dispatching, customer service, reporting and monitoring of the SP's.

The SP's, currently First Transit, MV Transportation and Rydetrans, are responsible for the operation and maintenance of the drivers and vehicles in East Bay Paratransit (EBP) service.

In May, 2023 both the AC Transit and BART Board of Directors approved a one (1) year contract extension with the Broker and the SP's for a contract term beginning July 1, 2023 through June 30, 2024.

A Request for Proposal (RFP) for the Broker/Service Providers to the EBPC will be released in the first quarter of fiscal year (FY) 23/24. An award is expected by January 1, 2024. This plan will be included in the RFP in order for all prospective bidders to understand the direction that EBPC is taking with regard to ZEV transition/rollout.

EBPC's ZEV Transition Plan serves as a blueprint for how the Consortium is planning to achieve a full transition to zero-emission technologies by 2040, considering minimum useful life of the vehicles.

The AC Transit Board of Directors, on behalf of the Consortium, approved the EBPC ZEV Rollout Plan on June 28, 2023. A copy of Board Resolution 23- 029 is attached.

### **Section C: Technology Portfolio**

EBPC plans to utilize battery electric technology in order to comply with the Innovative Clean Transit (ICT) regulations.

### **Section D: Current Bus Fleet Composition and Future Bus Purchases**

**Table 1. Current Bus Fleet**

Number of Buses	Bus Model Year	Fuel Type	Bus Type
24	2014	Gasoline	Cutaway
1	2015	Gasoline	Cutaway
10	2016	Gasoline	Cutaway
20	2017	Gasoline	Cutaway
19	2018	Gasoline	Cutaway
78	2019	Gasoline	Cutaway
15	2020	Gasoline	Cutaway
<b>167</b>			

**Table 2. Future Bus Purchases**

Year	Total Bus Purchases	ZEB Purchase Requirements	ZEB Purchases	ZEB Type	ZEB Fuel Type	Conventional Bus Purchases	Conventional Bus Type	Conventional Fuel Type
2024	55	0%	0	Cutaway	N/A	55	Cutaway	Gasoline
2025	19	0%	0	Cutaway	N/A	19	Cutaway	Gasoline
2026	78	25%	19	Cutaway	Battery Elec.	59	Cutaway	Gasoline
2027	15	25%	3	Cutaway	Battery Elec.	12	Cutaway	Gasoline
2028	33	25%	8	Cutaway	Battery Elec.	25	Cutaway	Gasoline

2029	0	100%	0	N/A	N/A	0	N/A	N/A
2030	0	100%	0	N/A	N/A	0	N/A	N/A
2031	63	100%	63	Cutaway	Battery Elec.	0	N/A	N/A
2032	27	100%	27	Cutaway	Battery Elec.	0	N/A	N/A
2033	86	100%	86	Cutaway	Battery Elec.	0	N/A	N/A
2034	24	100%	24	Cutaway	Battery Elec.	0	N/A	N/A

## **Section E: Facilities and Infrastructure Modifications**

Division/Facility Name *	Address	Main Functions	Types of Infrastructure	Service Capacity (bus number)	Needs Upgrade?	Estimated Construction Timeline
MV Transportation	1944 Williams St. San Leandro, CA 94577	Maintenance & Fueling	Charging Station	57-70 buses	Yes	2026 - install 6 charging stations
First Transit, Inc.	411 High St. Oakland, CA 94601	Maintenance & Fueling	Charging Station	57-70 buses	Yes	2026 - install 6 charging stations
RydeTrans	1400 Doolittle Dr. San Leandro, CA 94577	Maintenance & Fueling	Charging Station	57-70 buses	Yes	2026 - install 6 charging stations

\*The Service Providers (SP's) facility addresses listed are operating under a one (1) year contract extension and may/may not be a part of the EBPC system in 2026. Service Providers will be identified after January 1, 2024 for a contract term beginning July 1, 2024 through June 30, 2029, with an additional five (5) year option.

Following the identification of the permanent SP facility addresses the SP's, under the direction and supervision of the EBPC Program Managers will:

- engage P.G. & E
- evaluate the sites, service and infrastructure needs
- explore the EV rate structure
- plan electrical upgrades and construction of supporting structures, if necessary
- design the layout and operations of the updated facilities

## **Section F: Providing Service in Disadvantaged Communities**

1. Does your transit agency serve one or more disadvantaged communities, as listed in the latest version of CalEnviroScreen?

Yes. EBP travels into, out of and through disadvantaged communities throughout our service area based on ride requests received. The scheduling software system (Adept) has the ability to create zones. Prior to zero-emission vehicles being placed into service disadvantaged

communities can be identified and to the maximum extent practicable vehicles can operate within these zones.

The following table is a list of some of the lowest ranking census tracts that are served by East Bay Paratransit.

City	Census Tract	CalEnviroScreen 4.0 Percentile
San Francisco	6075023001	87
San Francisco	6075023400	84
San Francisco	6075023200	92
San Francisco	6075023102	84
San Francisco	6075023103	88
San Francisco	6075980600	83
Richmond	6013376000	93
Richmond	6013377000	92
Richmond	3013379000	93
El Cerrito	6013382000	93
Oakland	6001402200	93
Oakland	6001410500	91
Oakland	6001403000	91
Oakland	6001406100	94
Oakland	6001407300	98
Oakland	6001408800	96
Oakland	6001408900	90
Oakland	6001409500	91
Oakland	6001409000	97
Oakland	6001409100	94

## **Section G: Workforce Training**

EBPC will utilize the training provided by the vehicle and charger manufacturers for the training of all staff on battery electric vehicle and charging technologies.

Year	Training Program/Class	Purpose of Training	Name of Provider *	Number of Trainees	Trainees' Positions	Training Hours	Training Frequency	Estimated Costs Per Class
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2026	OEM Training Provided	Maintenance	MV Transportation First Transit, Inc. RydeTrans	250	Drivers Maintenance Safety Personnel Supervisors Training Staff	TBD by OEM	Initial, and then as needed	TBD by OEM, included in cost of vehicle
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## **Section H: Potential Funding Sources**

With the submission of this ZEV Rollout Plan EBPC will aggressively pursue all local, regional, state and federal funding sources and programs in order to finance the plan.

Initially, EBPC intends to purchase up to three (3) battery electric vehicles and appropriate charging units to implement a pilot program prior to 2026.

### **Cost of ZEB Purchases**

Year	Number of ZEB Purchases	Cost Range
2026	19	\$3,628,000 to \$4,838,000
2027	3	\$590,000 to \$787,000
2028	8	\$1,621,000 to \$2,161,000
2029	0	0
2030	0	0
2031	63	\$13,947,000 to \$18,596,000
2032	27	\$6,157,000 to \$8,209,000
2033	86	\$20,198,000 to \$26,931,000
2034	24	\$5,806,000 to \$7,741,000

### **Cost of Charging Stations**

Year	Number of Charging Stations Purchased	Cost Range
2026	19	\$302,000 to \$605,000
2027	3	\$49,000 to \$98,000
2028	8	\$135,000 to \$270,000

## **Section I: Start-up and Scale-up Challenges**

The single largest challenge faced by EBPC, in order to implement the ZEV Rollout Plan, is the identification and securement of funds to ensure a successful transition.

Another challenge, given the status of EBPC's one-year (1) contract extension with the Broker/SP's and the release of the Broker/SP RFP, is to ensure the appropriate timing of infrastructure modifications and upgrades as well as vehicle purchases.

Note: Resolution will be attached to the Staff Report.