

Legislation Text

File #: AI-2021-175, **Version:** 1

SUBJECT:

Approval of a resolution authorizing the President & CEO or his designee, to finalize and execute contracts with New Flyer of America Inc. and Proterra Inc., to purchase up to 197 battery electric transit buses, vehicle chargers, and related equipment over a five-year period in a total amount not to exceed \$ 254,984,090.

FISCAL IMPACT:

Funding for this action is available in the FY2022 Proposed Budget and through a capital contribution from the Austin Transit Partnership.

STRATEGIC PLAN:**Strategic Goal Alignment:**

- | | | |
|---|--|---|
| <input type="checkbox"/> 1. Internal/External Customer Service Excellence | <input type="checkbox"/> 2. Stakeholder Engagement | |
| <input checked="" type="checkbox"/> 3. Financial and Environmental Sustainability | <input type="checkbox"/> 4. Staff Development | <input checked="" type="checkbox"/> 5. Agency Growth Management |

Strategic Objectives:

- | | | |
|---|---|---|
| <input type="checkbox"/> 1.1 Safety & Risk | <input type="checkbox"/> 1.2 Continuous improvement | <input type="checkbox"/> 1.3 Dynamic Change |
| <input type="checkbox"/> 1.4 Culture of Innovation | <input type="checkbox"/> 2.1 Be an Employer of Choice | <input type="checkbox"/> 2.2 Organization Development |
| <input type="checkbox"/> 2.3 Organization Culture | <input checked="" type="checkbox"/> 3.1 Resource optimization | <input type="checkbox"/> 3.2 Safety Culture |
| <input type="checkbox"/> 3.3 Environmental Leadership | <input type="checkbox"/> 4.1 Educate & Call to Action | <input type="checkbox"/> 4.2 Build Partnerships |
| <input type="checkbox"/> 4.3 Value of Transit | <input checked="" type="checkbox"/> 4.4 Project Connect | |

EXPLANATION OF STRATEGIC ALIGNMENT: This item will allow for the replacement of transit buses used on fixed route services, and for fleet expansion to support new MetroRapid routes. The buses being replaced have exceeded their useful life and need replacement to maintain a state of good repair.

BUSINESS CASE: To maintain a state of good repair of the bus fleet and to support expanded services, Capital Metro establishes a fleet plan for vehicle purchases. This item will allow for the replacement of up to 124 vehicles, and the expansion of up to 73 vehicles, over the next five years, under the fleet plan. The buses being retired have exceeded their scheduled useful life, and the expansion vehicles are needed to meet projected

growth, including as a part of Project Connect.

COMMITTEE RECOMMENDATION: This item was presented and recommended for approval by the Operations, Planning and Safety Committee on September 15, 2021

EXECUTIVE SUMMARY: The Capital Metro fleet plan calls for the scheduled replacement of transit vehicles that have reached or exceeded their useful life, and for the purchase of new vehicles to grow the fleet in support of service expansion. The Federal Transit Administration requires federally funded vehicles to be kept in service for a minimum of 12 years and these contracts will allow for replacement of up to 124 buses that will have exceeded 14 years of service at their retirement. These contracts will also allow for growth of up to 8 more local bus route vehicles and up to 65 vehicles in support of new MetroRapid routes, under Project Connect. Capital Metro is awarding multiple contracts to two vendors which have a combined base order of 56 forty-foot and sixty-foot, zero emission battery-electric transit buses, with options for up to 141 more of the same vehicles and optional equipment, including chargers, extended warranties, training, and custom engineering. The awards are contingent upon OEMs meeting or exceeding Pre-Award Buy America requirements.

DBE/SBE PARTICIPATION: DBE goals do not apply because the solicitation requires a Transit Vehicle Manufacturer (TVM) Certificate. Only those listed on FTA's eligible TVMs list, or those have submitted a goal methodology to FTA that has been approved or has not been disapproved, at the time of solicitation are eligible to bid. To remain eligible, TVMs must submit an annual DBE goal methodology to FTA by August 1 of each year. As of August 31, 2021, New Flyer of America and Proterra Inc. are listed as eligible vendors on FTA website, and they all have completed the required TVM Certification.

PROCUREMENT: On April 15, 2021, a Request for Proposals was issued and formally advertised. By the closing date of June 14, 2021, four (4) proposals were received.

The evaluation team used the following factors in the evaluation of proposals:

1. Demonstrated understanding of the vehicle requirements as described in Exhibit F-1, Technical Specifications: 40-foot and 60-foot Battery Electric Buses. Include details on:
 - a. Compliance to technical specifications;
 - b. Advantages of manufacturers solutions to requirements in technical specification;
 - c. Intuitive functionality of vehicle operation and maintenance;
 - d. Safety considerations in vehicle design;
 - e. Maintainability of vehicle;
 - f. Cleanability of vehicle;
 - g. Adaptability of vehicle to future innovative technology configuration changes;
 - h. Optimization of battery selection;
 - i. Vehicle range;
 - j. Robustness of bus equipment for charging; and

- k. Sustainability & environmental considerations in manufacturing, lifetime support, and at end-of-life for vehicles & chargers.
2. Past performance in delivering vehicles & equipment of similar design & similar quantities, including manufacturing capabilities. Includes details on:
- a. Applicability of presented projects of similar size, scope, and complexity;
 - b. Challenges encountered and their solutions;
 - c. Capability and capacity of manufacturing activities;
 - d. Qualifications of other firms and subcontractors utilized;
 - e. References supplied; and
 - f. Past performance questionnaires.
3. Methodology and Quality of Work Plans for Vehicle Configuration, Pilot Bus, Electronics and System Integrations, Post-Delivery In-Servicing, and Post-Delivery Support for both vehicles and chargers, including:
- a. Organization and completeness of proposed work plan;
 - b. Methodology and approach to configuring vehicle for production;
 - c. Problem solving and response to design and production issues;
 - d. Quality Assurance Program and Quality Control Processes;
 - e. Plan for Pilot Bus production, delivery, review, and handling of change requests;
 - f. Approach to add-on components and systems integration, installation and testing;
 - g. Plan for post-delivery acceptance, testing and vehicle make-ready; and
 - h. Plan for ongoing technical support and training for vehicles and chargers over the life of the contract.
4. Demonstrated understanding of the charger requirements as described in Exhibit F-1B, Technical Specifications: Chargers for Battery Electric Buses, including:
- a. Functionality and ease of use by operators, and yard personnel for each system proposed;
 - b. Safety considerations in the design of charging system(s);
 - c. Maintainability and remote monitoring capabilities of chargers end user;
 - d. Adaptability of chargers to charge management software;
 - e. Robustness and tolerance of charger and charging equipment; and
 - f. Protocol for commissioning of chargers, and post-commissioning field support.
5. Quality of vehicle appearance and holistic aesthetic including:
- a. contemporary design;
 - b. fit and finish, and robustness of interior and exterior body components and add-ons, including doors, windows, stanchions, seats, and access panels/doors;
 - c. comfort and usability of driver workstation, including layout of dash gauges, switches, monitors, mirrors, windows, visibility of passengers inside and outside of vehicle;
 - d. vehicle handling, cornering, responsiveness, turn radius, and ride smoothness and quality for driver

and passengers; and

- e. quiet operation of all aspects of vehicle.

6. Ability to meet the delivery schedule requirements of the Authority Quality as described in Exhibit G-1A and Exhibit G-1B.

- a. Pilot Bus Delivery Schedule
b. Production Bus Delivery Schedule

The proposals from New Flyer of America Inc. and Proterra Inc. were determined to be the best value to the Authority, price and other factors considered. The contracts are fixed price contracts. The term of the Contract is five (5) years with options to purchase additional buses at any time during the contract period, as follows:

BASE AWARD	Quantity	Cost	Extended
New Flyer of America Inc.			
40-ft Electric Bus	26	\$ 917,400	\$ 23,852,400
60-ft Electric Bus	4	\$ 1,366,500	\$ 5,466,000
Proterra Operating Company			
40-foot Electric Bus	26	\$ 912,471	\$ 23,724,246
VEHICLES BASE AWARD TOTAL			\$ 53,042,646
VEHICLE OPTIONS	Quantity	Cost	Extended
OPTION 1			
40-foot Electric Bus	40	\$ 917,400	\$ 36,696,000
OPTION 2			
40-foot Electric Bus	11	\$ 917,400	\$ 10,091,400
OPTION 3			
40-foot Electric Bus	52	\$ 917,400	\$ 47,704,800
60-foot Electric Bus	2	\$ 1,366,500	\$ 2,733,000
OPTION 4			
60-foot Electric Bus	8	\$ 1,366,500	\$ 10,932,000
OPTION 5			
40-foot Electric Bus	18	\$ 917,400	\$ 16,513,200
OPTION 6			
40-foot Electric Bus	5	\$ 917,400	\$ 4,587,000
60-foot Electric Bus	5	\$ 1,366,500	\$ 6,832,500
VEHICLES OPTIONS TOTAL			\$ 136,089,900

OPTIONAL ITEMS	Quantity	Cost	Extended
Charger, Depot Plug-In	197	\$ 30,285	\$ 5,966,145
Charger, Depot Overhead	197	\$ 114,400	\$ 22,536,800
Charger, On-Route Overhead	33	\$ 337,713	\$ 11,144,529
Extended Warranty, Bus Battery (12 yrs.)	197	\$ 59,188	\$ 11,660,036
Extended Warranty, Charger, Depot Plug-In (6 yrs.)	197	\$ 11,263.77	\$ 2,218,963
Extended Warranty, Charger, Depot Overhead (6 yrs.)	197	\$ 36,036.02	\$ 7,099,096
Extended Warranty, Charger, On-Route Overhead (6 yrs.)	33	\$ 57,135.60	\$ 1,885,475
Training Block (80 hours)	80	\$ 25,000	\$ 2,000,000
Engineering, Custom Lighting	2	\$ 30,000	\$ 60,000
Custom Lighting, 40-foot Bus	178	\$ 6,500	\$ 1,157,000
Custom Lighting, 60-foot bus	19	\$ 6,500	\$ 123,500
OPTIONAL ITEMS TOTAL			\$ 65,851,544
GRAND TOTAL VEHICLES & OPTIONAL ITEMS			\$254,984,089

RESPONSIBLE DEPARTMENT: Operations and Maintenance Oversight

**RESOLUTION
OF THE
CAPITAL METROPOLITAN TRANSPORTATION AUTHORITY
BOARD OF DIRECTORS**

**STATE OF TEXAS
COUNTY OF TRAVIS**

Ai-2021-175

WHEREAS, the Capital Metropolitan Transportation Authority Board of Directors and Capital Metro management endeavor to maintain their fleet in a state of good repair; and

WHEREAS, the Capital Metropolitan Transportation Authority Board of Directors and Capital Metro management recognize the need to expand the fleet to meet new service levels; and

WHEREAS, the Capital Metropolitan Transportation Authority Board of Directors and Capital Metro management recognize the advantages of purchasing zero emission vehicles.

NOW, THEREFORE, BE IT RESOLVED by the Capital Metropolitan Transportation Authority Board of Directors that the President & CEO, or his designee, is authorized to finalize and execute contracts with New Flyer of America Inc. and Proterra Inc., to purchase up to 197 battery electric transit buses, vehicle chargers, and related equipment over a five-year period in a total amount not to exceed \$ 254,984,089.

Date: _____

**Secretary of the Board
Eric Stratton**