Bus Fleet Strategy

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Transportation Committee
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Fleet Plan Objectives

• Goal is to have a near-term strategic framework for future bus procurements with the ultimate goal of moving to full electrification

• Replace existing fleet and expansion fleet

• Introduce a sufficient number of 40’ and 60’ electric buses to evaluate in the Metro Transit service environment
C-Line Characteristics and Infrastructure

• Operate 7 days/week in one of Metro Transit’s highest ridership corridors
• 17 mile round trip
• 8 Electric and 6 Diesel BRT 60’ Buses
• 3 door boarding
• 8 Garage chargers at FTH
• 2 On-route chargers at BCTC
On-Route Charging Characteristics

**ESTIMATED RANGE (W/12 MIN FAST CHARGE EACH TRIP)**

<table>
<thead>
<tr>
<th>Start</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
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<td>69.5</td>
<td>65.0</td>
<td>60.5</td>
<td>56.0</td>
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Electric Bus Evaluation

• Metro Transit is in a unique operational position of not having an immediate need for 40’ buses and is positioned to gain a better understanding of fleet electrification
  • Procure and Test 19 electric 40’ buses
    – Take a measured approach and thoroughly test in Metro Transit’s local route service environment
    – Gain a better understanding of operating, infrastructure and training needs
• Metro Transit is implementing all future ABRT routes with a fleet of at least 50% electric buses
  • Procure and Test 30 electric 60’ BRT buses
    – Learn the operational characteristics of on-route charging
    – The impact of 3 door bus operations in various weather conditions
Procurements 2019 - 2022

Receive - Test - Evaluate - Decide

Goal: 100% Electric Bus Delivery

Metro Transit
a service of the Metropolitan Council
Procurement Strategy

- Issue a 40’ Electric RFP
  - 19 electric 40’ buses with 46 options

- Issue a 60’ Electric and Diesel RFP
  - 30 electric 60’ buses with 22 options
  - 62 diesel 60’ buses with 22 options
2023 and 2024 Fleet Requirements

- **2023**
  - 60' Bus Fleet Requirements: 11
  - 40' Bus Fleet Requirements: 58

- **2024**
  - 60' Bus Fleet Requirements: 61
  - 40' Bus Fleet Requirements: 40
Questions