Metro’s Battery Electric Bus Overview

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Session 1: Planning Our Zero Emission Future at Scale

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System Overview

- **Bus Service**
  - Service Area of 1,433 sq. miles
  - 170 Bus Routes
  - Ridership of ~285 Million in 2017
- **Metro** has 14 Divisions with 2367 buses
  - 388 60 ft Buses
  - 1979 Non-Articulated Buses
    - 637 45 ft Buses
    - 1292 40 ft Buses
    - 50 32 ft Buses.
  - 3 Divisions are contracted (176 buses)
  - 3 Sub-fleets
    - Red Buses are Rapid
    - Poppy Buses are Local
    - Silver Buses are Express (Silver and Orange Line BRTs)
Zero Emission Bus (ZEB) Program

• Electrifying 2 Bus Rapid Transit (BRT) Lines
  1. Orange Line: ~7.4 million riders in 2017
     – 40 60 ft. buses covering ~1.9 million miles annually
  2. Silver Line: ~4.4 million riders
     – 45 45 ft. buses covering ~2.5 million miles annually

• Developing Zero Emission Bus Master Plan
  o Utilize Consultant Services to develop strategies to meet goal of 100% ZE Bus operations by 2030.

<table>
<thead>
<tr>
<th>Line</th>
<th>OEM</th>
<th>Length</th>
<th>Base Order (Option)</th>
<th>Battery Capacity (kW-hr)</th>
<th>Charging Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>New Flyer</td>
<td>60’</td>
<td>40 (65)</td>
<td>250</td>
<td>J1772 CCS1 (150 kW)</td>
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<tr>
<td></td>
<td>BYD</td>
<td>60’</td>
<td>5</td>
<td>610</td>
<td>BYD AC (200 kW)</td>
</tr>
<tr>
<td>Silver</td>
<td>BYD</td>
<td>40’</td>
<td>60 (40)</td>
<td>348</td>
<td>BYD AC (80 kW)</td>
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<td>SAE 3105-1 (450 kW)</td>
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<td>SAE 3105-1 (300 kW)</td>
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