

**#71, CDTA FLEET REPLACEMENTS**

<p><b>LOCATION:</b> CDTA Service Area  <b>DESCRIPTION:</b> Purchase of replacement fixed-route hybrid electric vehicles (about 27 vehicles)  <b>CATEGORY:</b> Transit  <b>COST:</b> \$16.50 M    <b>LIFE:</b> 12 Years  <b>SPONSOR:</b> CDTA  <b>CURRENT CONDITION:</b> Buses to be replaced are 12 years old  <b>FUNCTIONAL CLASS:</b> N/A  <b>AADT:</b> N/A  <b>ON PRIORITY NETWORK(S):</b> Transit</p>	<table border="1"> <thead> <tr> <th colspan="2"><b>BENEFIT/COST RATIO</b></th> <th style="text-align: right;"><b>9.8</b></th> </tr> </thead> <tbody> <tr> <td>TOTAL BENEFITS (\$k/yr)</td> <td></td> <td style="text-align: right;">\$11,796</td> </tr> <tr> <td>SAFETY</td> <td></td> <td style="text-align: right;">\$1,011</td> </tr> <tr> <td>TRAVEL TIME</td> <td></td> <td style="text-align: right;">\$1,814</td> </tr> <tr> <td>OPERATING/ENERGY*</td> <td></td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>ENERGY/USER</td> <td></td> <td style="text-align: right;">\$4,290</td> </tr> <tr> <td>LIFE CYCLE VALUE</td> <td></td> <td style="text-align: right;">\$2,145</td> </tr> <tr> <td>OTHER</td> <td></td> <td style="text-align: right;">\$2,536</td> </tr> <tr> <td>ANNUALIZED COST (\$k/yr)</td> <td></td> <td style="text-align: right;">\$1,199</td> </tr> </tbody> </table> <p>*includes gasoline usage and ownership costs</p>	<b>BENEFIT/COST RATIO</b>		<b>9.8</b>	TOTAL BENEFITS (\$k/yr)		\$11,796	SAFETY		\$1,011	TRAVEL TIME		\$1,814	OPERATING/ENERGY*		N/A	ENERGY/USER		\$4,290	LIFE CYCLE VALUE		\$2,145	OTHER		\$2,536	ANNUALIZED COST (\$k/yr)		\$1,199
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**CONGESTION RELIEF:** No measurable reductions in excess delay. VMT reduced by 6,093,638. This project will make the existing and planned transit services more attractive and popular, and thus increase transit use. CDTA carries 14M passengers per year, many of these passengers would use their private vehicle to travel if the bus service were not available.

**AIR QUALITY BENEFIT:** Hybrid-Electric technology reduces fuel consumption by over 4000 gallons, reduces CO<sub>2</sub> emissions by 35 tons and NO<sub>x</sub> by almost 0.6 tons annually. Volatile organic compounds reduced by 2,437 KG/year and NO<sub>x</sub> reduced by 3,169 KG/year.

**ENVIRONMENTAL MITIGATION:** N/A

**REGIONAL SYSTEM LINKAGE:** All of CDTA's buses have bike racks. CDTA serves the intercity bus stations and AMTRAK stations.

**LAND USE COMPATIBILITY (PLANNED OR EXISTING):** CDTA's Strategic Business Plan, Transit Development Plan, and internal 5 Year Capital Program.

**CONTRIBUTION TO COMMUNITY OR ECONOMIC DEVELOPMENT:** CDTA plays an important role in the community and has a good public image. If the service becomes unreliable, CDTA's image will become tarnished and ridership will suffer. Many people that use CDTA's service have no other reliable means to travel to where they need to go.

**ENVIRONMENTAL JUSTICE:** N/A

**BUSINESS OR HOUSING DISLOCATIONS:** N/A

<p><b>FACILITATES:</b>  <b>BICYCLING - Y</b>  <b>WALKING - Y</b></p>	<p><b>TRANSIT USE - Y</b>  <b>GOODS MOVEMENT - NA</b>  <b>INTERMODAL TRANSFERS - Y</b></p>
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**SPONSOR PRIORITY:** 1 of 14  
**SCREENING ISSUES:** NONE  
**OTHER CONSIDERATIONS:** 5309 candidate. Other sources being sought to subsidize hybrid propulsion.