

#75, NY 5 BUS RAPID TRANSIT *BUSPLUS* - COMPLETION OF FUNDING PACKAGE: CDTA

<p>LOCATION: On Route 5 between downtown Schenectady to downtown Albany (17 miles)</p> <p>DESCRIPTION: Limited stop operation at 18 paired stations, special branding, and short sections of dedicated bus lanes with hybrid electric BRT styled vehicles, GPS mobile data, advanced fare collection system, security cameras, real time next bus arrival signs, sidewalk, crosswalks, signal modifications and bike rack improvements, blue light phone for 911, public art and shared use park & ride lots.</p> <p>CATEGORY: Transit</p> <p>COST: \$22.0 M LIFE: 12 Years</p> <p>SPONSOR: CDTA</p> <p>CURRENT CONDITION: Not Completely Built</p> <p>FUNCTIONAL CLASS: Principal Urban Arterial</p> <p>AADT: ??</p> <p>ON PRIORITY NETWORK(S): Bike/Ped, Access Management, ITS, Transit</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BENEFIT/COST RATIO</td> <td style="text-align: right;">8.0</td> </tr> <tr> <td>TOTAL BENEFITS (\$k/yr)</td> <td style="text-align: right;">\$21,087</td> </tr> <tr> <td>SAFETY</td> <td style="text-align: right;">\$1,807</td> </tr> <tr> <td>TRAVEL TIME</td> <td style="text-align: right;">\$3,243</td> </tr> <tr> <td>OPERATING/ENERGY*</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td>ENERGY/USER</td> <td style="text-align: right;">\$7,669</td> </tr> <tr> <td>LIFE CYCLE VALUE</td> <td style="text-align: right;">\$3,835</td> </tr> <tr> <td>OTHER</td> <td style="text-align: right;">\$4,533</td> </tr> <tr> <td>ANNUALIZED COST (\$k/yr)</td> <td style="text-align: right;">\$2,626</td> </tr> </table> <p style="font-size: small;">*includes gasoline usage and ownership costs</p>	BENEFIT/COST RATIO	8.0	TOTAL BENEFITS (\$k/yr)	\$21,087	SAFETY	\$1,807	TRAVEL TIME	\$3,243	OPERATING/ENERGY*	N/A	ENERGY/USER	\$7,669	LIFE CYCLE VALUE	\$3,835	OTHER	\$4,533	ANNUALIZED COST (\$k/yr)	\$2,626
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CONGESTION RELIEF: No measurable reductions in excess delay. VMT reduced by 10,893,200. The BRT is expected to attract more riders taking more personal vehicles off Route 5.

AIR QUALITY BENEFIT: Hybrid-Electric technology reduces fuel consumption by over 4000 gallons, reduces CO₂ emissions by 35 tons, VOC by 4,357 KG and NO_x by almost 0.6 tons annually.

ENVIRONMENTAL MITIGATION: Within 0.25 miles of a rare animal population, an aquifer, several water features, several wetlands, 100 year Flood Plain, several National Register Historic Districts and Class 1 & 2 Soils

REGIONAL SYSTEM LINKAGE: The BRT will serve both the Schenectady and Rensselaer and AMTRAK stations.

LAND USE COMPATIBILITY (PLANNED OR EXISTING): NY5 BRT, New Visions 2030. The NY5 BRT was designed as an integral part of the Route 5 corridor-length access management plan

CONTRIBUTION TO COMMUNITY OR ECONOMIC DEVELOPMENT: Jobs will be created during both the construction and operation phases.

ENVIRONMENTAL JUSTICE: Low Income and Minority

BUSINESS OR HOUSING DISLOCATIONS: N/A

<p>FACILITATES:</p> <p>BICYCLING - Y</p> <p>WALKING - Y</p>	<p>TRANSIT USE -Y</p> <p>GOODS MOVEMENT -NA</p> <p>INTERMODAL TRANSFERS -Y</p>
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SPONSOR PRIORITY: 2 of 14

SCREENING ISSUES: NONE

OTHER CONSIDERATIONS: ARRA TIGER candidate. Would complete the NY 5 BRT System.