

Table 9: 2019–2040 Fleet Replacement Cost Comparison

2019-2040 Fleet Replacement and Associated Infrastructure Cost Comparison between Diesel-Hybrid and BEBs (2019 \$ million); assuming electrification by 2040		Favorable BEB		Moderate Case	
		BEB - Battery Electric Bus Replacement	Continuing Current Fleet Use of Hybrids	BEB - Battery Electric Bus Replacement	Continuing Current Fleet Use of Hybrids
<b>Capital</b>	Vehicle Purchase Price	\$666	\$646	\$832	\$656
	Modifications & Contingency	\$35	\$33	\$36	\$33
	Charging/Fueling Infrastructure	\$131	\$10	\$163	\$12
	<i>Total Capital Costs</i>	<i>\$832</i>	<i>\$689</i>	<i>\$1,032</i>	<i>\$701</i>
<b>Operating</b>	Vehicle Maintenance	\$286	\$348	\$636	\$372
	Vehicle Tires	\$19	\$19	\$19	\$19
	Vehicle Fuel/Charging Costs <sup>13</sup>	\$104	\$172	\$88	\$132
	Charging/Fueling Infrastructure	\$1	\$0	\$2	\$0
	Battery Replacement <sup>14</sup>	\$32	\$3	\$80	\$6
	<i>Total Operating Costs</i>	<i>\$444</i>	<i>\$541</i>	<i>\$824</i>	<i>\$529</i>
<b>Disposal</b>	Battery Disposal	\$24	\$2	\$24	\$2
	Bus Disposal	\$28	\$24	\$36	\$24
	<i>Total Disposal Costs</i>	<i>\$53</i>	<i>\$25</i>	<i>\$60</i>	<i>\$26</i>
<b>Total Cash Costs</b>		<b>\$1,328</b>	<b>\$1,255</b>	<b>\$1,916</b>	<b>\$1,256</b>
<b>Comparison to Base</b>	<i>Dollars</i>	\$73	\$0	\$660	\$0
	<i>Percent</i>	6%	-	53%	-
<b>Total Cash Cost per Mile</b>		<b>\$2.25</b>	<b>\$2.13</b>	<b>\$3.25</b>	<b>\$2.13</b>
<b>Environmental</b>	Emissions - Tailpipe	\$11	\$82	\$11	\$82
	Emissions - Refining/Utility	\$1	\$12	\$1	\$12
	Noise	\$15	\$20	\$15	\$20
	<i>Total Env. Costs</i>	<i>\$27</i>	<i>\$113</i>	<i>\$27</i>	<i>\$113</i>
<b>Total Cash and Non-Cash Costs</b>		<b>\$1,355</b>	<b>\$1,368</b>	<b>\$1,943</b>	<b>\$1,369</b>
<b>Comparison to Base</b>	<i>Dollars</i>	-\$13	\$0	\$574	\$0
	<i>Percent</i>	(1%)	-	42%	-
<b>Total Cash and Non-Cash Costs per Mile</b>		<b>\$2.29</b>	<b>\$2.32</b>	<b>\$3.29</b>	<b>\$2.32</b>