



The lower lifecycle cost for the clean diesel bus was calculated assuming existing fuel prices. However, if fuel prices continue to increase, the difference in lifecycle cost between the two vehicle types will be narrowed.

<b>Table 1 - Life Cycle Costs</b>			
<b>Initial Capital Cost and Fuel Cost Calculation</b>		<b>Clean Diesel Bus</b>	<b>Hybrid Bus</b>
A	Initial Cost of Vehicle	\$480,000	\$650,000
B	Diesel Fuel Cost Per Year	\$17,200	\$12,040
C	Life of Vehicle in Years	12	12
D	Fuel Cost for Life of Vehicle* (CxB)	\$206,400	\$144,480
E	Life-Cycle Cost of Vehicle Excluding Maintenance (A+D)	\$686,400	\$794,480
<b>Maintenance Cost Calculation</b>		<b>Clean Diesel Bus</b>	<b>Hybrid Bus</b>
F	Annual Vehicle Miles	30,000	30,000
G	Maintenance Cost per Mile	\$0.58	\$0.40
H	Annual Maintenance Cost per Vehicle (FxG)	\$17,400	\$12,000
I	Hybrid Battery Replacement	\$0	\$60,000
J	Life-Cycle Maintenance Cost per Vehicle (CxH+I)	\$208,800	\$204,000
		<b>Clean Diesel Bus</b>	<b>Hybrid Bus</b>
K	<b>Total Life Cycle Cost per Vehicle (J+E)</b>	<b>\$895,200</b>	<b>\$998,480</b>

\* Assumes existing fuel prices throughout the 12 year life span of the vehicle.

Since the lifecycle cost of a hybrid bus is only 10 percent more than a clean diesel bus and the gap in lifecycle cost is expected to be narrowed with increased fuel prices, and since the hybrid buses are significantly better than the clean diesel buses from the emissions and noise perspective, it is generally recommended that the City continue its practice of acquiring hybrid buses to replace and expand the DASH fleet when sufficient resources are available. It is important to note that the Proposed CIP does not have sufficient funding in FY 2012 – FY 2016 to support the purchase of hybrid buses while staying up-to-date on the planned replacement program for the existing DASH fleet. Without additional resources during this period, the City will have to look at refurbishing DASH buses at an estimated cost of \$155,000 in order to keep up with the replacement program.