

Whole of Life Cost – Comparison of Petrol, Plug-In Hybrid Electric Vehicles (PHEV) and a Battery Electric Vehicle (BEV)

	Petrol Vehicle	Plug-In Hybrid Electric Vehicle (PHEV)		Battery Electric Vehicle (BEV)
	Hyundai ix35	Holden Volt	Mitsubishi Outlander PHEV	Nissan Leaf
Capital Costs				
EV Purchase Cost	\$28,355	\$50,373	\$41,973	\$29,809
Charging Station	\$0	\$2,000	\$2,000	\$2,000
Total Capital Cost	\$28,355	\$52,373	\$43,973	\$31,809
Assumptions				
Mileage / Year	15,000	15,000	15,000	15,000
Average Fuel Consumption (L/100km)	9.8	1.2	1.9	0.0
Operational Costs				
Fuel Cost / Year (@ \$1.45/l)	\$2,132	\$261	\$413	\$0
Servicing Cost / Year	\$350	\$247	\$247	\$370
Electric Charging Cost / Year (15kWh/recharge x 5/week x \$0.25/kWh tariff)	\$0	\$975	\$975	\$975
Ancillary Costs / Year (tyres etc.)	\$240	\$240	\$300	\$240
Total Cost / Year	\$2,722	\$1,723	\$1,935	\$1,585
Assumptions				
Number of Years Retained	5	5	5	5
Total Running Costs over Retained Life (5 Yrs)	\$13,608	\$8,613	\$9,675	\$7,925
Total Purchase & Running Cost (5 Yrs)	\$41,962	\$60,986	\$53,648	\$39,734
Residual Value @ Trade (%)	30%	30%	30%	30%
Expected Trade Value (\$)	\$8,506	\$15,112	\$12,592	\$8,943
Cost to Council				
After Trade (5 Yr Life)	\$33,456	\$45,874	\$41,056	\$30,791
After Trade / Year	\$6,691	\$9,175	\$8,211	\$6,158
After Trade / Km	\$0.45	\$0.61	\$0.55	\$0.41