



City of Seattle's Small Sedan Fleet

Cost/Emission Comparison

				
	Gas (ICE)	Hybrid (HEV)	Plug-in Hybrid (PHEV, EREV, REEV)	100% Battery (EV, GEV, BEV)
Purchase Price	\$17,500	\$25,000	\$29,400	\$30,500
Range	440 miles	440 miles	440 miles	100 miles
Fuel Economy, MPG ¹	25	50	58	N/A
Cost to charge/100 miles	N/A	N/A	N/A	\$1.92
Fuel /KwH Cost/Mile	\$0.150	\$0.083	\$0.064	\$0.0194
Comparison Miles	440 miles	440 miles	440 miles	440 miles
Cost to Fuel 440 miles ²	\$66	\$37	\$28	\$8.45
Estimated Annual Miles	6,750	6,750	6,750	6,750
Annual Fuel Cost/6,750 miles	\$1,013	\$563	\$435	\$130
Refuel time	5 minutes	5 minutes	4 hr (Level 2 charge)	8 hr (Level 2 charge)
Emissions per 10,000 miles ³	3.87 CO ₂ tons	1.93 CO ₂ tons	1.66 CO ₂ tons	Zero
Usage	All-purpose, family car	All-purpose, family car	All-purpose, family car	Commuter Car, Local/City car
Break even vs Leaf ⁴	INA	---	INA	5.8 years

¹Based on Seattle Fleet Experience

²Assuming \$3.75/gal and 17 gal gas tank, and \$0.08/KwH cost of power and a 24 KwH battery

³Using 8.78 kg CO₂/Gal factor from the Local Government Operations Protocol

⁴Break even point assumes 6,750 miles/year. The more miles driven each year, the sooner the break-even point will be met