

Cost Per Mile Comparison of Tango with Various ICE (Internal Combustion Engine) and Hybrid Cars

Model	Tango	Honda Insight	Toyota Prius	Toyota Echo	Toyota Corolla	Toyota Camry	Subaru Outback	Ford Explorer	Yukon Suburban	Hummer H2
Maintenance cost per Mile *	\$0.033	\$0.033	\$0.018	\$0.021	\$0.021	\$0.021	\$0.029	\$0.031	\$0.037	\$0.043
MPG		63.0	48.6	41.5	37.8	29.8	25.0	17.0	12.0	14.5
Fuel Cost per Mile**	\$0.009	\$0.040	\$0.051	\$0.060	\$0.066	\$0.084	\$0.100	\$0.147	\$0.209	\$0.172
Total Cost per mile @ \$2.50/gallon	\$0.042	\$0.073	\$0.069	\$0.081	\$0.087	\$0.105	\$0.129	\$0.178	\$0.246	\$0.215
Cost per 100,000 miles @ \$2.50/gallon	\$4,200	\$7,271	\$6,947	\$8,129	\$8,718	\$10,482	\$12,900	\$17,806	\$24,582	\$21,506
Cost per 100,000 miles @ \$3.50/gallon	\$4,200	\$8,859	\$9,006	\$10,541	\$11,365	\$13,835	\$16,900	\$23,688	\$32,935	\$28,388

* Includes Battery Replacement for Tango. Maintenance Cost for Gasoline-Powered Cars is Based on Manufacturer's Recommended Service at Dealer Service

** Fuel Cost for Tango Figured at \$.05 per kWh as in the Pacific Northwest for the average commuter traveling between 20 and 24 miles between charges

**Fuel Cost for ICE scenario 1 \$2.50

**Fuel Cost for ICE scenario 2 \$3.50

Cost per Mile Calculations for Tango with 25 Optima YT Batteries; Pack Cost, \$2,500; Electricity Costs, \$.05 - \$.15 per kWh

Average Trip per charge (miles)	8	16	20	24	32	40	48	56	64	80 miles
Percent Depth of Discharge(DOD)	10%	20%	25%	30%	40%	50%	60%	70%	80%	100%
Expected Battery Life (in cycles) assuming 100 % Depth of Discharge (80 miles)	4,600	4,250	4,000	3,400	2,100	1,200	600	400	250	200
Battery Life in Miles	36,800	68,000	80,000	81,600	67,200	48,000	28,800	22,400	16,000	16,000

Battery Replacement Cost per mile Calculated as Cost of Pack / Battery Life (\$2,500 / Battery Life in Miles)	\$0.068	\$0.037	\$0.031	\$0.031	\$0.037	\$0.052	\$0.087	\$0.112	\$0.156	\$0.156
Maintenance	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002	\$0.002
Total Battery Replacement and Maintenance	\$0.070	\$0.039	\$0.033	\$0.033	\$0.039	\$0.054	\$0.089	\$0.114	\$0.158	\$0.158

Electricity Cost per Mile @ 14kWh for
80 Mile Range to Include Charging Losses

Electricity Cost per mile at \$0.05 per kwh	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009	\$0.009
Electricity Cost per mile at N. Calif Off peak***	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015	\$0.015
Electricity Cost per mile at \$0.15 per kwh	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027	\$0.027
Total Cost per mile at \$0.05 per kwh	\$0.079	\$0.048	\$0.042	\$0.042	\$0.048	\$0.063	\$0.098	\$0.123	\$0.167	\$0.167
Total Cost per mile at N. Calif off peak rate***	\$0.085	\$0.054	\$0.048	\$0.048	\$0.054	\$0.069	\$0.104	\$0.129	\$0.173	\$0.173
Total Cost per mile at \$0.15 per kwh	\$0.097	\$0.066	\$0.060	\$0.060	\$0.066	\$0.081	\$0.116	\$0.141	\$0.185	\$0.185
Total Cost per 100,000 Miles @ \$0.05 per kWh	\$7,900	\$4,800	\$4,200	\$4,200	\$4,800	\$6,300	\$9,800	\$12,300	\$16,700	\$16,700
Total Cost per 100,000 Miles @ N. Calif off peak	\$8,548	\$5,448	\$4,848	\$4,848	\$5,448	\$6,948	\$10,448	\$12,948	\$17,348	\$17,348
Total Cost per 100,000 Miles @ \$0.15 per kWh	\$9,700	\$6,600	\$6,000	\$6,000	\$6,600	\$8,100	\$11,600	\$14,100	\$18,500	\$18,500

*** PG&E off peak rate with Time of Use meter \$0.086