

EV Fleet Calculator Ownership Comparison: BEV F-150 versus ICE F-150

Assumptions: Ford F-150 | F-150 Lightning

Base Unit Cost	\$29,000	\$47,000
Miles per year	6,000	6,000
Fuel Efficiency	19	2.6
	miles per gallon	Miles per KWhr
Fuel Cost	\$3.50	\$0.12
	per Gallon	per KWhr
Annual Fuel Cost	\$1,105	\$279
Expected Life	17 years	<----- Trucks being replaced are 17 years old

Cumulative Cost of Ownership - 15 Year Analysis

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
F-150 Lightning																	
Acquisition	\$47,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maintenance*	\$0	\$0	\$0	\$0	\$0	\$424	\$437	\$450	\$464	\$478	\$492	\$507	\$522	\$537	\$554	\$570	\$587
Fuel	<u>\$279</u>	<u>\$287</u>	<u>\$296</u>	<u>\$305</u>	<u>\$314</u>	<u>\$323</u>	<u>\$333</u>	<u>\$343</u>	<u>\$353</u>	<u>\$364</u>	<u>\$375</u>	<u>\$386</u>	<u>\$398</u>	<u>\$410</u>	<u>\$422</u>	<u>\$435</u>	<u>\$448</u>
Total	\$47,279	\$287	\$296	\$305	\$314	\$748	\$770	\$793	\$817	\$841	\$867	\$893	\$919	\$947	\$975	\$1,005	\$1,035
Cumulative	\$47,279	\$47,566	\$47,862	\$48,167	\$48,481	\$49,228	\$49,998	\$50,791	\$51,608	\$52,450	\$53,317	\$54,209	\$55,129	\$56,076	\$57,051	\$58,056	\$59,091
F-150 Standard																	
Acquisition	\$29,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Maintenance*	\$100	\$100	\$100	\$100	\$100	\$703	\$724	\$745	\$768	\$791	\$814	\$839	\$864	\$890	\$917	\$944	\$972
Fuel	<u>\$1,105</u>	<u>\$1,138</u>	<u>\$1,173</u>	<u>\$1,208</u>	<u>\$1,244</u>	<u>\$1,281</u>	<u>\$1,320</u>	<u>\$1,359</u>	<u>\$1,400</u>	<u>\$1,442</u>	<u>\$1,485</u>	<u>\$1,530</u>	<u>\$1,576</u>	<u>\$1,623</u>	<u>\$1,672</u>	<u>\$1,722</u>	<u>\$1,774</u>
Total	\$30,205	\$1,238	\$1,273	\$1,308	\$1,344	\$1,984	\$2,043	\$2,105	\$2,168	\$2,233	\$2,300	\$2,369	\$2,440	\$2,513	\$2,588	\$2,666	\$2,746
Cumulative	\$30,205	\$31,444	\$32,716	\$34,024	\$35,368	\$37,352	\$39,395	\$41,500	\$43,668	\$45,900	\$48,200	\$50,569	\$53,009	\$55,522	\$58,110	\$60,776	\$63,522

* Maintenance costs based on 2021 Nickel Institute survey of long-term ownership costs showing costs of maintenance as \$0.101 per mile for ICE vs \$0.061 per mile for BEV