

## Driving Change: How Electric Vehicles Benefit Michigan

EVs can save Michiganders up to \$21,100 compared to gasoline vehicles over 10 years.

January 2024

The values below represent the savings over the first 10 years for popular EV models compared to similar gasoline vehicles.

*\$AVINGS* \$21,100



► Ford F-150 Lightning

*\$AVINGS* \$12,600



Chevy Bolt EUV

*\$2,100* 



Ford Mustang Mach-E

SAVINGS \$500



Tesla Model 3

▶ There are also used EV models that will save Michiganders money.

EVs are bringing goodpaying jobs and economic development to Michigan today \$21.9B

OF EV ECOSYSTEM INVESTMENT

19,700

ANNOUNCED NEW JOBS\*

100% OF INVESTMENTS SINCE JAN 2021 EVs provide Michiganders with more options

37

EV models available for less than the average new vehicle purchase price of \$48,000

10

EV models available for less than \$35,000





Includes battery electric and plug-in hybrid models

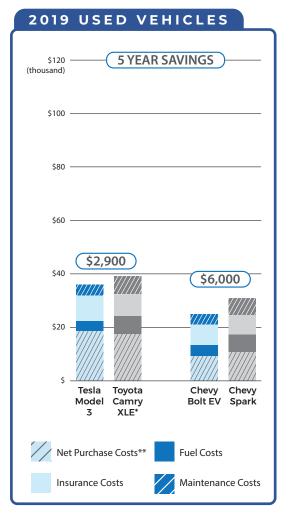






## Lifetime Cost Comparison of Electric and Gasoline Vehicles





\*Includes optional panoramic glass roof and navigation upgrade package, for equivalent features to Tesla Model 3.

\*\* The Net Purchase Cost includes the MSRP, sales tax, trade in value, IRA and state tax credits, financing costs, vehicle registrations, and a home L2 charger (for EVs).

prices-not-necessarily-rising-a3134608893/). Federal EV tax credit qualification is current as of January 9, 2024. Several manufacturers have indicated they expect additional models to qualify for half or

This analysis compares the life-time cost of buying and operating an electric vehicle to the cost of buying and operating a comparable gasoline vehicle. The analyzed costs include the vehicle purchase, financing, and registration costs, net of state and federal EV incentives (tax credits), the cost of a Level 2 home charger installation (for EVs), and the ongoing annual cost of registration fees, insurance, fuel, and scheduled maintenance over 10 years for new vehicles or over 5 years for used vehicles. The analysis assumes that all new vehicles will be financed with a 60-month new car loan, and that used vehicles will be financed with a 36-month used car loan. For new vehicles the financed amount is assumed to be the manufacturer's suggested retail price (MSRP) plus applicable state taxes, less the trade-in value of a 10-year-old vehicles the financed amount is assumed to be the Kelley Blue Book private sale value for a vehicle in good condition with 60,000 miles, plus applicable state taxes, less the trade-in value of a 10-year-old version of the gasoline vehicle. Trade-in values are from Kelley Blue Book, for 5-year old vehicles with 60,000 miles in good condition or 10-year old vehicles with 120,000 miles in good condition. MSRPs are from "Build and Price" tools on manufacturer websites and are for the mid-level trim of each model. Total estimated life-time costs for EVs are also net of all applicable federal and state EV purchase and home charger purchase tax credits. To estimate fuel and maintenance costs, assumed annual driving distance is based on responses to the 2017 National Household Travel Survey and varies by state. For EVs the analysis assumes a combination of home and public charging. Public charging costs (\$/kWh) are based on published prices for Electrify America, EVGo and Tesla charging stations. Electricity costs (for home charging) and gasoline costs are from the US Energy Information Administration Annual Energy Outlook 2023, reference case; these assumed costs also vary by state. Insuranc

all of the federal tax credit soon, including models included in this analysis. The rest of the data used for this analysis are current as of December 15, 2023.