

Standard Comparison Assumptions, AFLEETS Cost Tool

Each gas-powered vehicle comparison offered on this page is compared to two vehicles:

1. 2020 Nissan Leaf (MSRP)
2. 2020 Prius Prime PHEV (MSRP)

Incentives:

The \$7,500 federal tax credit has been applied to the Nissan Leaf, as well as a \$4,502 federal tax credit for the Prius Prime (the amount it is eligible for). Public agencies have been able to access these tax credits [in certain cases](#) when procurement offices have specified this requirement in the bid process.

All vehicles:

State: Hawaii

County: Honolulu

Annual Vehicle Miles: 10,000

Years of Planned Ownership: 15

Vehicle Year: 2020

Price: MSRP

Loan: None

Level of Analysis: Well-to-Wheels and Vehicle Production, Petroleum Use, GHGs, Air Pollutants

Maintenance and repair of gas-powered vehicles: \$0.163/mile (\$.076/mile first year)

Maintenance and repair of BEV: \$0.146/mile (\$.070/mile first year)

Maintenance and repair of PHEV: \$0.156/mile (\$.073/mile first year)

Fuel Prices:

	Public Station (\$/fuel unit)	Private Station (\$/fuel unit)
Gasoline (gallon)	\$3.22	\$3.22
Diesel (gallon)	\$4.27	\$3.50
Electricity (kWh)	\$0.32	\$0.32

Cost of EVSE not included:

Cost of EVSE purchase and installation is not included in the analysis. The TCO comparisons compare directly one vehicle to one vehicle. If we were to include charger costs, we should also include costs of petro-vehicles' fueling infrastructure in the fleet baseyards. And since public vehicles are generally going to be in the garage/baseyard at night, in many cases they can be trickle-charged overnight. Certain EVSE can be integrated into cost comparisons if a fleet requests a unique analysis from the Sustainable Transportation Coalition of Hawaii.

For additional questions on assumptions, please contact the Sustainable Transportation Coalition of Hawaii (STCH) at lauren@blueplanetfoundation.org. Date of document: August 2020.