



## Vehicle Total Cost of Ownership Comparisons

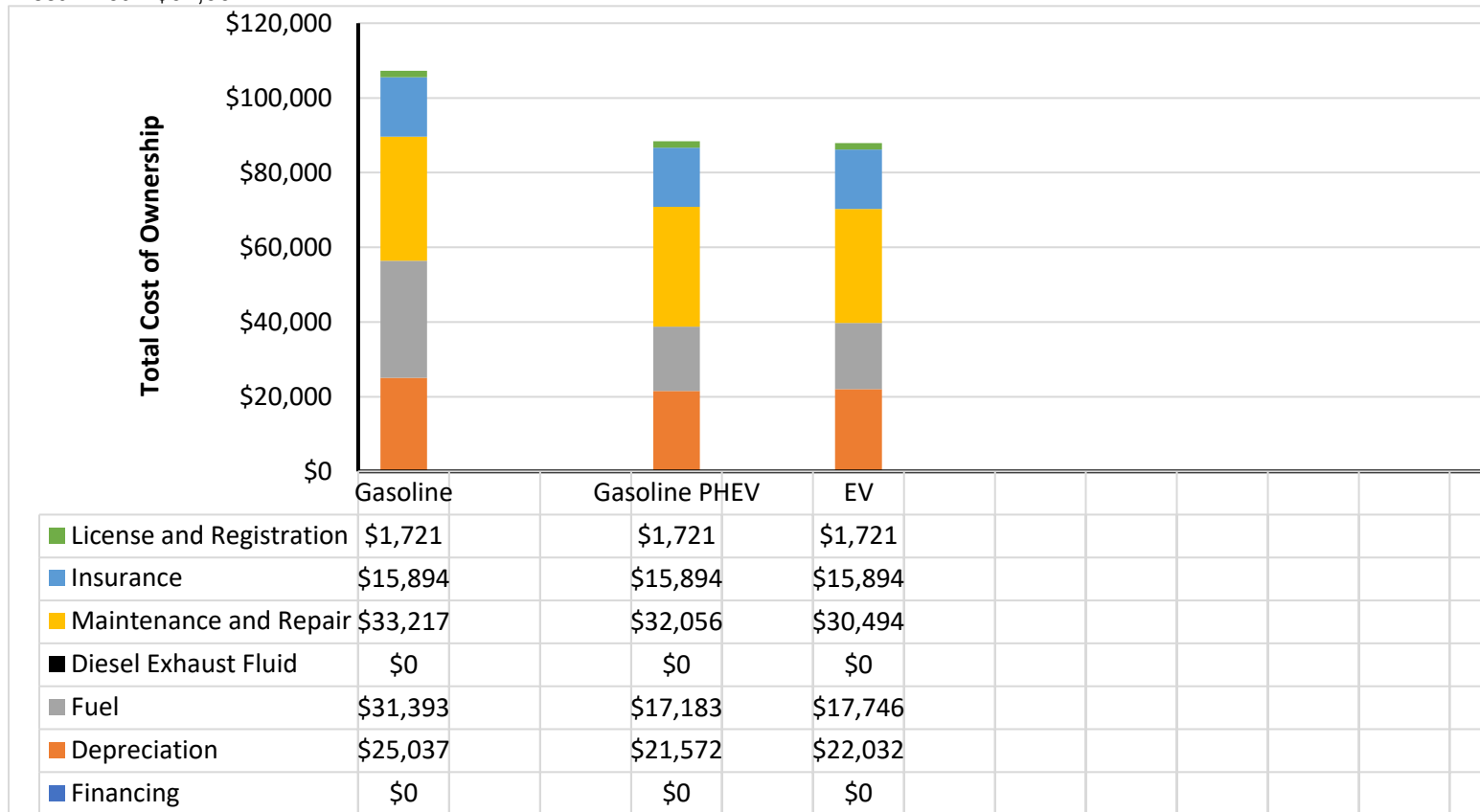
### Total Cost of Ownership- Frontier (Gasoline) v. Prius Prime (PHEV) v. Nissan Leaf (EV)

#### Results

Frontier: \$107,263

Prius Prime: \$88,426

Nissan Leaf: \$87,887





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### Assumptions

**State:** Hawaii

**County:** Honolulu

**Vehicle Type:** Passenger Car

#### Three Vehicles for Comparison:

**Light Duty Fuel Type:** Gasoline (2020 Nissan Frontier)

**Number of Vehicles:** 1

**Annual Vehicle Mileage:** 10,000

**Fuel Economy (MPGGE):** 18

**Purchase Price:** \$26,790

**Light Duty Fuel Type:** Gasoline Plug-in Hybrid Electric Vehicle (PHEV) (2020 Prius Prime PHEV)

**Number of Vehicles:** 1

**Annual Vehicle Mileage:** 10,000

**Fuel Economy (MPGGE):** 133 MPGGE, 25 all-electric miles, 1.9 GGE/100 miles, 25 kwh/100 miles

**Purchase Price:** \$27,900

**Federal Incentive:** \$4,502

**Light Duty Fuel Type:** All-Electric Vehicle (PHEV) (2020 Nissan Leaf)

**Number of Vehicles:** 1

**Annual Vehicle Mileage:** 10,000

**Fuel Economy (MPGGE):** 99.0

**Purchase Price:** \$31,600

**Federal Incentive:** \$7,500

#### 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

**Years of Planned Ownership:** 15 years

**Financial Assumptions:** No Loan



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### Assumptions (cont'd)

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

**EV Chargers:** Not built into analysis because they are shared infrastructure

**Maintenance and repair of current vehicles:** \$0.163/mile (\$.076/mile first year)

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

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