

AFLEET

~~Hot~~ Cool Line



Sustainable Transportation Coalition of Hawai'i
A U.S. DEPARTMENT OF ENERGY CLEAN CITIES COALITION

Hawaii Green Car Talk

a conversation about alternative fuels and fleets

Jun 18: 9-10a HST

Lifecycle Costs, Telematics & Procurement

Philip Saunders- City of Seattle Green Fleet Program Manager

Learn about the resources and tools that are helping public fleet managers across the country make smart, green procurement decisions.

Aug 4: 9-10a HST

Top Down Mandate, Bottom Up Sell

Kelly Reagan- Fleet Manager, City of Columbus

How have coordination, centralization, and data helped the City of Columbus tackle their transition to alternative fuels and technologies?

Sept 16: 9-10a HST

AFLEET: Calculating Total Cost of Ownership

Lauren Reichelt- Coordinator, Sustainable Transportation Coalition of Hawaii

Learn the assumptions behind Argonne National Laboratory's AFLEET tool and how it can help you compare total cost of ownership for vehicles during procurement.

Nov 5: 9-10a HST

Experiences from Hawaii

Ben Sullivan- County of Kauai

Kevin Cooney- State of Hawaii DLNR/DOFAW

EV charger installation can seem daunting at first. Learn about the process and hear tips to make installation easier from firsthand experience on Kauai. Then hear updates from DLNR Maui DOFAW on their exciting biodiesel truck pilot and learn what factors are important when considering biodiesel.

[Click to Register](#)

This webinar series is open to Hawaii's public fleet managers and staff.

For questions, contact lauren@blueplanetfoundation.org



Welcome To **AFLEET**

The Department of Energy's Technology Integration Program has enlisted the expertise of Argonne to develop a tool to examine both the environmental and economic costs and benefits of alternative fuel and advanced vehicles (AFVs). Argonne developed the **Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET)** Tool to help stakeholders estimate petroleum use, greenhouse gas (GHG) emissions, air pollutant emissions, and cost of ownership of light-duty and heavy-duty vehicles.



AFLEET Tool (xls)

The AFLEET spreadsheet provides detailed energy, emission, and cost data for light- and heavy-duty AFVs. It has the following 4 calculators depending on the users goals:

- Simple Payback
- Total Cost of Ownership
- Idle Reduction
- Fleet Footprint



AFLEET Online

AFLEET Online replicates the spreadsheet's Simple Payback Calculator with a user-friendly interface and analyzes the following metrics:

- Petroleum use
- Greenhouse gas emissions
- Air pollutant emissions
- Simple payback

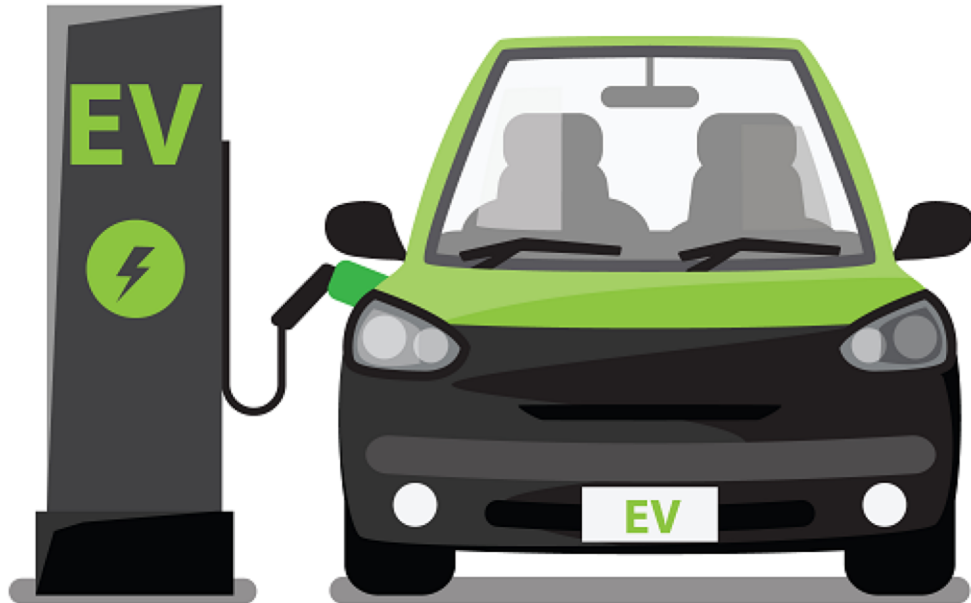


HDVEC

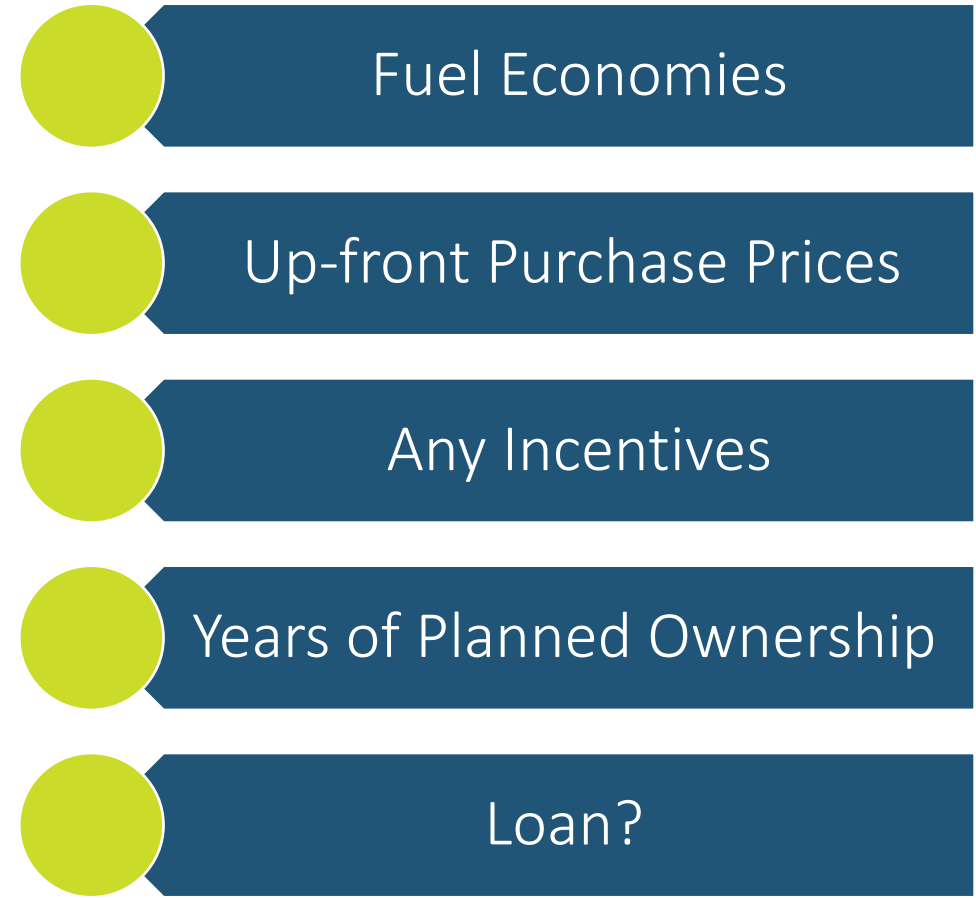
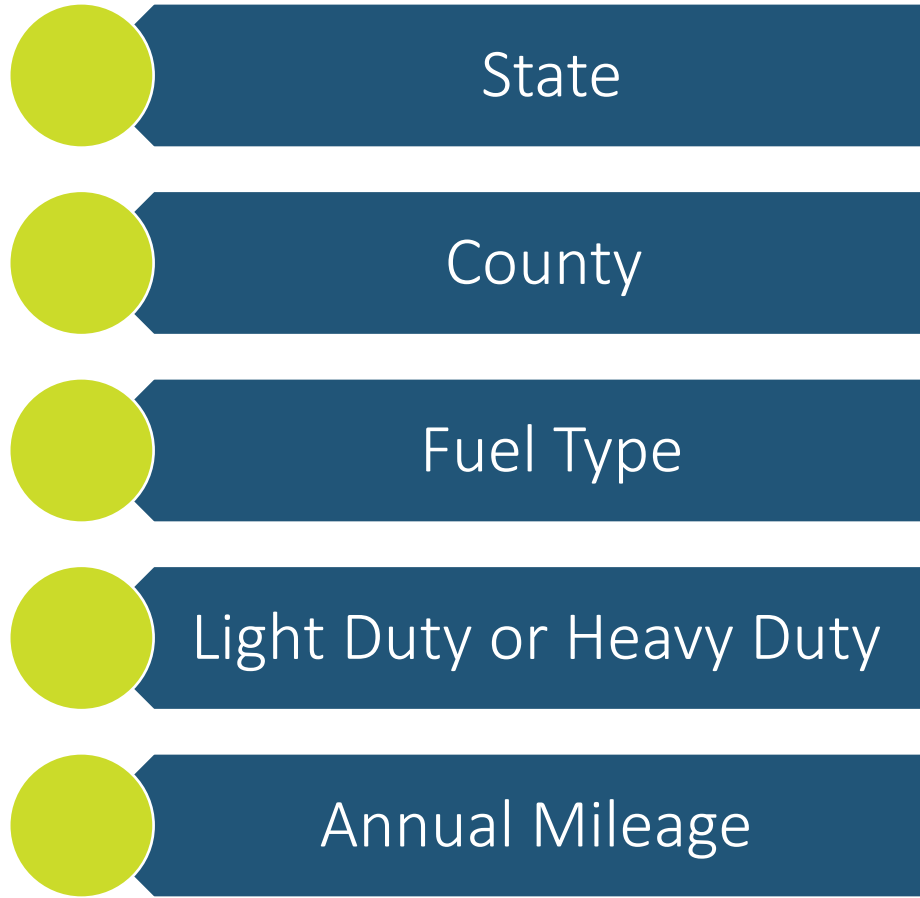
The Heavy Duty Vehicle Emissions Calculator (HDVEC) is an AFLEET-based online tool that compares NOx, PM, GHGs and funding cost-effectiveness of environmental mitigation projects for the following fuel types:

- Diesel
- Electric
- Natural Gas
- Propane

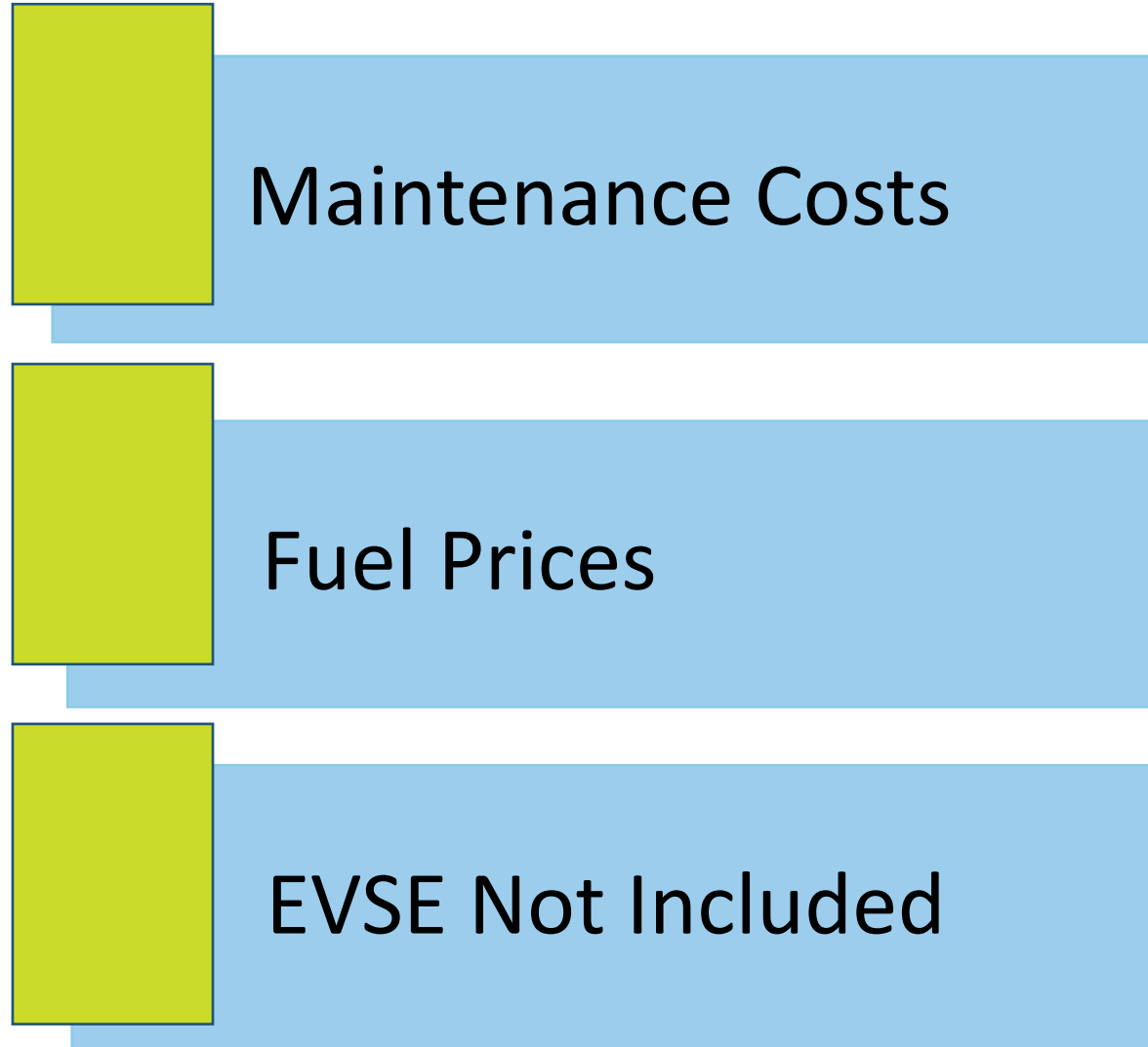
Fuels Available for Comparison



Inputs



Flexible Assumptions



Built-in Assumptions

Depreciation

Insurance

License and
Registration

Mix of gas
versus electric
usage for PHEVs



2020 Chevrolet Malibu

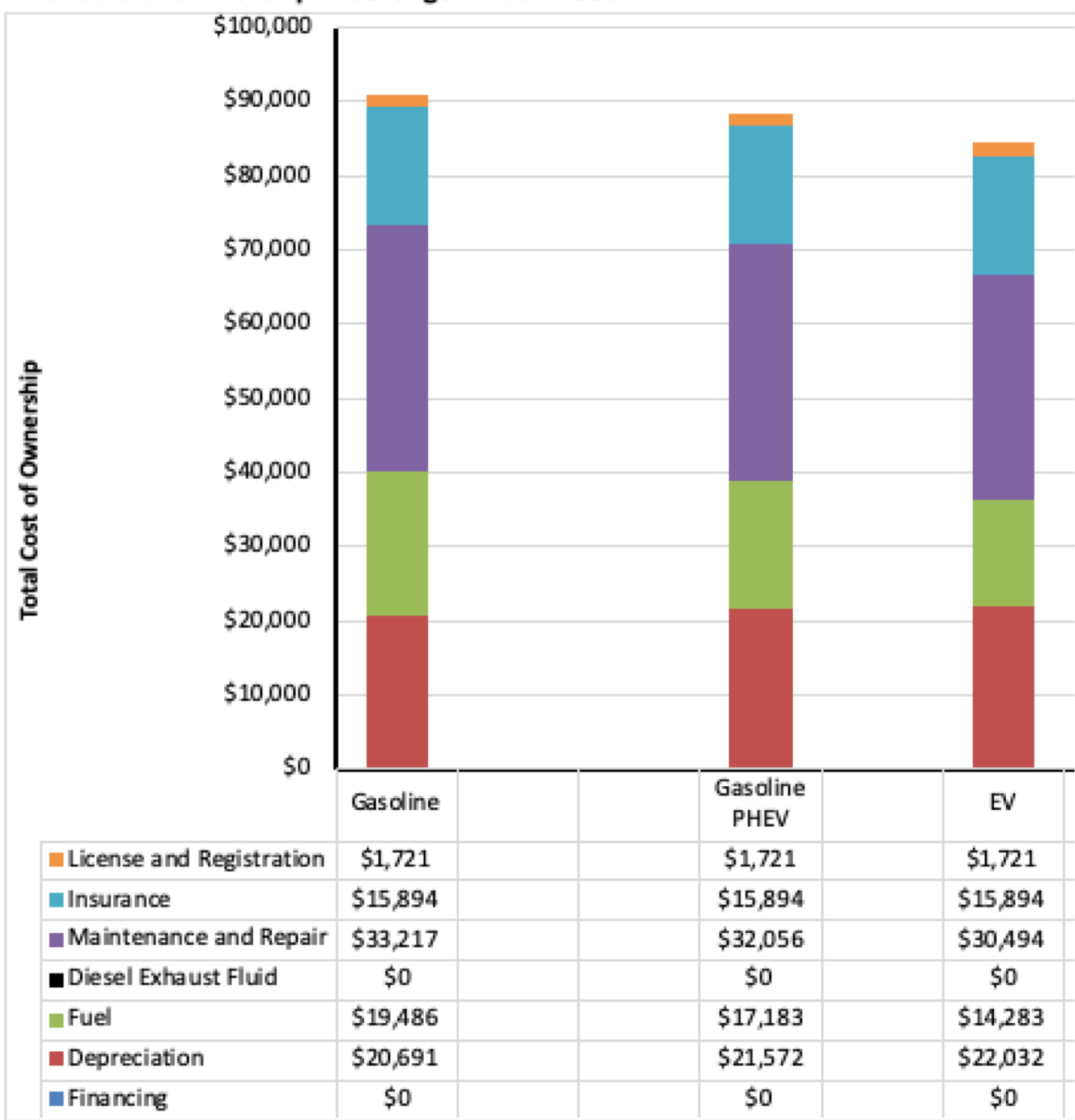


2020 Prius Prime



2020 Nissan Leaf

Total Cost of Ownership - Passenger Truck Fleet



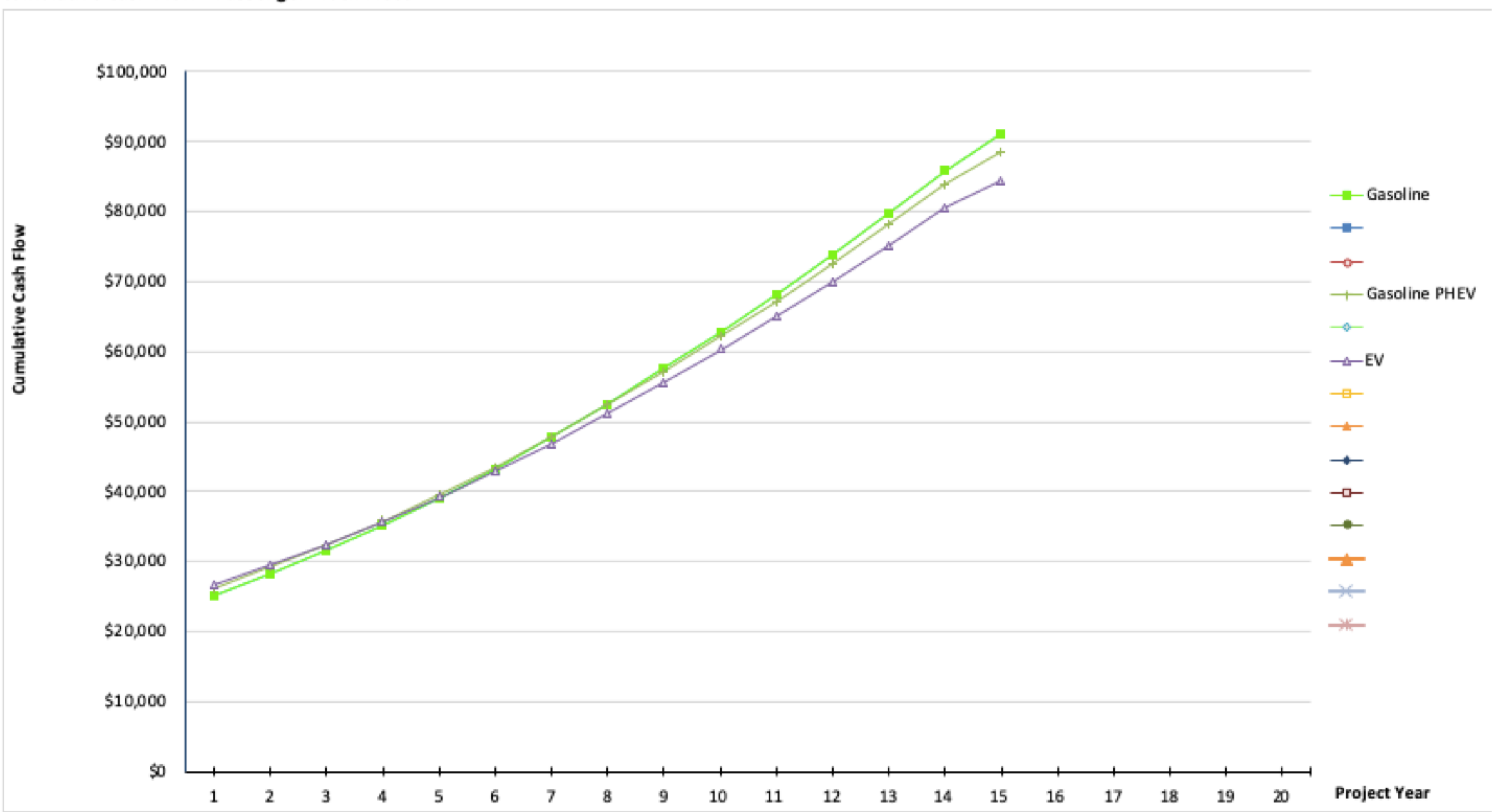
Total Lifecycle Costs

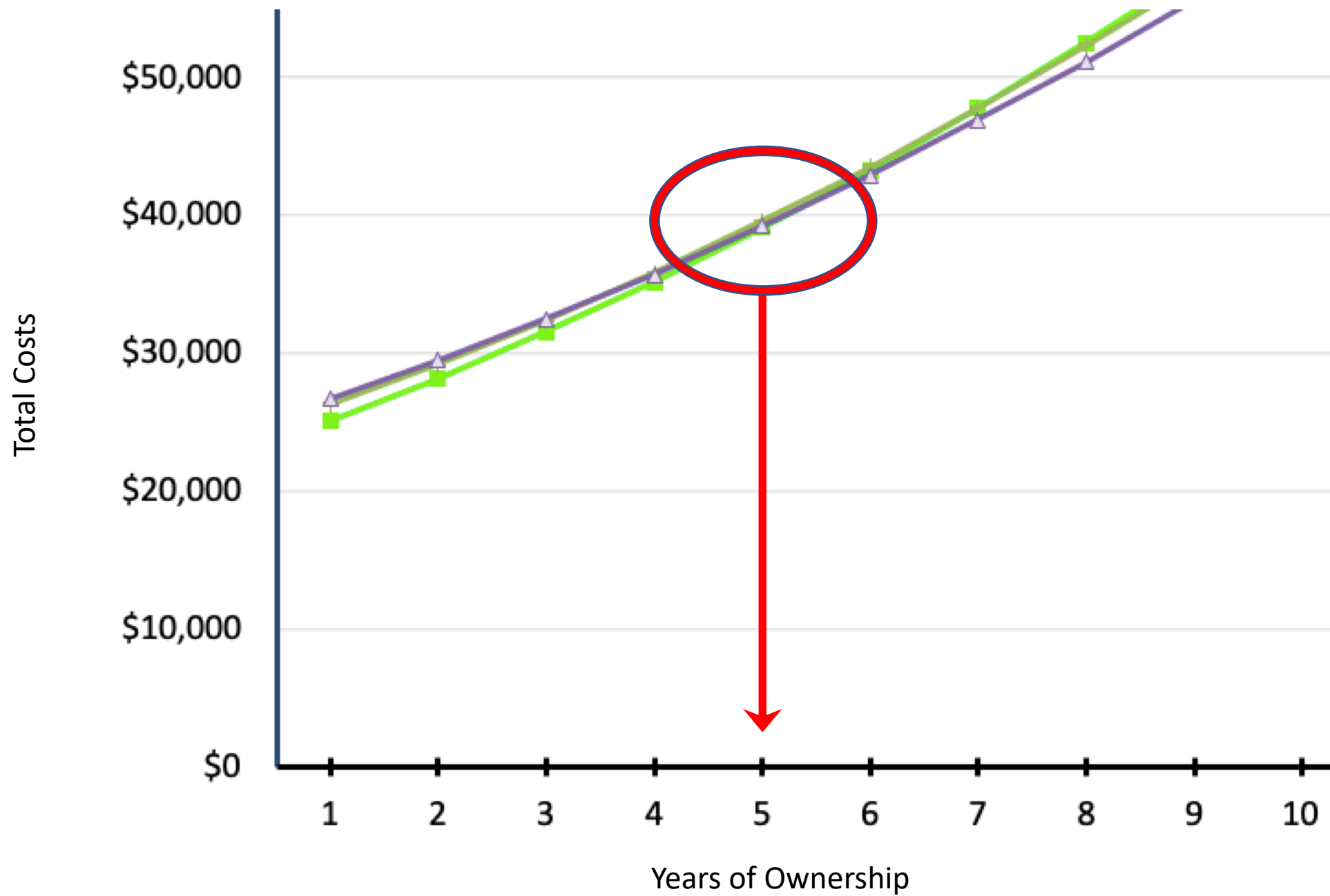
\$91,009 -Chevrolet Malibu (ICE)

\$88,426 -Prius Prime (PHEV)

\$84,424 -Nissan Leaf (EV)

Cumulative Cash Flow - Passenger Truck Fleet







State of Hawaii
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FLEET TOOLS

<http://climate.hawaii.gov/fleet-tools/>

Trying to make smart vehicle purchase decisions? The Sustainable Transportation Coalition of Hawaii (**STCH**) uses Argonne National Laboratory's **AFLEET tool** to create a total cost of ownership comparison for gas- or diesel-powered vehicles, electric vehicles (EV), and plug-in hybrid (PHEV) model.