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.

This webinar series is open to Hawaii’s public fleet managers and staff.
For questions, contact lauren@blueplanetfoundation.org

Click to Register
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

Biodiesel
Better. Cleaner. Now!

EV

H₂O

Gasoline
Flexible Assumptions

- Maintenance Costs
- Fuel Prices
- EVSE Not Included
Built-in Assumptions

- Depreciation
- Insurance
- License and Registration
- Mix of gas versus electric usage for PHEVs
Chevrolet Malibu (ICE) $91,009

Prius Prime (PHEV) $88,426

Nissan Leaf (EV) $84,424
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.