Energy Systems and Infrastructure Analysis

This is Argonne National Laboratory's R&D version of GREET.
For GREET versions used for determining tax credits, please click here.
A brief introduction to R&D GREET can be found here.

Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) Tool

AFLEET Tool

Download tool and documentation

- AFLEET Tool - Online at https://afleet.es.anl.gov/afleet
- AFLEET Tool 2023 - Spreadsheet (9.77 MB xlsx)
- User Guide for AFLEET Tool 2023 (994 KB pdf)

AFLEET Tool 2023

August 9, 2023

We are pleased to announce a new release of the AFLEET Tool. This release includes the following updates:

- Added EV Utility Rate Calculator to estimate utility costs for charging electric vehicles
- Added EV Charger TCO Calculator to estimate the total cost of ownership of an EV charger
- Updated vehicle emission factors from EPA's MOVES3
- Updated results to match R&D GREET 1 2022 and R&D GREET 2 2022
- Updated fuel prices from Clean Cities Alternative Fuel Price Reports

For more information on AFLEET 2023 updates, please use the following link: AFLEET Tool Version History.pdf

Heavy-Duty Vehicle Emissions Calculator (HDVEC)

January 31, 2018

HDVEC is an online calculator based on the AFLEET Tool to aid fleets and decision makers compare vehicle technologies for NOx, PM, and GHG emission reductions and consider allocation of funding for environmental mitigation projects. HDVEC can be found at https://afleet.es.anl.gov/hdv-emissions-calculator.

What is AFLEET Tool?

October 28, 2013

The Department of Energy's Clean Cities 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. Argonne has developed the **A**lternative **F**uel **L**ife-**C**ycle **E**nvironmental and **E**conomic **T**ransportation (AFLEET) Tool for Clean Cities stakeholders to estimate petroleum use, greenhouse gas emissions, air pollutant emissions, and cost of ownership of light-duty and heavy-duty vehicles using simple spreadsheet inputs.

The tool uses data from Argonne's R&D **G**reenhouse gases, **R**egulated **E**missions, and **E**nergy use in **T**echnologies (GREET) fuel-cycle model to generate necessary well-to-wheels petroleum use and GHG emission co-efficients for key fuel production pathways and vehicle types. In addition, Environmental Protection Agency's **MO**tor **V**ehicle **E**mission Simulator (MOVES) and certification data are used to estimate tailpipe air pollutant emissions. Various sources are used to provide default cost data, including the Clean Cities Alternative Fuel Price Report and American Recovery and Reinvestment Act awards.

Previous Versions

- AFLEET Tool 2020 (7.06 MB xlsx)
- User Guide for AFLEET Tool 2020 (826 KB pdf)

- AFLEET Tool 2019 (6.39 MB xlsx)
- User Guide for AFLEET Tool 2019 (1.41 MB pdf)

- AFLEET Tool 2018 (5519 kB xlsx)
- User Guide for AFLEET Tool 2018 (1.21 MB pdf)

- AFLEET Tool 2017 (5552 kB xlsx)
- User Guide for AFLEET Tool 2017 (1186 kB pdf)

- AFLEET Tool 2016 rev1 (3859 kB xlsx)
- User Guide for AFLEET Tool 2016 (692 kB pdf)

- AFLEET Tool 2013 (2.9 MB xls)
- User Guide for AFLEET Tool 2013 (609 kB pdf)

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