



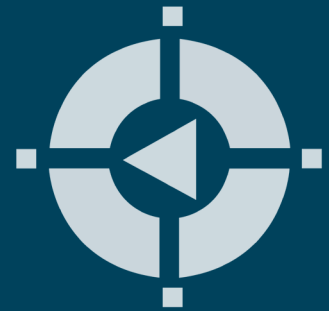
## FLEET EVALUATION FOR EFFICIENCY AND TECHNOLOGY STRATEGIES

### NWT can provide fleets critical efficiency and technology information with:

- Strategies to increase fuel economy using the existing vehicle fleet
- Alternative fuel options, including ethanol, natural gas, propane, electricity, biodiesel, and hydrogen
- Potential greenhouse gas and criteria emission reductions along with lifetime cost savings
- Implementation plan to phase-in advanced technology equipment and identify incentives that could reduce the initial investment

### NWT fleet assessment services include:

- Evaluating existing fleet characteristics to accurately identify and categorize vehicles based on operational characteristics.
- Determining alternative fuel and vehicle technology availability by defining the matrix of fuels and vehicle types for any on-highway or off-road applications.
- Estimating costs of advanced vehicle technologies in fleet operations relative to conventional options over the next ten years for alternative fuels, refueling equipment, vehicle capital, and operating costs.
- Assessing the feasibility of alternative fuel infrastructure, including both private and public refueling options.
- Identifying vehicle technology advantages and disadvantages by estimating the environmental performance of clean vehicle options in relation to conventional fuels and vehicles.
- Developing an implementation plan for a cost-effective transition to a clean vehicle fleet with concise recommendations for vehicle purchases and refueling infrastructure.
- Identifying funding sources, preparing grant applications, and developing internal/external reports or documentation to obtain support for procuring vehicles or equipment, including text, graphical presentation, and document formatting.



**New West Technologies, LLC** (NWT) is a technical consulting firm with over 30 years of focused experience in the transportation and energy sectors.

- Alternative Fuel and Advanced Vehicle Technology Performance Validation
- Fleet Evaluation for Efficiency and Technology Strategies
- Technology Road Mapping and Market Assessments
- Legislative and Regulatory Analysis
- Project Management and Public Funding Support

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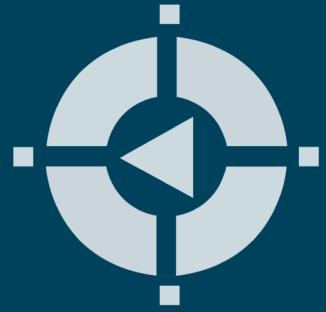
**New West Technologies, LLC**

Engineering | Technical Services | Management Consulting

**Advanced Vehicle Technology Fleet Assessments** are a specialty of NWT and exemplify our primary business focus on technical consulting services for environmental and energy programs in the areas of advanced transportation technologies, alternative fuels, and state-of-the-art power technologies. NWT staff's wealth of knowledge comes from supporting a variety of Federal and State level vehicle programs over the last two decades.

The NWT team also has direct experience with advanced transportation technologies through demonstration projects which include alternative fuels, hydraulic regenerative braking, hybrid electric propulsion, electrified trailer refrigeration units, and idle reduction. Examples of NWT Fleet Assessment efforts include:

- **Technology Evaluation of a Federal Government Fleet**— identified opportunities to increase alternative fuel vehicle usage across the agency's fleet based on the available fueling infrastructure and suitable vehicle options. These options included alternative fuel, hybrid, and "right-sized" vehicle replacements. Technology impacts on petroleum reduction were calculated as well as future compliance with Federal fleet technology and fuel requirements.
- **Alternative Fuels Master Plan for Major Airport**— mitigated the anticipated increased petroleum use associated with an airport expansion. NWT determined the potential for using alternative fuels in airside and landside operations based on life cycle and cost benefit analyses.
- **Alternative Fuel Vehicle Deployment Plan for a Parcel Delivery Fleet**— involved technical and economic analyses to provide strategic guidance on natural gas vehicle procurement and fleet locations in five southwestern states. The Plan was also designed to foster and promote the use of alternative fuels and to demonstrate the technical and economic viability of alternative fuel vehicles.
- **Electric Vehicle and Recharging Infrastructure Study for a Government-Agency**— examined potential electric vehicle fleet options for reducing petroleum fuel use and lowering emissions. Charging infrastructure was outlined for the various electric vehicle options. Other alternative fuel options were also evaluated.
- **Alternative Fuel Study for A County Fleet**— assessed the impacts, benefits, and costs on operations for using alternative fuels in this transit and county vehicle fleet. As part of this effort, NWT developed a database of the operating characteristics for the 3,000 county-owned vehicles, to perform a direct evaluation of alternative fuel and hybrid vehicle options. The result of the work was a five-year fleet strategy for alternative fuel implementation.
- **Analysis of Sustainable Vehicle Options for a University Fleet**— determined the fleet makeup as well as the estimated annual fuel use and emissions by vehicle type. Emissions savings, fuel use savings, and incremental annual operating cost differences were calculated for sustainable options such as alternative fuels and hybrid-electrics to determine which powertrain option was most beneficial for the university.



For more information on NWT's advanced vehicle technology capabilities and experience for fleets contact:

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