



ADVANCED TRANSPORTATION TECHNOLOGY ANALYSIS AND ASSESSMENT SERVICES

NWT services for supporting advanced vehicle technologies include:

- › Technology feasibility assessments
- › New technology market analysis
- › Demonstration, validation, and performance evaluations
- › Fleet technology assessments
- › Public funding support for product development, demonstration, and deployment

New vehicle technology-related services include:

Technology Feasibility Assessments cover transportation and stationary power concepts. NWT analyzes new technologies for technical feasibility, potential performance improvements in fuel consumption and emission reduction value, and economic viability.

Example technologies evaluated by the NWT team include:

- › Alternative fuel vehicles
 - Compressed Natural Gas
 - Liquified Natural Gas
 - Propane
 - Ethanol
 - Biodiesel
 - Electric
 - Hydrogen
- › Hydraulic-hybrid and hybrid-electric vehicle propulsion systems
- › Fuel cell vehicle propulsion systems
- › Truck stop electrification (TSE)
- › Electric trailer refrigeration units (eTRU)
- › Fuel-fired heaters
- › Auxiliary power units
- › Intelligent transportation system concepts
- › Electric propulsions for marine vessels
- › Hydrostatic fan drive systems
- › Advanced aerodynamics



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

New Technology Market Analysis goes beyond a feasibility assessment to determine the market potential, competition, opportunities, and available financial incentives for a specific technology. The NWT team has conducted full market analyses for a variety of emerging technologies including alternative fuels, hybrid vehicle propulsion systems, truck stop electrification (TSE), and electric trailer refrigeration units (eTRU).

Demonstration, Validation, and Performance Evaluations of advanced technology can be performed on a wide range of innovations and vehicle applications, including pre-commercial and commercial products. Field demonstrations evaluate the emissions, fuel consumption, and performance benefits, and quantify the cost-effectiveness of the new technology in comparison to current technologies. Technology evaluations generally involve controlled testing (e.g., chassis dynamometer for vehicles) in combination with in-use or track demonstrations to collect and analyze operational, maintenance, and emissions data.

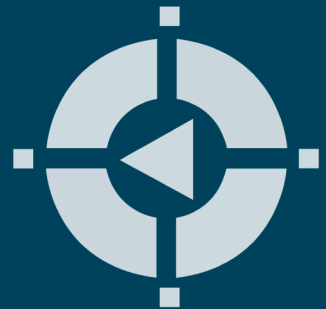
Fleet Assessments are conducted to assist in deciding on technology directions to meet organizational goals and requirements and develop actionable, cost-effective implementation plans. Fleet studies typically involve a comprehensive baseline fleet analysis and characterization, an evaluation of current and forecasted technology availability, infrastructure requirements, a determination of operational and performance benefits, disbenefits, costs, and a downselection to optimize technology implementation based on cost-effectiveness, cost-benefit lifecycle and other fleet-specific criteria. Based on this thorough analysis, an implementation strategy is developed in concert with the prescribed fleet retirement schedule, budget constraints and internal/external mandates.

Public Funding Support is a service strength that arises from NWT's long history of locating funding opportunities and developing successful funding proposals. NWT can help clients identify public funding opportunities to assist with the research, development, demonstration, and deployment of new technologies in all sectors.

NWT provides a broad range of support, from development and funding for a single pre-commercial concept/product to multiple technologies serving diverse markets and applications. NWT also works with Federal agencies, state agencies, county governments, local governments, and private clients to locate appropriate funding programs that support the deployment of energy-efficient and low-emission commercial products for vehicle fleet applications.

NWT can also provide expert proposal development and guidance, including building a strong proposal team and project structure that will be highly rated by the funding agency. NWT can take the lead role in proposal development, or a supporting role, depending on the client's experience and available resources. When in the lead role, NWT manages the entire proposal development process, which includes:

- ▶ Thorough review of the solicitation to identify all proposal requirements,
- ▶ Development of a detailed timeline to allow for the appropriate review and approvals,
- ▶ Development of proposal sections with appropriate project tasks and milestones, and
- ▶ Review of the final proposal product for completeness and adherence to the solicitation requirements.



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