



Fleet Assessments to save fuel and reduce air pollution

The NCSC Clean Transportation team at NC State University can conduct a fleet assessment for your organization. This will examine the consumption of fuel and the impact on the environment by your vehicles and their use. A plan outlining ways you can potentially lower or diversify fuel use and reduce air pollution will be developed. The assessment includes a member of our group visiting your fleet to conduct a detailed analysis and providing an overview of the different alternative fuels and advance transportation technology options. The following procedures outline the components of a fleet assessment.

Pre-assessment analysis

1. Identify the vehicles in your current fleet
2. Analyze the purpose of those vehicles
3. Chart the use of the vehicles (i.e. look at miles driven)
4. Record fuel usage
5. Determine what environmental goals are you trying to achieve
 - for example: if you are in a non-attainment area you may want to reduce NOx
6. Review vehicle replacement and purchasing policy
 - predicting how many vehicles will be replaced or added on



Meeting at your site

1. Include all relevant individuals associated with the fleet
2. Share our knowledge of alternative fuels and advanced transportation technologies with a brief presentation
3. Tour your fleet and check maintenance procedures
4. Discuss assessment goals and priorities (reduce fuel use, diversity, environmental concerns)
5. Develop a timeline

Successful transportation assessments involve the;

Fleet manager
Maintenance manager
Purchasing director
Facility planner
Administrative leader
Vehicle users

Evaluation Results

1. Determine current environmental impact from your transportation vehicles
2. Suggest options to reduce your fleet-based emissions
3. Provide contact information for specific products or services
4. Inform you of existing incentives and grants

Following the assessment and delivery of a evaluation report our staff would be available to answer further questions as your organization implements alternative fuel or advance transportation technology strategies.

You can expect some of the recommendations to include:

- Conservation strategies to reduce miles driven and improve mpg
- Choosing more efficient conventional vehicles
- Biofuels; biodiesel and ethanol
- Low-carbon fuels; propane, natural gas, and hydrogen
- Battery powered electric vehicles and hybrids
- Diesel retrofits that significantly reduce emissions

