

# COMPARING ALTERNATIVE FUELS FOR POLLUTANTS AND GREENHOUSE GASES

A variety of tests have been done by automotive engineers in various agencies and manufacturing companies to compare the emissions of alternative fuels and vehicles with those of gasoline or diesel and conventionally powered vehicles. You can find their results in the fact sheets in this unit and in the publications and web sites of the organizations listed in the Resource Guide. Sources of particular interest are the Department of Energy, the Union of Concerned Scientists, and organizations promoting alternative fuels. Use these resources to help you locate emissions information about your fuel. If possible, locate test results done in the past year or two on dedicated vehicles.

Find out if emissions from your AFV will increase or decrease in comparison with a gasoline- or diesel-powered vehicle. Because the results of emissions tests may vary, list the source of your information. Then describe how this change in emissions would affect health and environmental issues.

*Motor or engine type:* \_\_\_\_\_

*Fuel or other source of power:* \_\_\_\_\_

<b><i>EMISSION TYPE</i></b>	<b><i>HIGHER OR LOWER EMISSIONS: SOURCE OF INFORMATION</i></b>	<b><i>HEALTH OR ENVIRONMENTAL ISSUE AFFECTED</i></b>	<b><i>POSITIVE OR NEGATIVE IMPACT</i></b>
Carbon dioxide			
Carbon monoxide			
Nitrogen oxides			
Particulates			
Sulfur dioxide			
Ozone-forming compounds			
Air toxins			