

Use the questions below as a guide to developing your presentation. Many of the answers are found in the alternative fuel fact sheets. For some, you'll need to do further research on the Internet or by contacting organizations that promote alternative fuels. For others, you'll need to draw your own conclusions based on facts you've found. Be prepared to explain how you came to your conclusions.

To help you analyze your fuel, use the student handout *COMPARING ALTERNATIVE FUELS FOR POLLUTANTS AND GREENHOUSE GASES*. This chart can be used to help deliver information to your audience.

While answering the questions below and preparing your presentation, keep in mind the issues to the right (which your class discussed at the beginning of this unit) and the various people interested in them.

TRANSPORTATION AND FUEL ISSUES

- Decrease in greenhouse-gas emissions
- Reduced air pollution
- Improved health of children and the elderly
- Low impact on the environment
- Ease in taking care of accidents
- Safe disposal of fluids and parts

1. POLLUTANTS AND GREENHOUSE GASES

- a. How would cars running on your fuel affect levels of pollution or greenhouse gases? (Use the table on the following page to help you analyze the impact of emissions from your fuel.)
- b. While battery electric vehicles themselves are very clean, their widespread use may increase levels of some pollutants emitted from power plants. The types and levels of pollutants depend on the sources of energy and types of technology used in your region's power plant. If you are researching electric vehicles, analyze the impact of increased power use at your region's power plant. How do emissions increase at the power plant compare with decreases at the tailpipe?

2. IMPACT ON HEALTH AND OTHER ENVIRONMENTAL PROBLEMS

- a. If cars using this fuel became popular and replaced gasoline-run cars, what do you think would be the impact on the environment in your community or in communities downwind from yours?
- b. Would health and environmental problems increase or decrease?
- c. Would the impact be positive or negative? (Add this information to your table.)

3. TAKING CARE OF ACCIDENTS

- a. What safety precautions would be needed to protect the community from fuel leaks?
- b. Are there any special considerations in case of traffic accidents?
- c. Who needs to be trained in order to keep the drivers and the community safe?

4. DISPOSAL OF FLUIDS AND PARTS

- a. Do cars using your fuel have any special disposal issues (for example, fuel cells, batteries, or special lubricants)?
- b. How do you think your community would address these issues?

