HYDROGEN SURVEY 2008 STUDENTS

Using Computer Assisted Telephone Interview (CATI), the household will be contacted. The following protocol will be used.

Intervi	ewer.		
Hello, househ		I'm calling from on behalf of the U.S. Department of Energy. Your nold has been randomly selected for an important national research survey about nergy sources. I want to assure you we are not selling any products or services.	
	Ask to speak with an adult, 18 years of age or older, who lives in this household.		
	couple study.	our telephone number has been selected at random to be included in the study. I have a uple of questions to determine who in your household should be interviewed for this ady. All of your responses will be confidential. How many [INSERT FROM BELOW] the in this household?	
	A.	None	
	B.	One	
	C.	Two or more	
	D.	Refused	
	1.	Adults 18 to 45 years old	
	2.	Adults over 45 years old	
	3.	Children under 6 years old	
	4.	Children 6 to 11 years old	
	5.	Children 12 to 17 years old	
	For this interview, the person 12-17 years old has been selected. None of the answers we be associated with your household in any way.		
	May I please speak to the 12-17 year old who had the most recent birthday?		
	When teen comes to phone:		
	Hello, I'm from We're conducting a research survey on behalf of the U.S. Department of Energy about your knowledge and opinions about hydrogen and fuel cell technologies. Your responses are voluntary; however, every response is extremely important. It will take about 14 minutes to complete the survey.		

The results of this survey will be used to help design the hydrogen education program for the U.S. Department of Energy. Your responses are confidential and will not be associated with you or your household in any way.

Before we get started, I want to mention that there are both technical and opinion questions in the survey. Tell me what you think or believe, but keep in mind that "no opinion" or "don't know" are perfectly acceptable responses.

Interviewers will also have the following information to provide to the respondent:

- OMB Control Number
- Hydrogen website URL

Also note that, if asked at any point during the survey, the interviewer should tell the respondent that there are no trick questions.

Opening Question

- Q1. Please rate your familiarity with hydrogen and fuel cell technologies:
 - A. Not at all familiar

(You know nothing about hydrogen and fuel cell technologies)

B. Slightly familiar

(You've heard about hydrogen and fuel cell technologies, read an article or watched a television feature about the technology, or participated in casual conversation about the technology)

C. Familiar

(You've had limited experience with hydrogen and fuel cell technologies; researched the subject for school, work, or personal interest; or learned about the technology in a class or workshop)

D. Very familiar

(You consider yourself an expert in hydrogen and fuel cell technologies)

Technical Knowledge Questions

- T1-4 I am going to read several statements. After each one, please tell me if you believe the statement is true, if it is false, or if you don't know
 - A. True
 - B. False
 - C. Don't know/No opinion
 - T1. Hydrogen gas is toxic
 - T2. Fuel cells produce electricity through hydrogen combustion
 - T3. Hydrogen is lighter than air
 - T4. Hydrogen has a distinct odor
- T5. Fuel cells can provide power to which of the following?
 - A. Your home
 - B. Your car
 - C. Your laptop computer
 - D. None of these
 - E. Or. all of these
 - F. Don't know/No opinion
- T6. In which state or condition can hydrogen be stored?
 - A. Chemical compound
 - B. Liquid
 - C. Both of these
 - D. Or, neither of these
 - E. Don't know/No opinion
- T7. When using pure hydrogen, fuel cell vehicles generate electricity, water, and what else?
 - A. Carbon dioxide
 - B. Nitrous oxides

- C. Heat
- D. Or, all of these
- E. Don't know/No opinion
- T8. Hydrogen can be produced using which of the following sources of energy?
 - A. Natural gas
 - B. Sunlight
 - C. Organic matter
 - D. Or, all of these
 - E. Don't know/No opinion

Opinion Questions

- O1. How would you feel if your local gas station also sold hydrogen?
 - A. Frightened
 - B. Uneasy
 - C. At ease
 - D. Or, pleased
 - E. Don't know/No opinion
- O2. How would you feel if your school's electricity and heat were provided by a fuel cell located on school grounds?
 - A. Frightened
 - B. Uneasy
 - C. At ease
 - D. Or, pleased
 - E. Don't know/No opinion
- O3. Please tell me if you believe the following statement is true, if it is false, or if you don't know.
 - A. True
 - B. False
 - C. Don't know/No opinion
 - O6. Hydrogen is too dangerous for everyday use by the general public.
- O4-6. Next, I am going to read several statements about potential benefits of using hydrogen as a VEHICLE FUEL. For each, tell me if you disagree, are neutral, agree, or if you have no opinion?
 - A. Disagree
 - B. Are neutral
 - C. Agree
 - D. No opinion
 - O4. Using hydrogen will reduce U.S. dependence on foreign oil
 - O5. Using hydrogen will reduce emissions and improve air quality
 - O6. Hydrogen is as safe to use in my car as gasoline and diesel fuels

- O7-12. For the following applications, please rate the safety of using hydrogen and fuel cells, in comparison with technology in use today. Is it not as safe, equally as safe, or safer to use hydrogen and fuel cells for ...
 - A. Not as safe
 - B. Equally as safe
 - C. Safer
 - D. No opinion
 - O7. Personal cars and trucks
 - O8. Buses and commercial vehicles
 - O9. Large power plants
 - O10. Laptop computers or cell phones
 - O11. Power for your home
 - O12. Power for buildings such as hospitals, banks, and schools
- O13-18. I am going to read several characteristics of new vehicles. Please imagine that you are shopping for an automobile, and rank each of the following characteristics for its importance to you. Would you say it is not important, you are neutral, it is important, or you don't have an opinion?
 - A. Not important
 - B. Neutral
 - C. Important
 - D. No opinion
 - O13. Cost of vehicle at the point of sale
 - O14. Gas mileage
 - O15. Power and speed
 - O16. Reliability
 - O17. Safety
 - O18. Impact on the environment emissions produced

Information Sources

- I1-7. Have you . . .
 - A. Yes
 - B. No
 - C. Don't know
 - I1. Received instruction on or otherwise learned about energy use, fuels, and emissions
 - I2. Received instruction on or otherwise learned about hydrogen and fuel cells
 - I3. Ever used a demonstration kit to produce hydrogen
 - I4. Ever used a model fuel cell science kit
 - I5. Ever seen or used a hydrogen fuel cell model car
 - I6. Participated in a fuel cell vehicle design competition
 - I7. Participated in a science competition that involved knowledge of hydrogen or fuel cells in some way

FOR ALL QUESTIONS 11-17 FOR WHICH THE RESPONSE IS "YES," ASK THE

FOLLOWING. (Note: if asked, indicate that "at school" includes home-schooled activities for students who receive all their education via home schooling)

- I8-14. Did the learning or activity take place at school?
 - A. Yes
 - B. No
 - C. Don't know
 - I8. Received instruction on or otherwise learned about energy use, fuels, and emissions
 - 19. Received instruction on or otherwise learned about hydrogen and fuel cells
 - II0. Ever used a demonstration kit to produce hydrogen
 - I11. Ever used a model fuel cell science kit
 - I12. Ever seen or used a hydrogen fuel cell model car
 - I13. Participated in a fuel cell vehicle design competition
 - I14. Participated in a science competition that involved knowledge of hydrogen or fuel cells in some way

FOR ALL QUESTIONS I8-I14 FOR WHICH THE RESPONSE IS "NO," ASK THE FOLLOWING.

- I15-21. If not at school, where did the learning take place?
 - A. With my family [at home (not home-school), at a museum]
 - B. In a youth group activity [after school program or club, scouts, camp]
 - C. On my own [via the Internet, television, newspapers, books]
 - D. Other [specify]
 - E. Don't know
 - I15. Received instruction on or otherwise learned about energy use, fuels, and emissions
 - 116. Received instruction on or otherwise learned about hydrogen and fuel cells
 - I17. Ever used a demonstration kit to produce hydrogen
 - I18. Ever used a model fuel cell science kit
 - I19. Ever seen or used a hydrogen fuel cell model car
 - I20. Participated in a fuel cell vehicle design competition
 - I21. Participated in a science competition that involved knowledge of hydrogen or fuel cells in some way
- I22-27. Finally, how often do you get energy information from different types of mass media? Would you say that you never, sometimes, or frequently get energy information from...
 - A. Never
 - B. Sometimes
 - C. Frequently
 - D. Don't know
 - I22. Television

- I23. Radio
- I24. The Internet
- I25. Newspapers and general interest magazines
- I26. Science and technology magazines and journals
- I27. Business or trade magazines