## 2022-2023 Energy Education Workshop Pre/Post Assessment

Your answers in this assessment are used to shape NEED curriculum and training. Please answer to the best of your ability. Completely fill in the circle next to your selected answer.

Location: Date: _		te:
A	Pre	
В	Post	Answer Selection: Correct = $lacktriangle$ Incorrect = $lacktriangle$ $lacktriangle$
Is	this your first NEED workshop?	
A	Yes	6. What is the national average cost of a residential kWh of electricity?
(B)	No	
1. Which sector of the economy consumes the most energy?		<ul> <li>B 12 – 14 cents</li> <li>C 15 – 17 cents</li> </ul>
A	transportation	© 18 – 20 cents
B (C) (D)	industry residential/commercial electric power	7. When considering <b>total energy</b> consumption (including transportation, industry, and electricity), which of the <b>renewable</b> energy sources provides the U.S. with the greatest amount of energy?
2. Most of the energy consumed in the U.S. is		biomass
_	ed in which form of energy?	B hydropower
A	kinetic	© wind
В	thermal	© solar
©	chemical	
<ul><li>mechanical</li><li>3. In which form do all energy flows begin?</li><li>electrical</li></ul>		8. When considering total energy consumption (including transportation, industry, and electricity), which of the <u>nonrenewable</u> energy sources provides us with the greatest amount of energy?
В	chemical	A petroleum
©	radiant	▣ natural gas
<b>D</b>	nuclear	© coal
	Which of the following is not a primary source	<ul><li>nuclear</li><li>of</li></ul>
_	rgy?	9. Nonrenewable sources of energy make up wha
A	petroleum	percentage of U.S. energy consumption?
В	natural gas	A less than 60%
©	electricity	® 60 – 70%
<b>(D)</b>	all of the above	© 70 – 80%
	Which energy source is used to generate the est percentage of electricity in the U.S.?	© 80 – 90%
A	hydropower	10. What are the top five sources of energy used in the United States?
В	petroleum	
©	coal	uranium, wind, natural gas, hydropower, biomass      petroleum, natural gas, coal uranium, biomass

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natural gas

B petroleum, natural gas, coal, uranium, biomass

© coal, petroleum, uranium, hydropower, solar © solar, coal, petroleum, geothermal, natural gas

11. What do coal, natural gas, nuclear, and some solar power plants have in common?			
A	all utilize cooling towers		
B	all burn a fuel to drive the turbine generator		
©	all emit CO <sub>2</sub>		
(D)	all use thermal energy to drive the turbine		
	generator		
12. Which country provides the largest portion of imported oil to the U.S.?			
A	Egypt		
В	Saudi Arabia		
©	Venezuela		
D	Canada		
13. Which <b>renewable</b> energy source generates the largest percentage of <b>electricity</b> in the U.S.?			
A	wind		
В	solar		
©	hydropower		
D	biomass		
14. Wh gas?	nich of the following is <b>not</b> a greenhouse		
A	H <sub>2</sub> O (water vapor)		
В	CO <sub>2</sub> (carbon dioxide)		
©	CH <sub>4</sub> (methane)		
D	N <sub>2</sub> (nitrogen)		
15. When considering most thermal power plants, how efficient is the system, or, roughly how much energy will reach the consumer as electricity?			
A	one-third (1/3)		
В	one-fourth (1/4)		
©	one-half (1/2)		
D	three-fourths (3/4)		
16. <i>Opinion</i> : I will take energy into consideration when I make my daily decisions.			
A	always		
	most of the time		
B ©	some of the time		
D	never		