

# Station #1 | INTERPRETING INFOGRAPHS

1. Identify and explain each of the energy sources (5) illustrated in the infographic.

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2. What do the white and black circles imply in terms of energy production and use?

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3. Identify the countries that are using each of the energy sources (5). What do they all have in common?

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4. In at least 4 sentences, explain how access to technology may have an impact to what energy sources are used?  
THINK- industrialized vs. non-industrialized nations.

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## Station #2: INTERPRETING GRAPHS

1. Briefly describe what is happening in the larger graph above.

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2. Which renewable energy source is most widely used?

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3. Sort the power sources above in the larger graph into the categories below:

HYDROPOWER	BIOMASS	SOLAR	GEOHERMAL	WIND

4. Look closely at the smaller circle graph titled *Total vs Renewable*. Describe what the graph is demonstrating and describe the role that nonrenewable power has on our world energy sources in at least 4 sentences.

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## Station 3- INTERPRETING DIAGRAMS

Look carefully at the diagrams below and answer the questions.

1. Briefly summarize the diagrams above.

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2. Look carefully at the diagram labeled HYDROPOWER. The light areas are where the existing hydro-plants are located. Describe what the environment needs to look like for the hydro plants to exist there?

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3. Look carefully at the WIND POWER TURBINE diagram. Predict what areas could have the most access to wind and write it down. IF dark areas are areas where the wind is the greatest, are they the same as what you predicted? Explain.

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4. Describe where you would put geothermal power plants.

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5. Which renewable energy source would be best to use and why?

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## Station # 4: Wind Energy

1. Describe what the turbine of wind energy looks like. Describe how they work.

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2. Where are the strongest winds in the United States? Why do you think they are there?

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3. Why has wind become an attractive source of energy? What percentage does it supply to the United States now?

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4. What are some of the negative impacts of Wind energy?

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# Station #5: HYDROELECTRIC POWER

1. Describe how hydroelectric power works.

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2. Does hydroelectric power need a large dam? Explain.

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3. What limits where a hydroelectric dam is located?

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4. Describe some (at least 2) of the pros and cons related to hydroelectric power.

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## Station #6: SOLAR TECHNOLOGY

1. Describe how solar technologies work.

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2. What are some uses of the solar technology?

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3. What are the pros and cons of this industry?

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4. Why do you think that an energy source so easily available is not more steadily used? Explain.

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# Station #7: fossil fuels

1. Describe the three main outputs of fossil fuels.

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2. Some scientists claim that fossil fuels are technically renewable. Why?

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3. Identify at least 2 pros (positives) and 2 cons (negatives) for each type of fossil fuel:

OIL		COAL		NATURAL GAS	
PRO	CON	PRO	CON	PRO	CON

4. Do you think "our consumption of fossil fuels has nearly doubled every 20 years since 1900"? Explain.

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