

Electricity Generation Choices

Unit 3: Energy Production and Transmission



Types of Generation

- _____

Example(s): _____

- _____

Example(s): _____

- _____

Example(s): _____

Every _____ megawatts of lignite-based electric generation requires about _____ jobs.

Magnetism:

The same amount of electricity used to light up one incandescent bulb will light up how many LED bulbs?

What are the primary sources of energy for generation of electricity?

_____	_____
_____	_____
_____	_____

How electricity is made:



A source of energy _____ on a _____ which
_____.

The most common method of generating electricity is using _____ turbines with
_____ supplied from a _____ boiler.

Other information related to making electricity using a steam turbine:

- Most lignite-fired stations _____ the lignite into a fine powder.
- They use _____ to carry the pulverized lignite to the burners in the _____.
- The heat from _____ generates _____ which is used to drive a steam turbine which turns the _____.
- Lignite is delivered to the power plant by _____.
- When lignite burns in the furnace, the temperature is _____.
- The steam in many boilers is around _____.
- North Dakota lignite is about _____ water.
- North Dakota lignite's heating value is about _____.

Types of Generation

- _____
- _____
- _____
- _____

What influences fuel choices?

Nuclear Advantages/Disadvantages

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Hydro Advantages/Disadvantages

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Natural Gas Advantages/Disadvantages

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Wind Advantages/Disadvantages

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Solar Advantages/Disadvantages

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Lignite Advantages/Disadvantages

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