Slide A

Warm Up



Write in your notebook...

- What do you think magnets have to do with electricity?
- How do you think we could figure this out?

Sit in your assigned seat!

→ Be ready to share with the class.

To Do

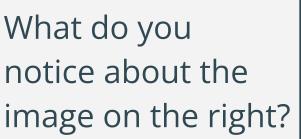
- Take out your energy source matrix
- Choose your #1 overall
 - Write the name big!
 - 3 reasons why
- Choose your #8 overall
 - Write the name big!!
 - 3 reasons why

Warm Up 9/26

- Take out your observations from magnet interactions from yesterday.
- What properties did you observe about magnets? Name two.

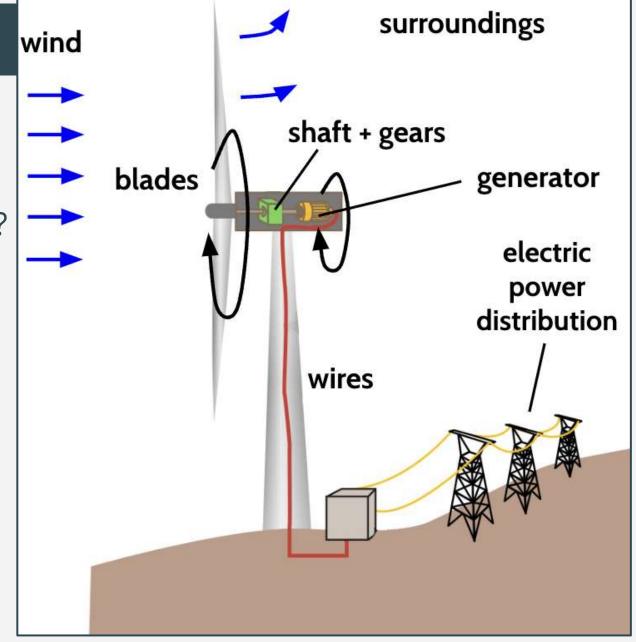
9/25 Goals

- Complete magnet interactions
- Hand crank generator models
- Start Lab?

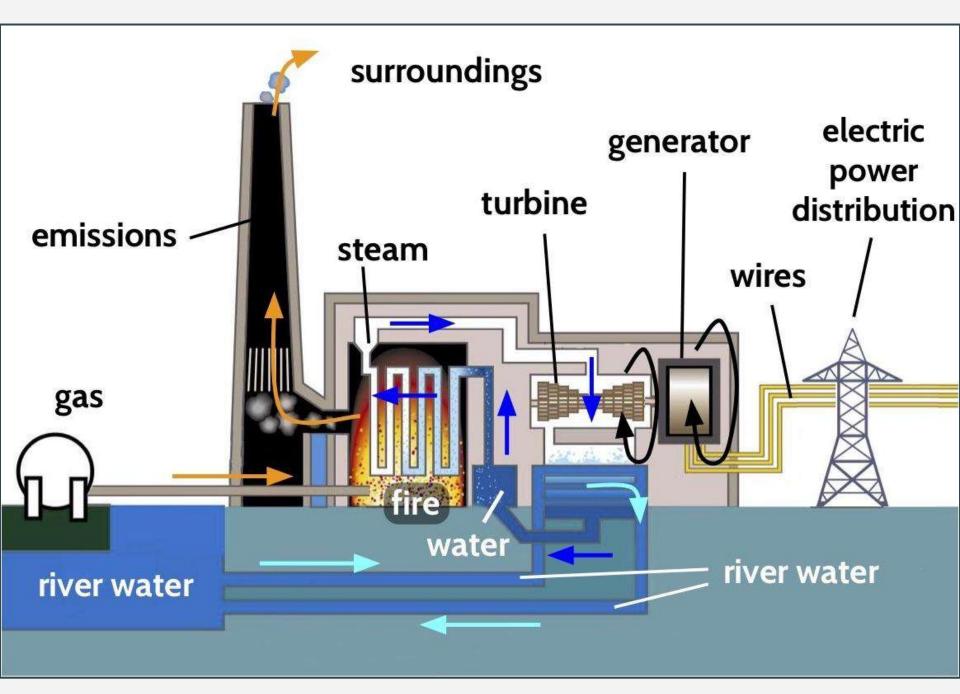


Warm Up

How does the hand crack generator look similar to the wind turbine?



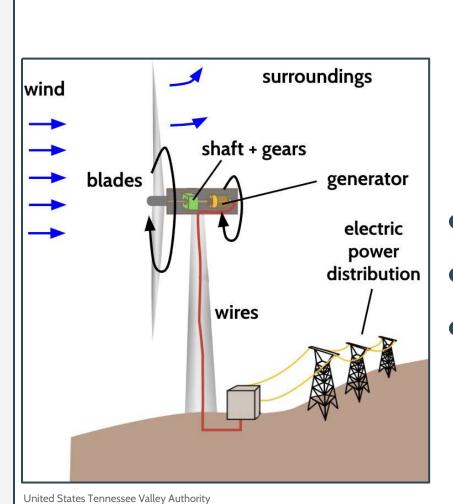




Procedures

- Specific, detailed steps
- Reference your diagram (label the diagram as well)
- Units (if relevant)
- Do not include "Gather Materials" or "Do Calculations"
- Read it back to yourself... could someone else repeat it?

The Wind Turbine Power Plant

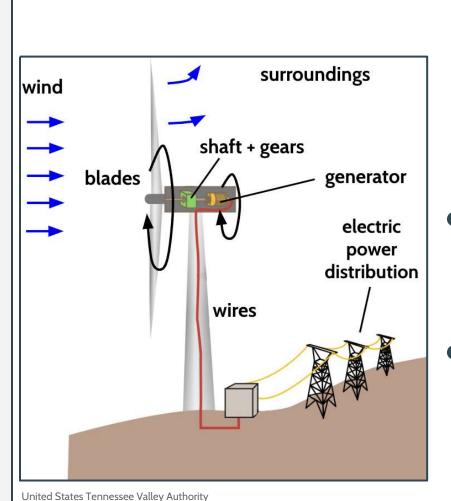


Left Contraction of the second second

With your class

- What do you notice?
- What do you wonder?
- How could tracing matter changes in this system help us understand energy transfer?

Tracking Matter Changes

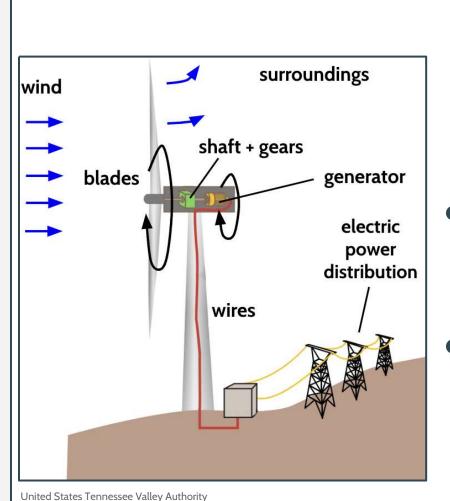


Left S

With your class

- How does matter move and change in the wind turbine system?
- What components and interactions represented in the diagram show this?

Modeling Energy Transfer



With your class

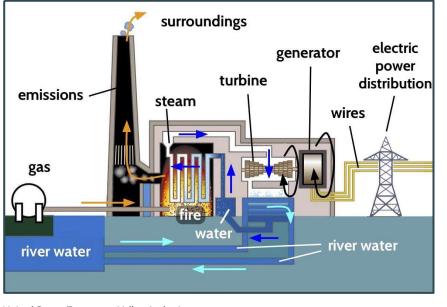
- How does energy transfer between components in the wind turbine system?
- How do we know this from the diagram?

 \rightarrow Model this as a class.

The Natural Gas Power Plant

With a partner

Use the diagram to track how **matter moves** (or changes) and infer how **energy transfers** in the natural gas power plant.



- Make an energy transfer diagram to illustrate your thinking.
- How are the matter moves/changes you identified related to energy transfer?

United States Tennessee Valley Authority

Energy Transfer in Power Plants

Turn and talk

- 1. What do these power plants have in common?
- 2. What questions do we still have about how these power plants produce electrical energy?

 \rightarrow Be ready to share with the class.

Wire Coil Lab

- Take out your wire coil lab from yesterday.
- Read over your procedure- does it make sense?