

Virtual Power Plant Tour

Observe the animations and images of the various power plants. **Create a graphic organizer** summarizing some of the similarities and differences among the different types of power plants. For each example, ask:

What parts do they have in common?

What energy transformations are happening?

What is turning the turbine?

Is the resource renewable or non-renewable?

Coal Power Plant: <http://www.srpnet.com/education/tour/default.aspx#start>

Open page, click on “*Start the Tour*”, then “*View the Entire Tour from Start to Finish*”

Click speaker

Click to Load

Click speaker

Identify parts of the power plant and what they do. Note sound effects as you pass the cursor over the different parts of the image.

Hydroelectric Project: <http://fwee.org/nw-hydro-tours/walk-through-a-hydroelectric-project/>

Nuclear Power Plant: <http://www.nrc.gov/reading-rm/basic-ref/students/reactors.html>

Click on View animated image of the Pressurized Water Reactor. ***Does water in the reactor mix with water in the boiler?***

Click on Return to Students Nuclear Reactors page

Click on View animated image of Boiling Water Reactor. ***Does water in this reactor mix with water in the boiler?***

Wind Power Generator: <http://www.alternative-energy-news.info/technology/wind-power/wind-turbines/>

Read about *Wind Turbines*. Take notes.

Geothermal Power Plant: http://www.midamericanrenewablesllc.com/tour_geothermal.aspx

How are these power-generating systems alike and how are they different? Create a graphic organizer to summarize your ideas.