

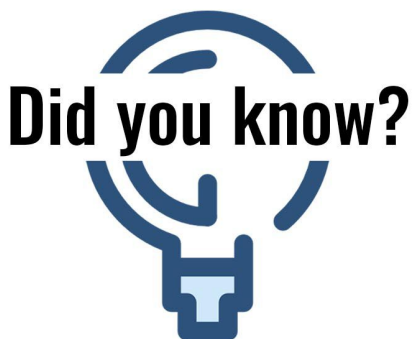
# Grades 1-4

## What is **Electricity**?



Aii educates to encourage future leaders and innovators. This lesson will encourage kids to think about how electricity works in their home.

<b>Time:</b>	10 minutes
<b>Materials:</b>	Computer, Note pad
<b>Action:</b>	Read and learn!



## Did you know?

- Electricity travels at the speed of light
- The U.S. surpassed 2 million solar system installations
- Your TV uses electricity even when it's turned off

SOURCE: ENERGYSAGE

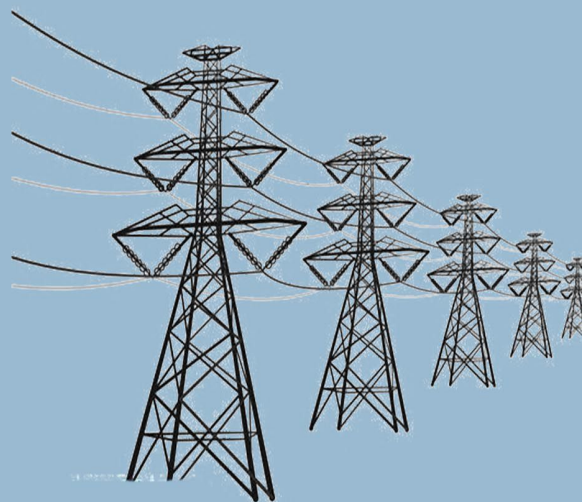
# Grades 1-4

## There are three sources of energy to produce electricity:

There are **fossil fuels**, which includes natural gas, oil, and coal. There is **nuclear energy**. There is also **renewable energy** which includes hydropower, solar power, winds, and trees.

How do these methods translate into real-life examples?

- **Fossil fuels** are the world's primary energy source. Power plants burn coal or oil to create heat, which is then turned into steam, which drives turbines that generate electricity.
- **Nuclear power** comes from splitting atoms. Nuclear power plants heat water to produce steam, which drive turbines that generate electricity.
- **Renewable energy** is derived from natural processes that are replenished constantly. For example, solar power is generated by the sun, which never runs out.



Look up one of these three methods. In 3-5 sentences, write about how it works in more detail. Include a geographical location where one exists!