

Science V11/S5: Iron

Renewable resources are materials that can be easily replaced. Examples of renewable energy include solar energy, wind, and hydropower. Iron is not considered a renewable resource because the creation of iron ore takes place over thousands of years, meaning it cannot be replenished quickly. There is a limited amount of iron in the Earth's layers. Renewable resources, such as sunlight, are considered to be unlimited.



SOLAR PV







WIND



HYDRO

Iron is fairly easy to create. It comes from iron ore, the raw form of iron. Iron ore is mined by digging deep into the Earth. Iron is created by heating the material in a fire. Iron can be made into different shapes when it is heated up. Once the iron cools, it becomes harder and stronger. Humans have used iron to make bigger, better, and stronger tools. This has led to major advances in technology.

Tools	Transportation	Technology	Infrastructure
			

Today, iron is found in almost every electronic device we use. This could be concerning given that iron is a nonrenewable resource. Some sources say that at this rate, iron could be gone by 2060. This would drastically change daily life, as most of our electronics contain iron. Other sources suggest there is so much iron in the Earth that we could never run out. Even though iron ore takes thousands of years to form, there is so much already on Earth that we wouldn't be able to use it all.