

# Electricity Sources

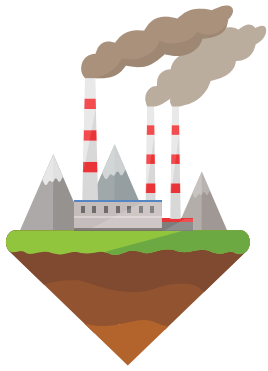
## Discussion Questions:



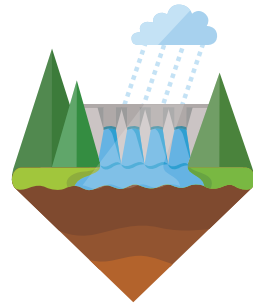
- 1) What is electricity?
- 2) How is electricity generated?
- 3) What is renewable energy?
- 4) What is clean energy?
- 5) Which methods of generating power are best for the environment?

Can you think of ways electricity is used in your community?

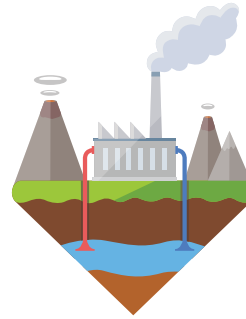




Coal



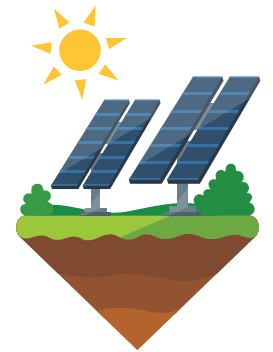
Hydroelectric



Geothermal



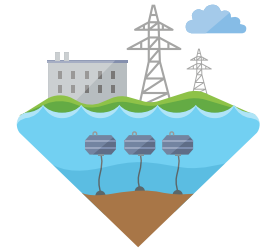
Wind



Solar



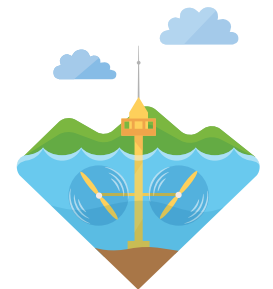
Nuclear



Wave



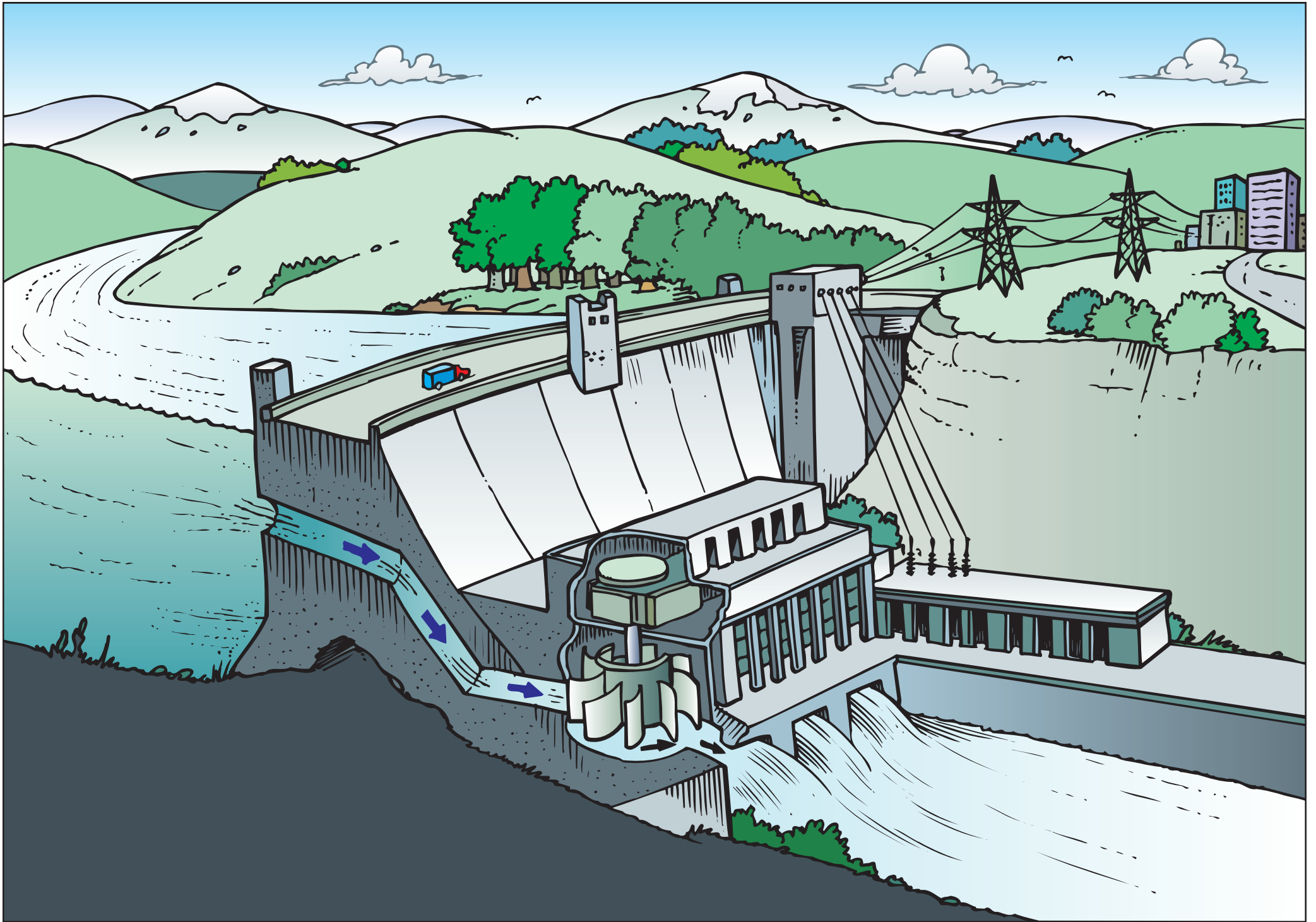
Biomass



Tidal

# How is electricity generated?

Hydroelectric Power: Water-driven turbines generate hydroelectricity.



Nuclear Power: Nuclear fission generates the heat for steam-driven turbines.



Grohnde, a nuclear power plant in Germany.

Coal Power: Coal is burned to provide heat for steam-driven turbines.



Wind Turbine Power: Electricity is generated in wind-driven turbines.



Solar Power: Energy of the sun, stored in solar cells, is used to generate electricity.

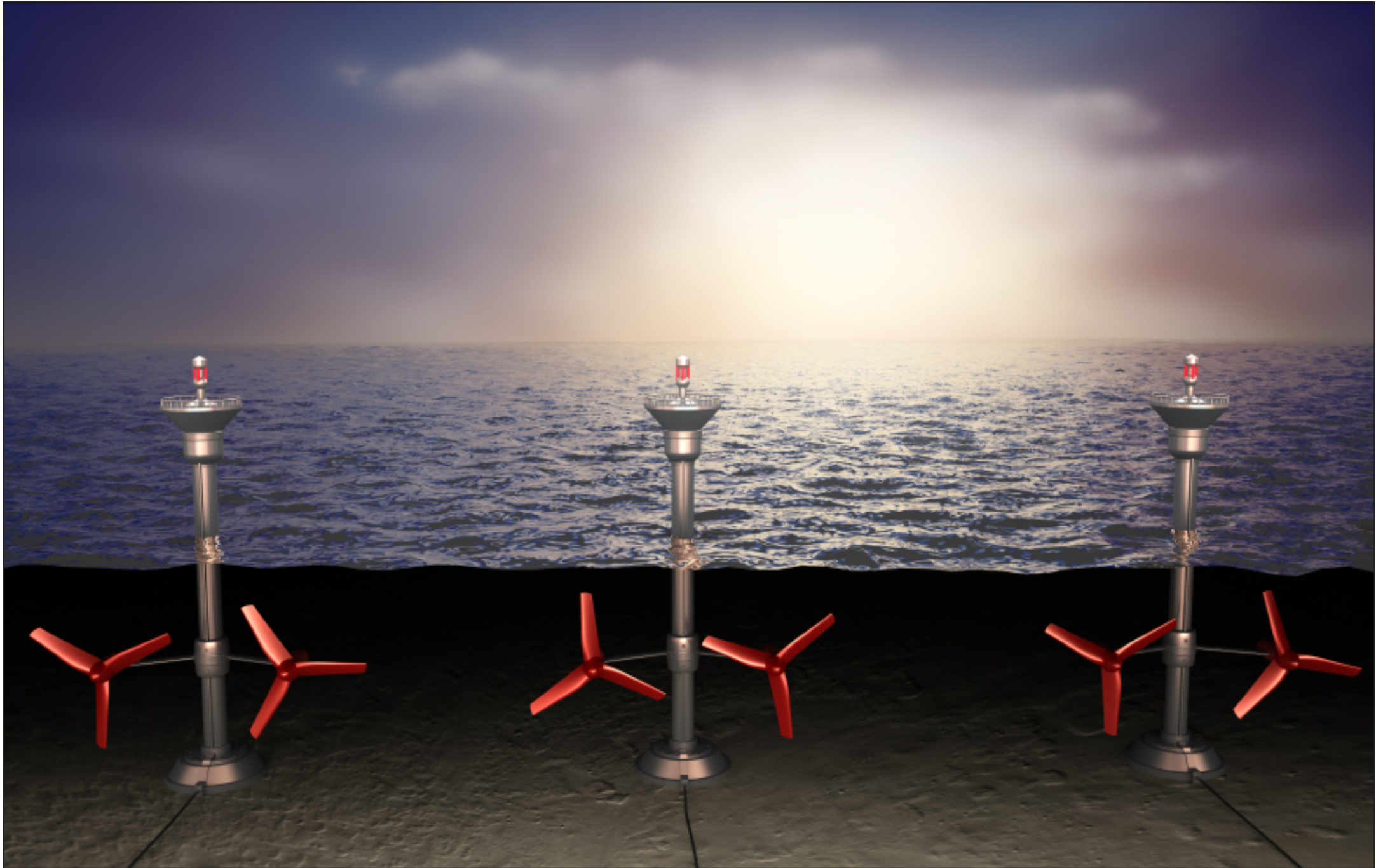




Geothermal Power: Turbines are fueled by heat that comes from under the ground.



Tidal Power: Underwater turbines generate power using the movement of tidal water.



# Non-Renewable Energy



Oil, gas and coal are non-renewable sources of fuel.

They are found underground. They are the remains of ancient forests compressed between layers of rock over millions of years.

Once they are used up they are gone forever. They cannot be renewed.

# Clean Energy

Why are some forms of energy considered better than others in terms of the environment?

Which methods of generating electricity are considered 'clean'?

Which methods of generating electricity add pollution to the environment?

