

Learning Activity

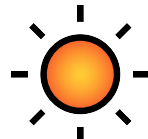
Name: _____

Group: _____

Date: _____

Geography Secondary 1 and 2

Which Energy Source Would You Choose?



Student Booklet (Supplement)
– *The City of Cendrillon* –

Read the scenario and fill in the table in your student booklet below. You will need to identify the characteristics, advantages, and disadvantages of each energy source.

Scenario – The City of Cendrillon

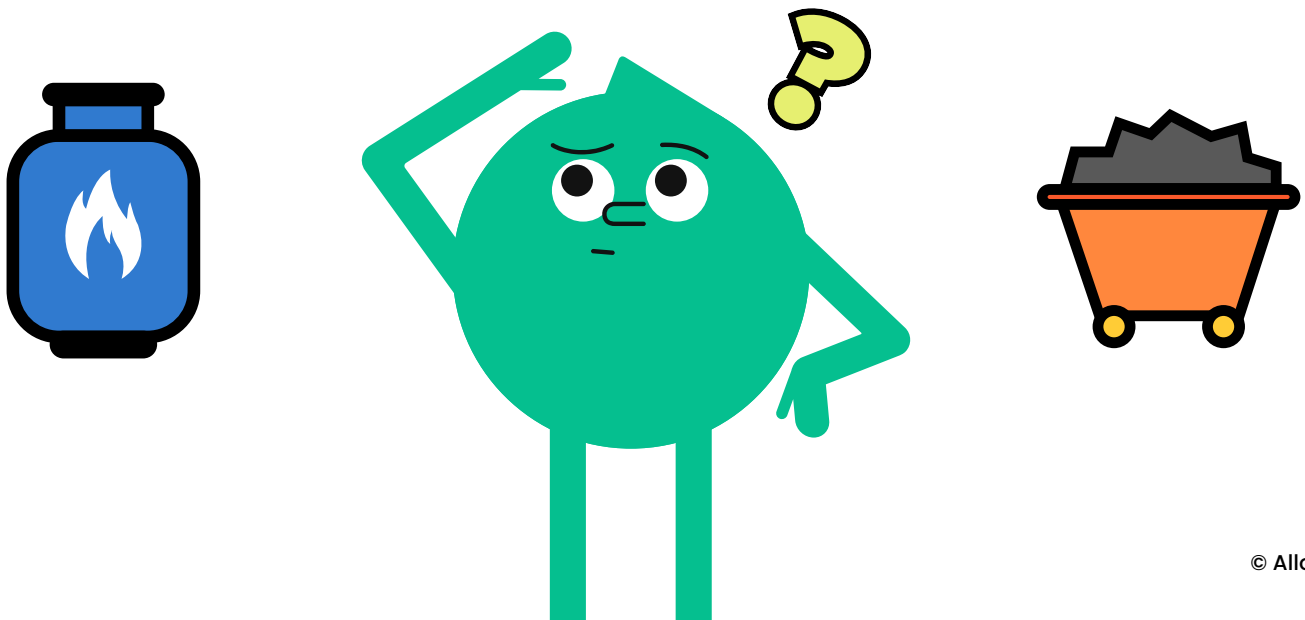
Cendrillon, is a city with a rapidly growing population, and electricity demand is increasing. The city needs to attract new industries to create jobs for its residents. However, to attract these industries, it must guarantee them access to affordable and reliable energy.

A large natural gas deposit has been discovered in the area. Exploiting this deposit would make it possible to build a natural gas power plant to provide a reliable and relatively clean energy source. This option would create local jobs and be cost-effective enough to attract industries.

Another investor is proposing to reopen the region's old coal mine, located just a few kilometres away, and has very large reserves. Coal, a highly polluting energy source, would make it possible to produce electricity at an even lower cost than natural gas. However, residents are concerned about the impact of this decision on air quality and their health.

At the city council, questions arise: Should a natural gas power plant, a cleaner and local energy source, be built, or should the coal mine be reopened to guarantee even lower electricity prices for industries?

Which energy source would you recommend for the city of Cendrillon to meet its electricity and economic development needs? Fill in this table to answer the question.



City of Cendrillon

Important Information

The city's needs:

Energy sources:

Constraints faced by the city:

Energy Source 1

-
- ☐ Renewable energy
☐ Non-renewable energy

Energy Source 2

-
- ☐ Renewable energy
☐ Non-renewable energy

Required Infrastructure

Required Infrastructure

Advantages

Advantages

Disadvantages

Disadvantages

Which energy source do you think the City of Cendrillon should choose? Support your answer with the information entered in your table.

I believe the best energy source for the City of Cendrillon is

Because:

[illegible]