## ALBERTA'S ELECTRICITY MIX

(DISCUSSION QUESTIONS)

JUNIOR/SENIOR HIGH

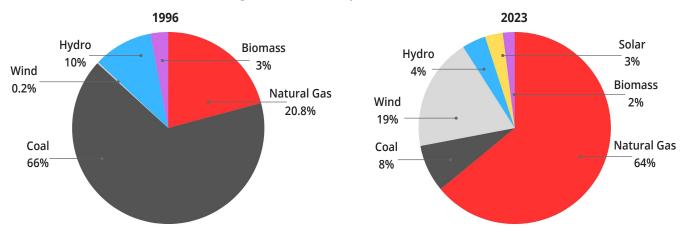


## ALBERTA'S ELECTRICITY MIX

## **DISCUSSION QUESTIONS**

Each province and territory uses a different combination of natural resources for electricity generation, driven by factors such as population size, accessibility, and environmental concerns.

Take a look at which natural resources have historically been used to generate electricity in Alberta:



Electricity generation data for 1996 is from the Government of Alberta and the Alberta Electric Systems Operator. Electricity generation data for 2023 is from the Alberta Electric Systems

Operator¹ (updated December 4th 2023).

## Use the pie charts to discuss the following questions:

- 1. Why do you think Alberta is using natural gas more in 2023?
- 2. Which two natural resources have been used the most for electricity generation in Alberta? Why do you think Alberta has used these two natural resources?
- 3. Which natural resources have decreased over the years? Why? Do you think these resources will be used more or less in 2040?
- 4. What do you want Alberta to look like in 2040?
  - Create a pie chart and adjust the values for each natural resource according to what you want Alberta's electricity generation to look like in 2040.
  - Think creatively and wishfully, but practically. For example, if you pick 100% nuclear
    or 100% solar, think about what would need to change in the next 20 years to make it
    a reality.
  - Which natural resources did you choose to make up the highest percentages of electricity generation? Why?