



# Energy Fact Sleuths



Canada Energy  
Regulator

Régie de l'énergie  
du Canada

# What To Do (1)

1. Read the market snapshots on the province or territory slide assigned to you. Make sure to use the 2023 Report year and the Global Net-zero Scenario.
2. Prove or disprove the statement on the slide using the [Exploring Canada's Energy Future Visualization Tool](#).
3. Copy and paste the link(s) into your slide so they can be shared with the class later.

# What To Do (2)

4. Correct any false statements.
5. **Hint:** Click the Copy URL button on the top right of the page to create a short bit.ly link to add to your slide. You can use a screenshot program to capture a static image of the visualization to add to your slide.

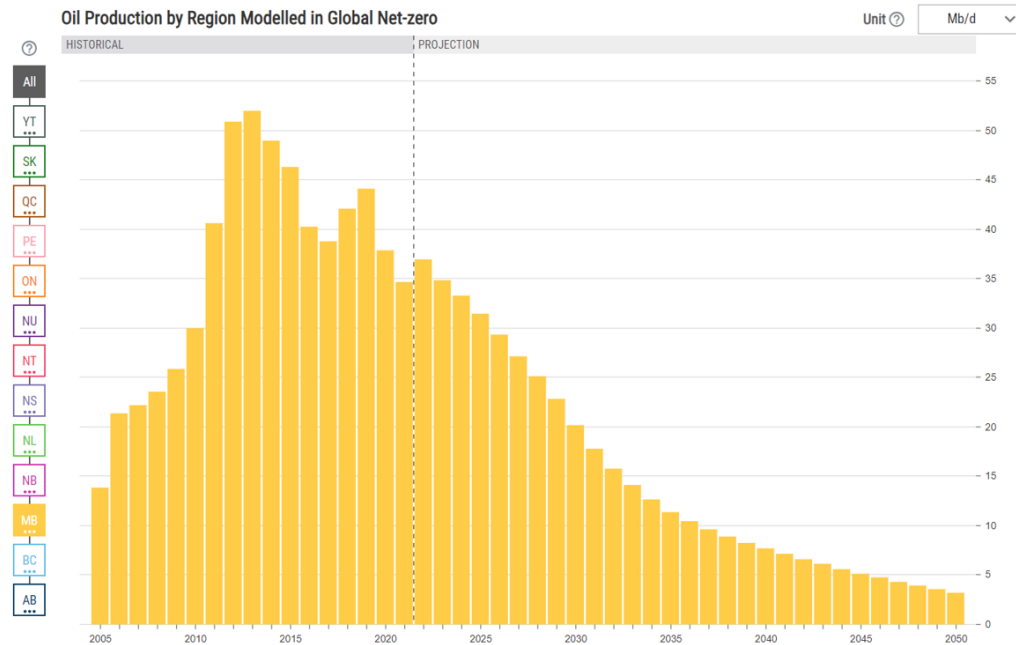


# Example Manitoba (1)

- Using the Global Net-zero scenario, Manitoba's oil production is projected to decline.
- Answer: True – see <https://bit.ly/3rok1qw>



# Example Manitoba (2)



Exploring Canada's Energy Futures 2023 - Canada Energy Regulator



# Provinces and Territories

Province/Territory	Assigned Team Members
Alberta	
British Columbia	
Manitoba	
New Brunswick	
Newfoundland and Labrador	
Nova Scotia	
Nunavut	
Northwest Territories	
Ontario	
PEI	
Québec	
Saskatchewan	
Yukon	
Canada (All)	



# Alberta (1)

- The higher the global price of oil and natural gas in 2050, the higher their production levels.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:





# Alberta (2)

- Oil production in Alberta in 2050, in both Global Net-zero and Canada Net-zero scenarios, is roughly the same.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# British Columbia (1)

- By 2050, in Global Net-zero, in BC, wind will make up the second largest source of electricity generation behind hydro.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# British Columbia (2)

- By 2050, BC is expected to have a higher demand for electricity within the transportation sector than any other province.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Manitoba (1)

- Manitoba is among Canada's top natural gas producers in all scenarios.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Manitoba (2)

- Oil products continue to provide the largest share of total energy demand in Manitoba through the projected period in all scenarios.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# New Brunswick (1)

- The total demand for energy in New Brunswick will be the same in 2050 in all three scenarios.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# New Brunswick (2)

- In New Brunswick, in the Global Net-zero scenario, electricity will make up over 90% of energy demand in the residential sector by 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Newfoundland and Labrador (1)

- In the Current Measures scenario, Newfoundland and Labrador's conventional oil production will grow between 2021 and 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:





# Newfoundland and Labrador (2)

- In 2050, Newfoundland's electricity demand will be 75% of the total energy demand in the Global Net-zero scenario.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Nova Scotia (1)

- Historically in Nova Scotia, coal was the main source of electricity generation, but it will stop being used by 2030 in all scenarios.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Nova Scotia (2)

- In Global Net-zero, electricity generation in Nova Scotia is higher than in Current Measures; therefore, total energy demand is also higher in Global Net-zero.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Nunavut (1)

- In 2021, almost all of Nunavut's electricity came from burning imported oil.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Nunavut (2)

- In 2020, the transportation sector was the largest consumer of Nunavut's electricity. This is expected to continue through 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Northwest Territories (1)

- In 2021, natural gas production in the Northwest Territories accounted for more than 10% of total natural gas production in Canada.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Northwest Territories (2)

- The NWTs use the least amount of energy in Canada.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Ontario (1)

- In all three scenarios, Ontario will emerge as the leading electricity generator in Canada by 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:





# Ontario (2)

- In the Global Net-zero scenario, hydrogen will make up just under 8% of Ontario's industrial demand by 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Prince Edward Island (1)

- In 2021, PEI generated enough electricity to fulfill all of the island's electricity demands.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Prince Edward Island (2)

- In the Global Net-zero scenario, hydrogen makes up nearly 30% of transportation demand in 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Quebec (1)

- In the Global Net-zero scenario, Quebec's electricity demand will make up 62% of its total energy demand by 2050. This is the highest share of electricity demand in the country.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Quebec (2)

- In the Global Net-zero scenario, Quebec will significantly increase its nuclear energy generation by 2050 (compared to 2021).
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Saskatchewan (1)

- In all scenarios, biomass-based electricity generation in Saskatchewan is projected to become the dominant generation source by 2050.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Saskatchewan (2)

- In 2021, Saskatchewan was Canada's second-largest producer of oil. Alberta was the first.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Yukon (1)

- The Yukon will use more energy in the Net-zero scenarios than in Current Measures throughout the projection period.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:





# Yukon (2)

- In the Yukon, in the Global Net-zero scenario, the largest source of energy in Transportation by 2050 will be electricity.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Canada (1)

- Current Measures has higher oil and gas emissions than the Net-zero scenarios from 2023 throughout the projection period.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Canada (2)

- Direct air capture is responsible for more negative emissions in Canada Net-zero than in Global Net-zero. There is no direct air capture in the Current Measures Scenario.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Canada (3)

- Electricity generation and hydrogen production start with positive emissions but become negative-emitting sectors throughout the projection period in all scenarios.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:



# Canada (4)

- In 2050, using the Global Net-zero scenario, emissions from the oil & gas and transportation sectors will be less than 10% of 2021 levels.
- Exploring Canada's Energy Future Visualization Tool:  
<http://bit.ly/32afMzo>
- Team members:





Canada 