



# ENERGY FACT SLEUTHS



# WHAT TO DO

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.
4. Correct any false statements.

*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.



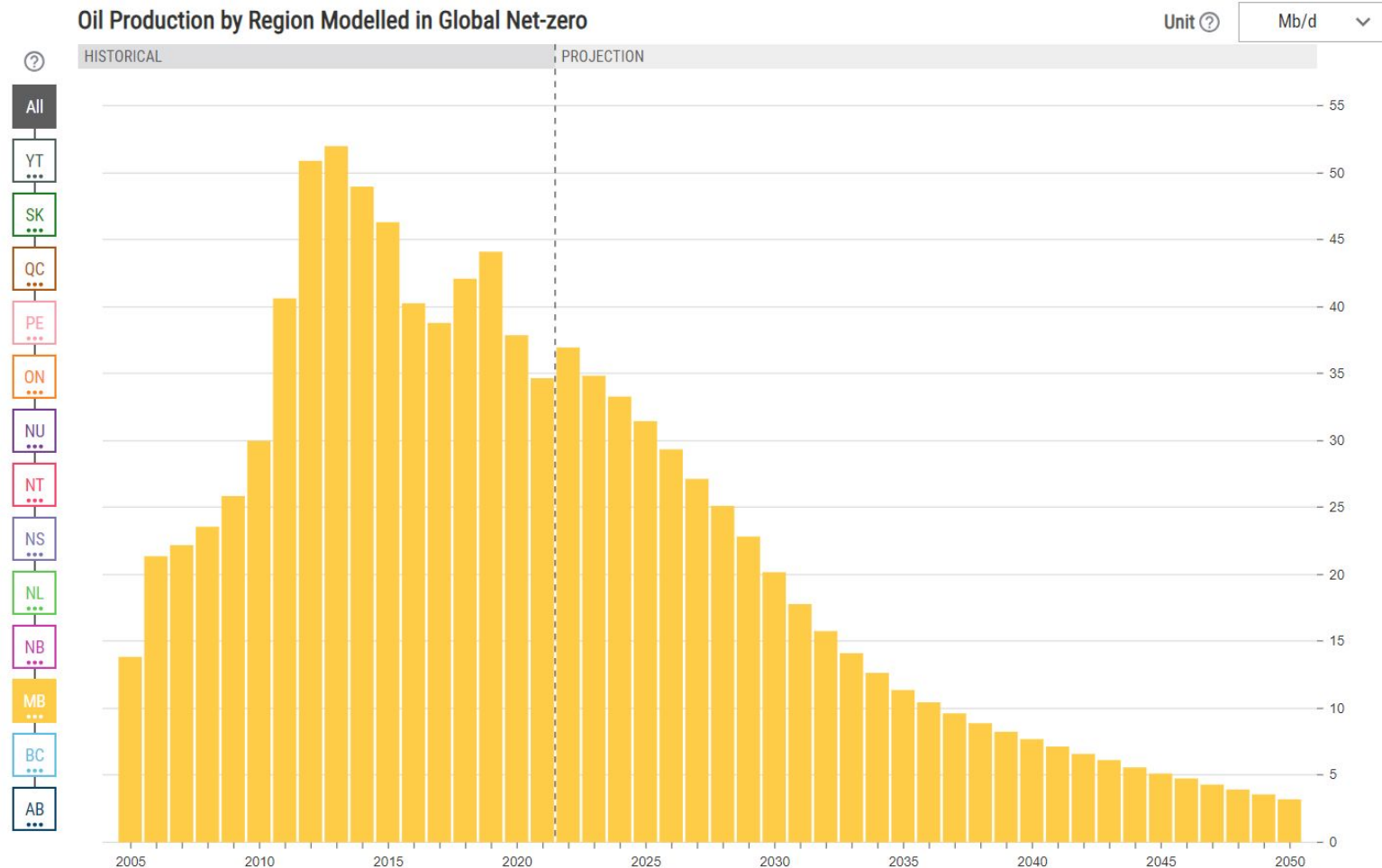
# EXAMPLE

## MANITOBA

Using the Global Net-zero scenario, Manitoba's oil production is projected to decline.

Answer: True – see

<https://bit.ly/3rok1qw>



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.



# ALBERTA (2)

Oil production in Alberta in 2050, in both Global Net-zero and Canada Net-zero scenarios, is roughly the same.



# BRITISH COLUMBIA (1)

By 2050, in Global Net-zero, in BC, wind will make up the second largest source of electricity generation behind hydro.



# BRITISH COLUMBIA (2)

By 2050, BC is expected to have a higher demand for electricity within the transportation sector than any other province.





# MANITOBA (1)

Manitoba is among Canada's top natural gas producers in all scenarios.



# MANITOBA (2)

Oil products continue to provide the largest share of total energy demand in Manitoba through the projected period in all scenarios.



# NEW BRUNSWICK (1)

The total demand for energy in New Brunswick will be the same in 2050 in all three scenarios.



# 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.



# NEWFOUNDLAND AND LABRADOR (1)

In the Current Measures scenario, Newfoundland and Labrador's conventional oil production will grow between 2021 and 2050.



# NEWFOUNDLAND AND LABRADOR (2)

In 2050, Newfoundland's electricity demand will be 75% of the total energy demand in the Global Net-zero scenario.



# 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.



# 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.





# NUNAVUT (1)

In 2021, almost all of Nunavut's electricity came from burning imported oil..



# NUNAVUT (2)

In 2020, the transportation sector was the largest consumer of Nunavut's electricity. This is expected to continue through 2050.



# NORTHWEST TERRITORIES (1)

In 2021, natural gas production in the Northwest Territories accounted for more than 10% of total natural gas production in Canada.



# NORTHWEST TERRITORIES (2)

The NWTs use the least amount of energy in Canada.



# ONTARIO (1)

In all three scenarios, Ontario will emerge as the leading electricity generator in Canada by 2050.



# ONTARIO (2)

In the Global Net-zero scenario, hydrogen will make up just under 8% of Ontario's industrial demand by 2050.



# PRINCE EDWARD ISLAND (1)

In 2021, PEI generated enough electricity to fulfill all of the island's electricity demands.



# PRINCE EDWARD ISLAND (2)

In the Global Net-zero scenario, hydrogen makes up nearly 30% of transportation demand in 2050.





# 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.



# QUEBEC (2)

In the Global Net-zero scenario, Quebec will significantly increase its nuclear energy generation by 2050 (compared to 2021).



# SASKATCHEWAN (1)

In all scenarios, biomass-based electricity generation in Saskatchewan is projected to become the dominant generation source by 2050.



# SASKATCHEWAN (2)

In 2021, Saskatchewan was Canada's second-largest producer of oil. Alberta was the first.



# YUKON (1)

The Yukon will use more energy in the Net-zero scenarios than in Current Measures throughout the projection period.



# YUKON (2)

In the Yukon, in the Global Net-zero scenario, the largest source of energy in Transportation by 2050 will be electricity.



# CANADA (1)

Current Measures has higher oil and gas emissions than the Net-zero scenarios from 2023 throughout the projection period.



# 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.





# CANADA (3)

Electricity generation and hydrogen production start with positive emissions but become negative-emitting sectors throughout the projection period in all scenarios.



# 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.