

# Heat Energy Sources in Canada

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Math<sup>Industry</sup>

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# Team Members

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# The Data Set (Yakine)

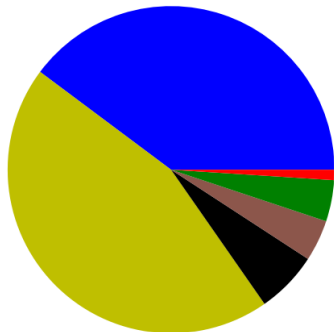
**Primary heating systems and types of energy sources** : A table contains 2304 series, with data for the years 2013, 2015 and 2017 It contains data described by the following dimensions:

- Geography (48 items: Canada; Newfoundland and Labrador; Prince Edward Island; Nova Scotia; ...)
- Primary heating system and type of energy (48 items: All primary heating systems; Electricity; Natural gas; Oil; ...).

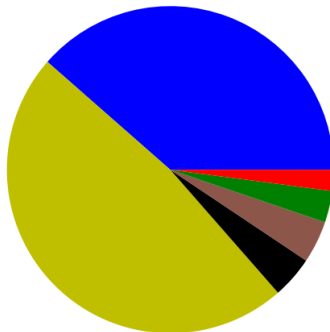
**Source** : <https://open.canada.ca/data/en/dataset/ec3282b6-013f-41b1-aa63-24ad8bda79ee>

# Primary heating types in Canada: 2013-2017

2013



2017



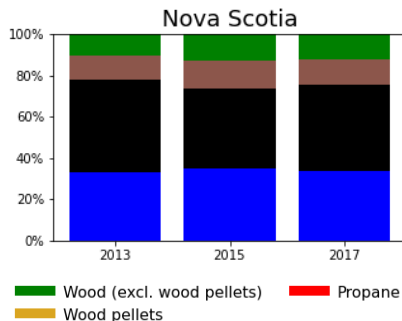
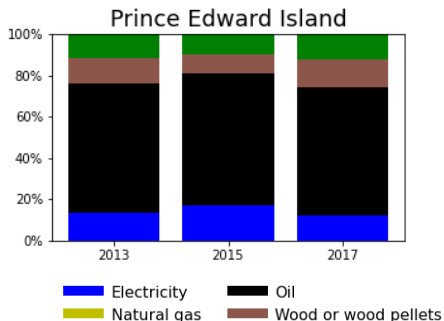
Electricity  
Natural gas

Oil  
Wood or wood pellets

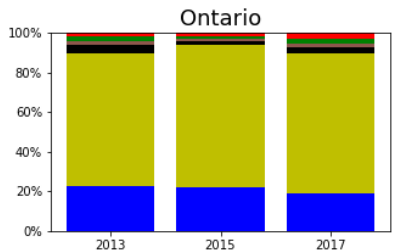
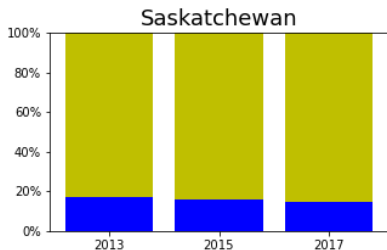
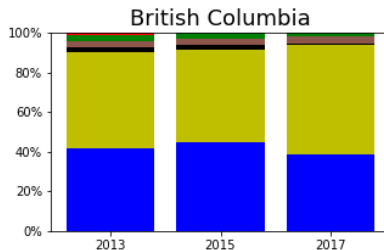
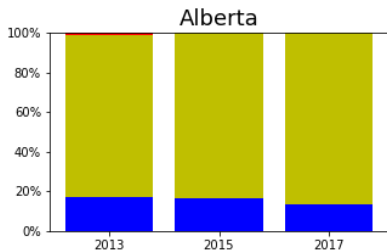
Wood (excl. wood pellets)  
Wood pellets

Propane

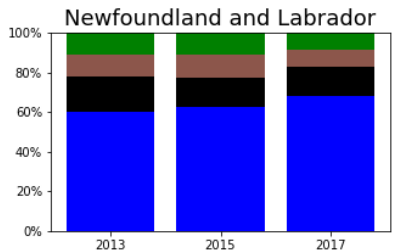
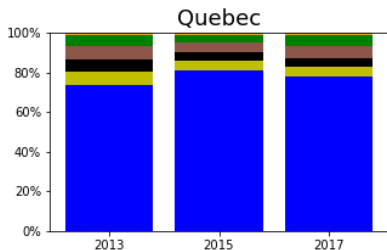
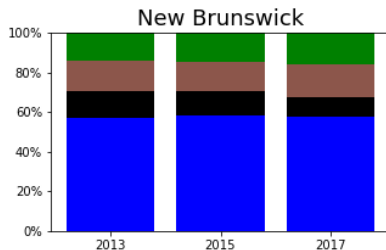
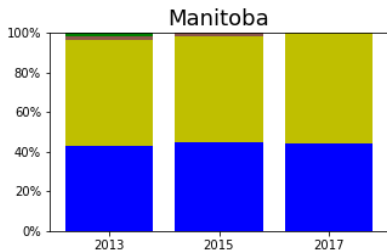
# Change Over Time I (Anton)



# Change Over Time II (Anton)

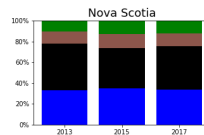
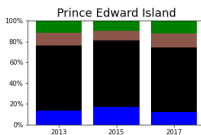
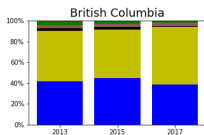
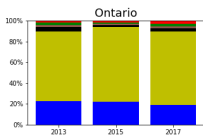
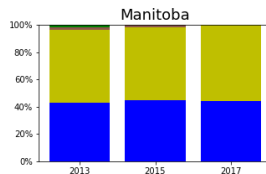
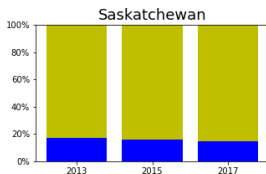
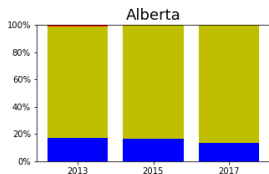
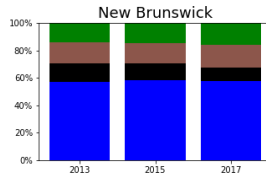
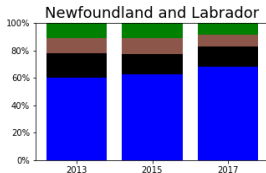
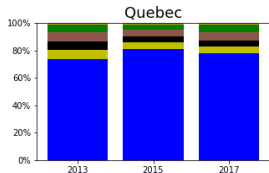


# Change Over Time III (Anton)

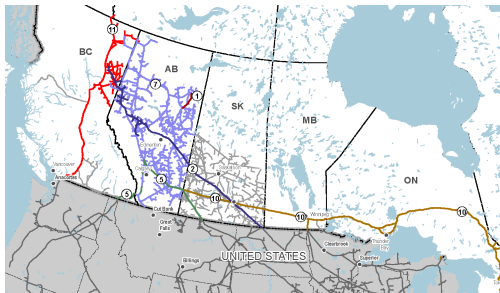
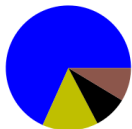
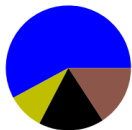




# Province Groupings (Anton)

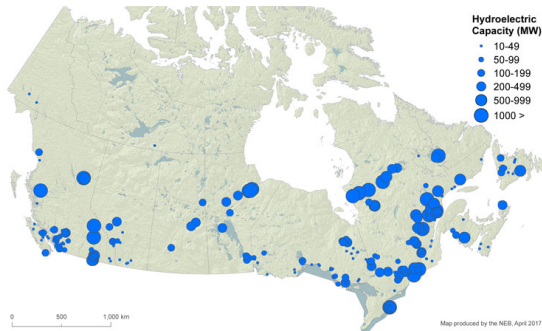


# Cause of the Groupings: Natural Gas



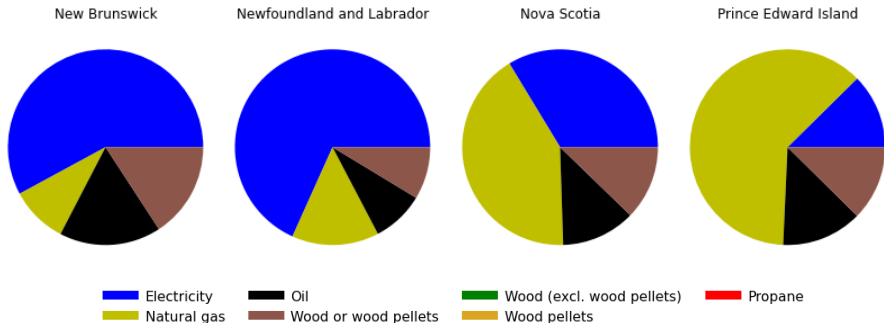
- SK, AB, and parts of BC have an extensive natural gas infrastructure.
- MB and ON have access to the natural gas TransCanada pipeline.

# Cause of the Groupings: Electricity (Alireza)



- QC: large hydroelectric capacity
- NL and NB: close to QC, no access to natural gas

# Cause of the Groupings: Atlantic Provinces (Ben)



Same story in Atlantic region:

- Newfoundland, New Brunswick: access to hydro, use electric.
- Prince Edward Island, Nova Scotia: no hydro access, use oil.

# Summary

No change over time.

The dependence is predominantly geographic.

Thanks for your attention.