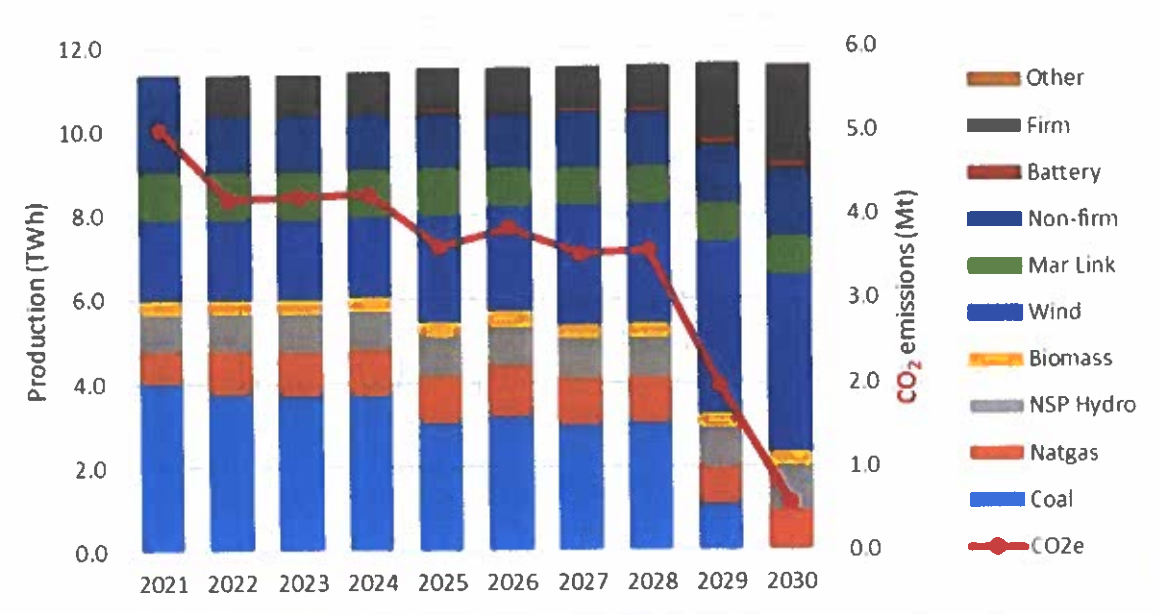


# Comments on Bill 145 Electricity Act (Amended)

Larry Hughes, PhD  
Founding Fellow, MacEachen Institute for Public Policy  
Department of Electrical and Computer Engineering  
Dalhousie University

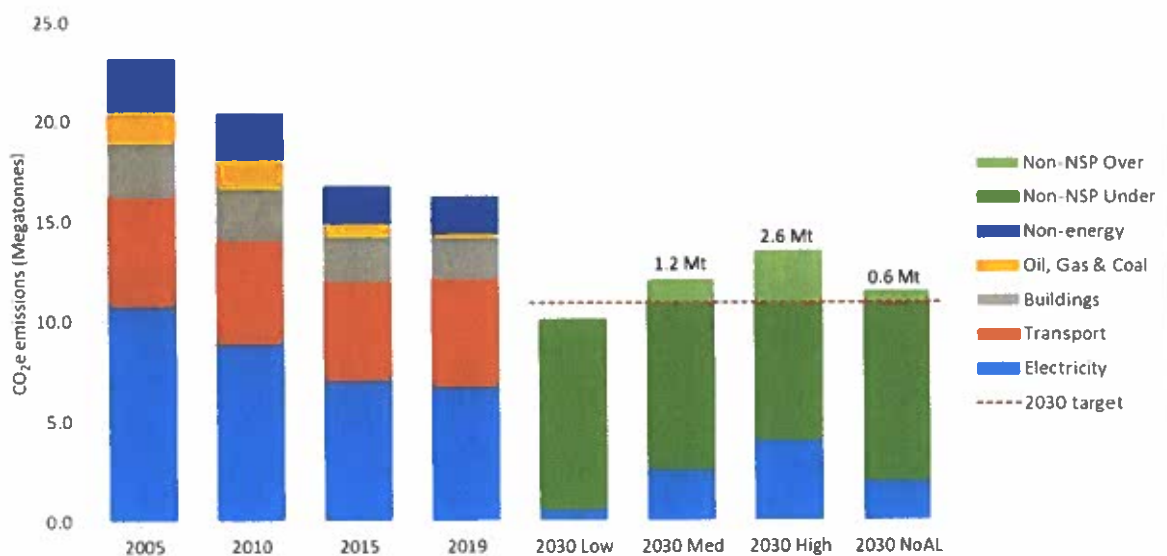
13 April 2022

# NSP's best-case reductions (with Atlantic Loop)

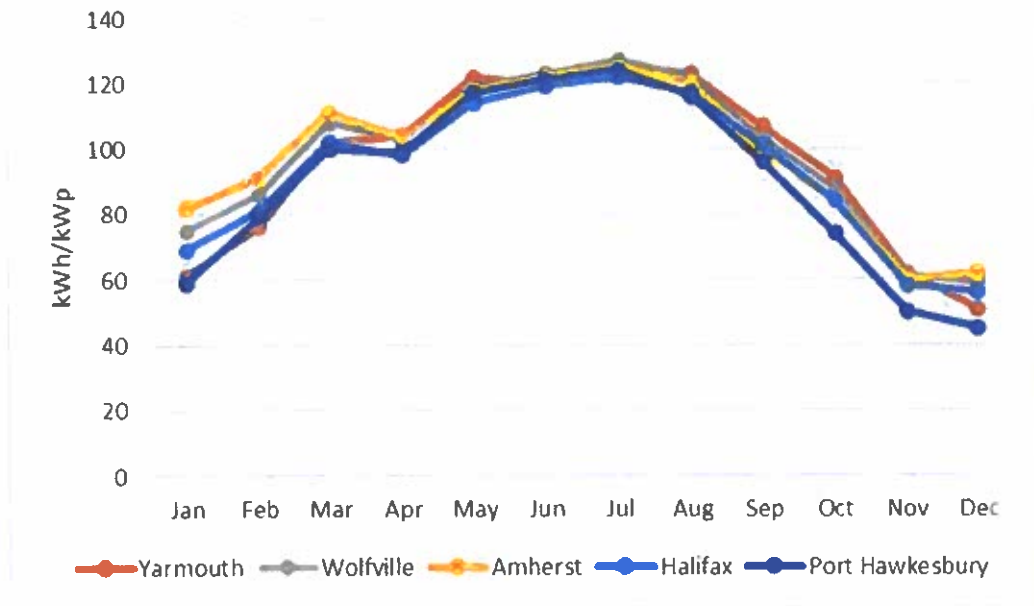


Based on data from [NS Power's 2020 IR](#)

# Achieving Nova Scotia's 53% reduction target

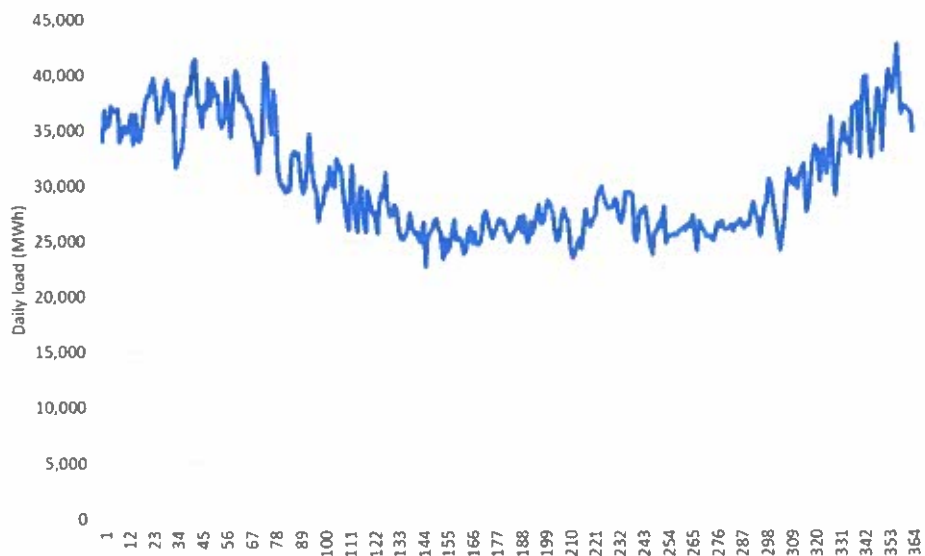


# Solar production peaks in the summer

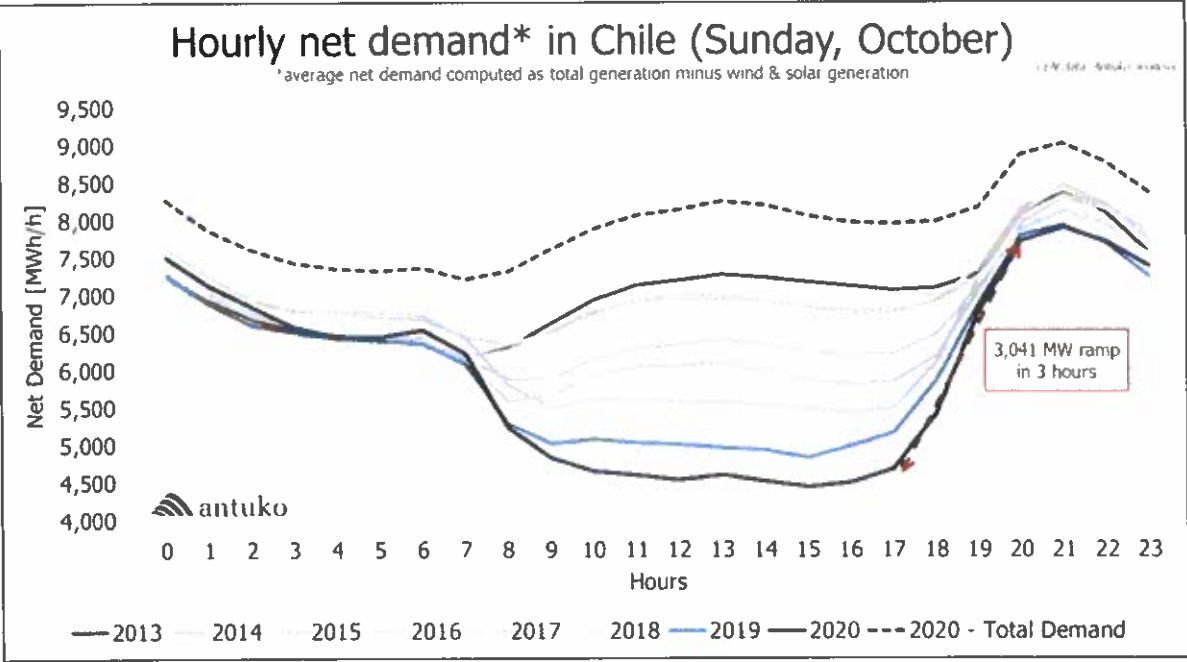


Based on data from [Photovoltaic potential and solar resource maps of Canada](#)

# Nova Scotia has a winter electricity peak



# Ramp rate



## Bill 145 Recommendations

- Require customer generators to inform the electricity provider of their connection
- Require the grid operator to collect and make public solar production statistics
- Require the electricity provider to make public any changes in their revenue caused by increases in variable generation
- Monitor effects of increased variable renewable supply on the electricity provider's ramp rate
- Allow the creation (or recreation) of municipal electricity providers