



JAN 14 2021

Mr. Yves Giroux  
Parliamentary Budget Officer  
99 Bank Street, 9th Floor  
Ottawa ON K1A 0A9

Dear Mr. Giroux:

Thank you for your correspondence of December 21, 2020, requesting, in electronic format, Canada's CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>, HFC, PFC, SF<sub>6</sub> and NF<sub>3</sub> emission projections by detailed economic sectors for the Reference Case, and announced measures scenarios for the years 2011–2030 published in the annex entitled *Modelling and Analysis of a Healthy Environment and a Healthy Economy* (Information Request: IR0575).

As requested, please find enclosed, Canada's CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>, HFC, PFC and SF<sub>6</sub> emission projections by detailed economic sectors for the Reference Case, and announced measures scenarios for the years 2011–2030 published in the annex entitled *Modelling and Analysis of a Healthy Environment and a Healthy Economy*.

Environment and Climate Change Canada projections do not include NF<sub>3</sub>, which represented less than 0.2 kilotonnes of carbon dioxide equivalent per year in the historical period. For the Reference Case scenario, the Department included emissions for 69 sectors, representing the most disaggregated level of information produced from Environment and Climate Change Canada's E3MC model since the Department consolidated some smaller sectors earlier in 2019. For the climate plan, Environment and Climate Change Canada included emissions for 52 sectors, which corresponds to the most disaggregated level of information produced from the EC-Pro model used for this scenario with the corresponding mapping between the E3MC and the EC-Pro economic sectors. Values for years preceding 2016, EC-Pro's base year, have been backwards projected specifically for this request. This was done in a manner consistent with its forward projection routine, and based on energy, emissions and economic data from E3MC. Since the 2020 National Inventory Report on which the models are calibrated does not contain the historical sector level detail requested, the Department has included model-generated values for the 2011 to 2018 period.

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As such, small differences in this time period may be observed when comparing emissions with the historical numbers published in the 2020 National Inventory Report.

Only data contained in files marked "public" may be released. Environment and Climate Change Canada requests that the Office of the Parliamentary Budget Officer treat the data marked "sensitive" as confidential. Should the Office want to make this data public, Environment and Climate Change Canada and Statistics Canada would need to review the datasets for confidentiality concerns and approve their release.

Also enclosed are four sets of Excel files:

- emissions projections for the Reference Case (sensitive);
- emission projections for the climate plan, including WCI credits (sensitive);
- land-use and land-use change and forestry credits (public), and
- macroeconomic assumptions, in particular gross domestic product and population, underlying these projections (public).

Should you require further clarification, Environment and Climate Change Canada would be pleased to provide additional information.

Please accept my best regards.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Wilkinson".

The Honourable Jonathan Wilkinson, P.C., M.P.

Enclosures