

COMPLEMENTARY APPROACHES TO REPORTING CANADA'S GREENHOUSE GAS EMISSIONS

TWO SETS OF UNITED NATIONS (UN) GUIDELINES

A **Greenhouse Gas (GHG) account** is compiled by Statistics Canada in accordance with the United Nations System of Environmental-Economic Accounting (SEEA) guidelines. This framework explicitly aligns environmental data with current economic activity.

The **National GHG Inventory** provides Canada's official GHG emissions and is prepared by Environment and Climate Change Canada in accordance with the United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines. These estimates focus on emissions occurring over Canadian territory.

TWO DIFFERENT FRAMEWORKS

GHG accounting concepts are aligned with those of the UN System of National Accounts which allows environmental information to be integrated with economic information.

Direct GHG emissions are published following the industry classification used by Statistics Canada's economy-wide Supply-Use Tables. Includes estimates for 110 different industries plus two household categories.

The National GHG Inventory is the official report for GHG emissions in Canada - used to track Canada's progress toward meeting international agreements to reduce GHG emissions. Emissions and removals grouped into:

5 internationally-agreed activity sectors:

- Energy (stationary combustion, transport, fugitive sources)
- Industrial Processes and Product Use
- Agriculture
- Land Use, Land-use Change and Forestry
- Waste

6 Canada-specific economic sectors:

- Oil and Gas
- Transportation
- Electricity
- Heavy Industry
- Buildings
- Agriculture, Waste and Other



STATISTICS CANADA'S GHG ACCOUNT related to current economic activity

Emissions from biomass (e.g., wood, spent pulping liquor, ethanol, biodiesel) and prescribed burns

- GHG account doesn't account for the re-absorption of these emissions later

Aviation fuel emissions abroad by domestic airlines

NATIONAL GHG REPORT related to net GHG emissions in Canada

Emissions from synthetic fluorinated gases commonly used in refrigerants and electronics manufacturing

- Data currently insufficient to include in the StatCan GHG account

Aviation fuel emissions in Canada by foreign airlines

Emissions from solid waste

- Not included in StatCan GHG account since these emissions are not a result of current economic production

Emissions of carbon dioxide from non-biomass sources, plus methane and nitrous oxide

Aviation fuel emissions in Canada by domestic airlines