

Greenhouse Gas Industrial Reporting and Control Act (GGIRCA) Bulletin 026

Reporting of emissions from the general stationary combustion of fuel by ensuring the correct use of WCI 23 and 24 and methodologies 1 to 4

Greenhouse Gas Emission Reporting Regulation (GGERR)

Overview

This bulletin provides information to reporting operations and verification bodies regarding use of Western Climate Initiative (WCI) methodologies to quantify and report emissions from the general stationary combustion (GSC) of fuel as required under WCI 23 and 24, under the GGERR. Operators are reminded that they are required to confirm if a high heating value (HHV) analysis is available from their fuel supplier and use this information as applicable to quantify their emissions from GSC. In particular, operators and verification bodies should note that this information is readily available from most natural gas suppliers in B.C.

Please note that inspectors are taking steps to ensure compliance with these requirements.

Industrial operators and verification bodies should ensure they understand the requirements and provide notice of concerns or issues to the Industrial Reporting and Control Team at GHGRegulator@gov.bc.ca.

Correct use of WCI 23 and 24 and methodologies 1 to 4

WCI section 23(e)(1)(A) to (E) sets out conditions for use of Methodology 1 to calculate emissions from the general stationary combustion of a fuel. Regarding natural gas, section 23(e)(1)(B) allows that Methodology 1 may be used for a facility emitting at any level for the combustion of natural gas with a HHV between 36.3 and 40.98 MJ per cubic meter.

WCI 23(e)(1)(E) requires that if the operator can obtain the fuel's HHV, either from the fuel supplier or from routine fuel sampling and analysis, then the operator is required to use the obtained HHV to calculate CO₂, N₂O and CH₄ emissions from the fuel, rather than using the default HHV from WCI Table 20-1 or Table 20-1a. If the HHV is obtained, then

Methodology 2, 3 or 4 is required to be used to calculate CO₂, N₂O and CH₄ emissions. In this case, Methodology 1 may not be used.

Operators must ensure:

- The correct units of measurement are used in the calculations of emissions from natural gas. Particularly, the:
 - Quantity consumed reported in cubic meters
 - HHV in GJ/m³
 - Emission factor (EF) in kg CO₂/GJ
 - Carbon content (CC) in kg/m³
- All applicable requirements for a methodology are met. Specifically, for the calculation of CO₂, operators should refer to:
 - s.23(e)(2)(A) to (E) for use of Methodology 2
 - s.23(e)(3)(A) to (E) for use of Methodology 3
 - s.23(e)(4) for use of Methodology 4
- For the calculation of N₂O and CH₄ emissions, operators should refer to WCI.24(a) to (g) for use of Methodology 2, 3 or 4 and note they are required to be used for a facility that is subject to verification requirements by regulation, except as specified in paragraphs WCI section 23(e)(2) to (4).

Applicability

This guidance applies to emission reports and verifications conducted under the GGERR. This applies to all relevant fuels, including natural gas.

Regulation is determinative

The above is not legal advice and is provided as an aid in understanding the Regulation. Operators are responsible for reviewing the Regulation to ensure compliance with it.