

# GREENHOUSE GASES



Accounting for and mitigating carbon emissions by applying sector-specific expertise at scales from single buildings to entire regions

Regulatory obligations for greenhouse gases (GHG) are changing rapidly and are increasingly stringent. You may be required to estimate the anticipated carbon footprint for new development or report annual emissions for existing structures.

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But positive drivers are also present. You may be wondering if you can save money under cap-and-trade policies. Or you may want to strengthen your organization's public image as environmental leader and good corporate citizen by reporting and managing carbon emissions.

## Our Service

We provide either of two compliance services:

- GHG emissions monitoring/measurements, accounting and reporting, or
- GHG verification to ISO 14065 (ANSI-Accredited Greenhouse Gas Verification Body - Accreditation #1053).

In a complementary service, we can identify GHG credit opportunities and develop strategies to reduce emissions.

Our experts in greenhouse gases are knowledgeable about all aspects of



understanding, quantifying, verifying and mitigating "carbon" emissions. Our team has cross-disciplinary expertise in

- Sector-specific needs (industrial, transportation, oil and gas, waste, commercial, and residential sectors)
- Ambient air quality (generation, dispersion, and mitigation of pollutants)
- Broader implications of climate change
- Energy performance (inter-regional, regional, city, infrastructure, masterplan, and building scales).



We provide extremely thorough, clear and usable GHG documentation. Key to our verification service is a formal management system that ensures consistent and reliable verification. And we're always glad to answer your questions, to make sure you get the best value from our work.

**RWDI also offers several related services that can enhance the value of GHG analyses.**

We can help develop solutions to reduce your future carbon footprint. In this role, we draw on RWDI's experience with evaluating industrial activities, developing emission inventories and analyzing strategies for improving air quality through engineering and process solutions.

RWDI is a valuable partner to clients seeking to...

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#### Explore Innovations

- Benefit from the new economics of cap and trade
- Identify GHG credit opportunities
- Implement a community energy plan

#### Create Opportunities

- Create a favorable public perception
- Reduce costs by reducing carbon footprint through process engineering

#### Meet Challenges

- Manage emissions within both requirements and budget
- Contribute to corporate, government and community initiatives to reduce emissions

#### Fulfill Expectations

- Obtain necessary regulatory documentation, with an exceptional customer experience

## How we work

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### Accounting and Consulting

Demonstrating compliance through GHG accounting starts with a correct understanding of the obligations for reporting. In providing our GHG accounting services, we combine our in-house expertise with recognized provincial, federal and/or international GHG accounting standards.

We track, calculate and report GHG emissions using the appropriate emission factors and protocols.

Depending on your needs we may

- Identify applicable legislation
- Quantify GHG emissions in accordance with the applicable guidelines
- Prepare a report in compliance with the applicable legislation
- Suggest solutions and opportunities that reduce emissions and save energy.

In providing our recommendations, we draw on our staff's exceptional ability to understand and to communicate clearly about:

- Complex chemical and process flow charts
- Emissions inventory tools and datasets.

### Verification

Our verification service is operated in accordance with an accredited, formal management system that adheres to the relevant provincial and international



standards and regulatory program requirements. This system ensures impartiality, competence, confidentiality and freedom from conflict of interest. Unlike GHG accounting, where we calculate your GHG emissions, our verification service provides confirmation that your calculations and methodologies have been fairly and accurately presented. If we provide GHG accounting services, we cannot provide GHG verification to the same client, and vice versa.

Our strength as a verification body is based on our access to a technical staff comprised of dozens of professional engineers and scientists. This staff includes experts knowledgeable about complex municipal facilities and operations, such as landfills, renewable energy systems, buildings and transit systems. Our staff also includes experts in emissions measurement, air quality and climate science. These strong fundamentals are supported by our staff's direct training and experience with ISO 14064-3.



In 2014, the coupling of our formal management system with our technical competencies was acknowledged as world class. We achieved our accreditation to ISO 14065 by the American National Standards Institute (accreditation ID#1053). On June 1, 2015, ANSI extended our accreditation to include additional sector groups.



With this ANSI accreditation, we are authorized to conduct organization-level GHG verifications under various regulatory and voluntary programs for organizations in the following sectors:

- General
- Manufacturing
- Power generation
- Mining and mineral production
- Metals production
- Chemical production
- Oil and gas extraction, production and refining including petrochemicals
- Waste

