



GHG Accounting Measurement, Reporting, and Verification of Carbon Emissions



We offer unparalleled expertise, robust results, and absolute credibility

- ✓ *We have a diverse staff with the full range of skills needed to measure carbon emissions, successfully report emissions, and verify existing inventories and procedures.*
- ✓ *Our inventory methodologies include all the fundamental elements such as specification of appropriate boundary conditions, collection of necessary data from corporate and/or supply chain operations, and development of the inventory estimates and supporting data management tools that will allow you to update your inventory easily in the future.*
- ✓ *We also offer a suite of services that complement carbon measurement strategies and practices.*
- ✓ *We have decades of experience developing executive climate strategies with a strategic focus on managing emissions throughout the supply chain.*

Greenhouse gas (GHG) accounting encompasses all activities associated with measuring, reporting, and verifying a corporation's carbon emissions footprint. Also known as baseline development, carbon footprinting is a critical building block in an effective corporate strategy to address climate change. Because they provide insight into the efficiency of material, energy, and service flows across corporate operations, measuring, tracking, and analyzing your carbon footprint is crucial from a risk perspective and key to identifying business opportunities. In addition, a complete, accurate, and fully documented inventory is essential for complying with reporting requirements under emissions trading systems or other regulatory and voluntary schemes.

Our Approach

ICF offers clients assistance with measuring, reporting, and verifying carbon footprints through GHG inventory and protocol development. In terms of both design and implementation, our approach has been honed through more than 20 years of experience developing carbon inventories for scores of clients. Our climate strategy and inventory development experts can help you:

- Understand the implications of GHG reporting principles on operations, supply chains, and services;
- Design and implement key elements and principles of carbon and energy reporting processes;
- Define a methodological framework based on detailed analysis of representative operations and facilities; and
- Implement the chosen methodology on operations, in order to aggregate the emissions and energy data collected to generate a bottom-up inventory of emissions.

In addition to working with corporations to develop their inventories, ICF verifies existing carbon measurement systems. Our expertise across all GHG emissions issues is key to a credible verification. ICF has extensive experience across the following dimensions, each essential to success in an audit or verification:

- Activities necessary for identifying failures in the GHG reporting system and the impact on the company's GHG statement;
- Techniques relevant to monitoring, measurement (including knowledge of calibration), and calculation of GHG emissions; and
- Detailed knowledge of the types of GHG emissions, locations of emission sources, and level of emissions expected from the sources throughout corporate operations.

Featured Products

GHG Inventory and Reporting

ICF helped one of the world's largest insurance companies prepare its submission to the Carbon Disclosure Project. Responsibilities included preparation of the company's global GHG inventory, including advice on appropriate inventory protocols, level of detail to consider in preparation of the inventory, and coordination of all business divisions in the company.

GHG Inventory Development

For a major Internet-based business, ICF is designing and implementing a global GHG inventory system. ICF is responsible for all aspects of the inventory development process, including specification of the appropriate boundary conditions, collection of necessary data from all global operations, and development of the inventory estimates and supporting data management tool that will allow the company to update its inventory easily in subsequent years.

Inventory for American Airlines Ground Support Operations

ICF developed an emission inventory of American Airlines ground support equipment present in the South Coast Air Basin, California. A comprehensive listing of information was developed regarding this equipment, including type of equipment, manufacturer, year of manufacture, hours of operation per year, engine horsepower rating, fuel type, on-road equivalent status, and turbine air start status (if applicable). These data were then used to estimate emissions of NO_x from this equipment.

Emissions Protocol Development and Verification

ICF supported the first-ever GHG protocol and inventory audit of an international oil and gas company, BP, by reviewing and improving BP's GHG emission protocols. ICF was the primary technical lead that assessed BP's carbon dioxide and methane protocols and determined the need for and prepared improvements to its methane protocol for all global upstream, downstream, and marketing operating units. BP used these protocols for establishing its internal emissions trading system, which reportedly saved the company hundreds of millions of dollars.

GHG Emissions Inventory and Strategic Advisory

ICF advised HSBC throughout its evolution to track energy use, document emissions, and become a carbon neutral company. For HSBC's global operations, ICF assessed total GHG emissions and advised HSBC on options for attaining the goal of carbon neutrality. In addition to the GHG inventory work, ICF provided due diligence for various emission reduction projects and managed the acquisition of carbon offsets through a tendering process.

Carbon Footprint Analysis

ICF has been involved in the design, analysis, and implementation of a GHG footprint for News Corporation, one of the world's largest media companies. The inventory served as the foundation for the company's recently announced plan to be carbon neutral by 2010. The assignment included: (1) assisting News Corporation in understanding the operational implications of GHG reporting principles that reflect corporate best practices; (2) assisting News Corporation in establishing the key elements of its GHG and energy reporting process; (3) defining a methodological framework based on detailed analysis of representative operations at News Corporation; and (4) implementing the defined methodological framework to News Corporation global operations and aggregating the global CO₂, GHG, and energy data collected through the designed framework.

GHG Emissions Inventory and Climate Strategy

ICF is carrying out the GHG inventory for a global financial company to establish a basic grounding for the company's climate change strategy. In parallel, ICF is conducting a benchmark exercise covering peer company activities in areas such as emission inventory, climate commitments, and green products. The main objectives of the project are to recommend an adapted reporting tool for future carbon footprint calculations, determine detailed reduction targets, develop cost estimates for emission reduction options, and analyze opportunities for climate-oriented products and services.



Best Advisor:

EU Emissions Trading Scheme



Best Advisor:

North American GHG Markets



Best Advisor, Runner Up:

Kyoto Project Credits

About ICF International

ICF International (NASDAQ: ICFI) partners with government and commercial clients to deliver consulting services and technology solutions in the energy, climate change, environment, transportation, social programs, health, defense, and emergency management markets. The firm combines passion for its work with industry expertise and innovative analytics to produce compelling results throughout the entire program life cycle, from analysis and design through implementation and improvement. Since 1969, ICF has been serving government at all levels, major corporations, and multilateral institutions. More than 3,500 employees serve these clients worldwide. ICF's Web site is www.icfi.com.

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