



# Carbon Footprinting



## ICF's Carbon Footprint Services

ICF's climate strategy and inventory development experts can help companies:

- Understand the implications of GHG reporting principles on operations, supply chains, and products/services
- Design and implement key elements and principles of carbon and energy reporting processes
- Define a methodological framework based on detailed analyses of representative operations and facilities
- Implement the chosen methodology on operations, in order to aggregate the emissions and energy data collected to ascertain carbon footprint

Carbon footprinting, also known as baseline or greenhouse gas (GHG) inventory development, can be the building block for developing an effective corporate strategy to address climate change. Understanding the implications of measuring and analyzing carbon footprints (corporate or product) is crucial, not only from a risk perspective but also from a business opportunity, as it provides insight into the efficiency of material, energy, and service flows across corporate operations. Identification of risk and efficiency opportunities is fundamental to gaining competitive advantage in an increasingly carbon constrained society.

ICF International has more than 20 years of experience developing and supporting climate change strategies and policy development, implementation, and evaluation. We are the leading international experts in carbon footprinting and climate-neutral strategy development. *Environmental Finance* magazine recently named ICF Best Carbon Advisory Company for both North American and European markets.

## Our Approach

ICF aids private and public clients in measuring and monitoring carbon footprints through GHG inventory and protocol development. We have carbon footprinting experience at all scales, including entity (corporate and project/product) inventories for dozens of companies; state inventories (emission inventory improvement program guidance and inventories for CA, FL, and TX); national inventories, including for the United States and Canada; and international emission scenarios for the Intergovernmental Panel on Climate Change and the U.S. Environmental Protection Agency (U.S. EPA).

Our approach to carbon footprinting, both in terms of design and implementation, is built around several fundamental elements, including 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 tool that will allow clients to update their inventory easily in subsequent years.

In addition, ICF offers a suite of services that complement carbon footprinting strategies and practices. For example, we have experience developing executive climate strategies with a strategic focus on managing emissions throughout the supply chain. Strategy development also can entail in-depth understanding of key factors and impacts on energy markets, maximizing value of emission reduction investment projects, or participating in emissions trading. Our experts also provide regular guidance and support for the preparation of regional and international carbon reporting submissions, such as the Carbon Disclosure Project (CDP). In work related to CDP submissions, ICF is perfectly positioned to prepare corporate inventories and provide advice on appropriate inventory protocols, level of detail to consider during the inventory preparation process, and effective coordination of all business divisions in the company.

For product-specific carbon footprints, ICF can evaluate basic energy flows throughout the supply, manufacturing, and distribution chains, or perform life cycle analysis, for clients to obtain a detailed understanding of carbon over the product's life cycle. This enables clients to develop product design and supply chain operation strategies that minimize their total carbon footprint quantifiably and verifiably, both essential qualities for corporate communications in this age of transparency.

## Featured Solutions

### GHG Inventory Development

ICF is assisting Yahoo! with the formulation of its carbon neutral strategy. Our initial support is focused on the design and implementation of the company's global GHG inventory system. ICF is responsible for all aspects of Yahoo!'s carbon footprinting process, including the collection of GHG data from global operations, and the development of inventory estimates. The final tool will enable Yahoo! to update its corporate inventory on a going forward basis.

### Climate Strategy Development and Advice on Corporate Reputation Strategy

ICF developed a climate strategy for 2006–2010 for a global consumer goods company that represents one of the world's most recognizable brands. We helped evaluate the company's options for its 2006–2010 climate strategy for various categories of emissions, including direct manufacturing, product transport, business travel, and other indirect emissions. Our work also provided input for the company's corporate reputation strategy.

### Carbon Management Executive Workshop

ICF developed a carbon management workshop in London, as part of the SMI Emissions Trading Seminar, titled "Managing Carbon in Your Supply Chain." The workshop addressed development of a strategic focus for managing emissions throughout the supply chain, understanding the key factors and impacts on energy markets, maximizing the value of emission reduction investment projects, and participating in emissions trading. Workshop participants included corporate executives involved in energy markets, financial management, and strategic planning.

### Inventory and Protocol Development

ICF developed a protocol and spreadsheet tool for calculating corporate-wide transportation-related GHG. The protocol and tool are part of the U.S. EPA's Climate Leaders Program, in which companies can report emissions voluntarily for a number of sectors.

### GHG Emissions Inventory and Strategic Advisory

ICF advised HSBC throughout their evolution to track their energy use, document their 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 International 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 CO<sub>2</sub>, 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.

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## 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 3,000 employees serve these clients worldwide. ICF's Web site is [www.icfi.com](http://www.icfi.com).

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