

Noblis

“Operation Green”

Global warming may be the defining issue of our time. We face long-term, global challenges without straightforward solutions. Yet there are cost-effective steps we can take now as individuals and organizations that collectively will make a difference. To address these concerns, Noblis initiated “Operation Green” — an internal project to calculate carbon emissions. The project involves developing a web-based tool that assists decision-makers to both assess and address their emissions. Along the way, it became evident that other private and public sector organizations are seeking innovative approaches to calculate and reduce their carbon emissions. As a result of this interest, Noblis would like to share its story on the greenhouse gas (GHG) enterprise model to support the cost-effective achievement of green goals.



The Noblis model is based several standards-based protocols and generates GHG reports in anticipation of future government requirements and policies. It stems from the World Resources Institute (WRI) Corporate Accounting and Reporting Standard and complies with the International Standards Organization ISO 14064-1 *Greenhouse Gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals*. The web-based tool can also assist federal agencies in complying with Executive Order 13423 *Strengthening Federal Environmental, Energy, and Transportation Management*.

Noblis' GHG web-based tool is an easy-to-use application that examines employees' commuting patterns, facility energy-use, and business travel on an enterprise level. After this preliminary assessment, Noblis professionals continue to work with decision-makers to interpret the results and tailor strategies for reducing emissions that both save and suit your organization's unique priorities and needs.

The screenshot shows the 'Noblis Operation Green' website. The header features the title 'Noblis Operation Green' and the subtitle 'Managing Your Enterprise Wide GHG Footprint and Calculating Your ROI'. Below the header is a navigation menu with buttons for 'Home', 'Go Green', 'Save Green', 'Get Started', 'Tools and Resources', and 'About Noblis'. The main content area is divided into two columns. The left column is titled 'Tools' and contains a section 'Calculate Your Impact on Climate Change' with an introductory paragraph and five tool descriptions: 'GHG Analyzer', 'Employee Data Collection Survey', 'ROI Calculator', 'Maps/GIS GHG Emissions Profile', and 'GHG Report Generator'. The right column is titled 'Resources' and contains sections for 'Key Organizations' (listing World Resources Institute, EPA Climate Change, The Climate Registry, The CA Climate Registry, and Energy Information Administration), 'Publications' (listing WRI The GHG Protocol, Executive Order 13423, WRI Service Sector Guide, and EPA Inventory of US GHG & Sinks), and 'Case Studies' (listing Case Study 1, Case Study 2, and Case Study 3). The footer features the Noblis logo and the tagline 'For the best of reasons'.

Noblis Operation Green
Managing Your Enterprise Wide GHG Footprint and Calculating Your ROI

Home Go Green Save Green Get Started Tools and Resources About Noblis

Tools

Calculate Your Impact on Climate Change
Green House Gases vary in their ability to trap heat in the atmosphere and some are more harmful to the climate than others. The major GHGs are water vapor, which causes about 36–70% of the greenhouse effect on Earth (not including clouds); carbon dioxide, which causes 9–26%; methane, which causes 4–9%, and ozone, which causes 3–7%. The term Global Warming Potential (GWP) is used to reference the heat trapping ability relative to carbon dioxide. Following the process below and using the tool provided your organization will be able to calculate you greenhouse gas emissions in carbon dioxide equivalents CO₂e.

- > **GHG Analyzer** - Step-by-step process that builds your organization's GHG inventory and calculates your GHG emissions based on World Resources Institute (WRI) protocols and International Standards Organization (ISO) standards.
- > **Employee Data Collection Survey** - collects employee commuting data for your organization to calculate indirect emissions and have the ability to analyze cause and effect relationships of different commuting scenarios
- > **ROI Calculator** - provides return on investment, annual savings, carbon reduction, years to payback for "green" investments, and a "top ten" list of investment recommendations for your organization.
- > **Maps/GIS GHG Emissions Profile** - displays your organization's locations on a single map depicting net carbon emissions across sites, and by county/locale in map views using a geographic information system
- > **GHG Report Generator** - automatically generates your organization's GHG report according to industry standards with the capability to roll up emissions to a corporate level or remain site specific

Resources

Key Organizations

- [World Resources Institute](#)
- [EPA Climate Change](#)
- [The Climate Registry](#)
- [The CA Climate Registry](#)
- [Energy Information Administration](#)

Publications

- [WRI The GHG Protocol](#)
- [Executive Order 13423](#)
- [WRI Service Sector Guide](#)
- [EPA Inventory of US GHG & Sinks](#)

Case Studies

- [Case Study 1](#)
- [Case Study 2](#)
- [Case Study 3](#)

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For the best of reasons

The model provides at-a-glance, real-time visualization of key metrics, allowing leaders to weigh how changing corporate policies on telecommuting, core work hours, and other energy-related business decisions can affect emissions.

