

Green Building & Sustainability Consulting Services

It seems one cannot go a single week without reading about the adoption, application, or expansion of green building techniques lead by either market forces or legislative edict. Reading the words or recognizing the conceptual value may be easy, but implementation on a new project or absorption into existing operations is not always such a simple matter. Delivering a project that truly meets your objectives is much more complicated than running down a checklist and tallying points. The outcome of your green efforts should be a reduced environmental footprint, increased energy efficiency, reduced climate change risk and an improved business financial position.

MDC can help you get the "green" from your green project.

While much in the realm of green building design is based in a long history of existing design and construction knowledge and practice, the green building process truly benefits from the application of a systems thinking approach to executing both the design and construction process. MDC excels in the area of systems thinking as it relates to capital project planning and execution.

Green Building Consulting

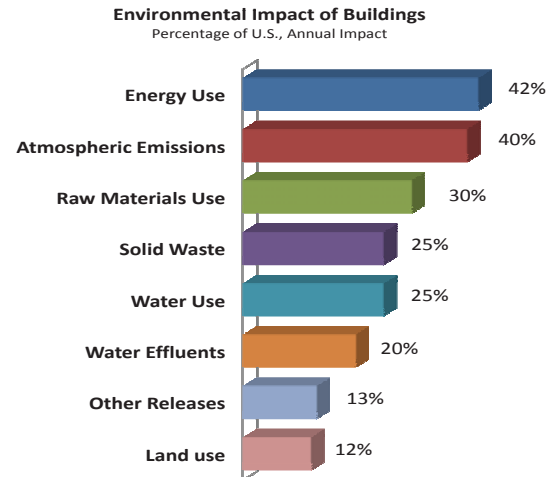
MDC can assist you in the development of an internal green building program which can be used on an individual building project or across a portfolio of projects either planned or projected. MDC utilizes industry accepted energy modeling software and techniques to develop benchmark models for your project. MDC puts a special focus on the "engineered" building systems as well as the interface of building exterior envelope design and overall energy utilization. MDC's models are designed to provide a realistic, rational information base so that the analyses of options and alternatives can be done with realistic and predictable outcomes.

- Strategy Development and Analysis
- Green Design Consulting
- Building Envelope/Facade Analysis
- Integrated Project Delivery Consulting
- Commissioning and Operations Planning
- Insurance Program Consulting
- Troubleshooting



Sustainability Consulting

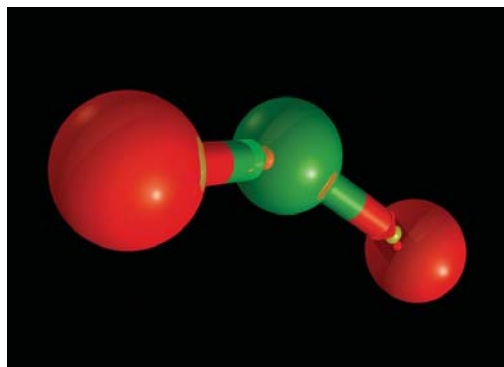
Taking a view of a building as a part of an overall resource footprint, an Owner might want to look at how that building fits into the total resource use profile of one's organization. A reduction in that total footprint might be the goal of sustainability analyses and programs. Keep in mind that the move towards sustainability in the business world can be driven by more than just an attempt to 'be nice to the earth.' An organization with a reduced demand for resources per unit output is an organization that has reduced its "cost of goods sold" and enhanced its bottom line. MDC can help your group develop a sustainability program, analyze your footprint, and develop ways to reduce that footprint.



- Condition Assessment and Analysis
- Benchmarking
- Incentives Inventory
- Strategy Development
- Implementation Planning
- Monitoring and Documentation

Carbon Limit

There are mounting pressures from both the marketplace and regulatory bodies to push for protective initiatives to address greenhouse gas emissions and carbon footprints. Many publicly traded companies have added sections to their annual reports addressing carbon footprint or other environmental measurement metrics. Greenhouse gas¹ emissions are a critical component of sustainability evaluations and analyses. MDC can help you assess, analyze, evaluate, and address your firm's carbon footprint. MDC uses the internationally accepted "**Greenhouse Gas Protocol**"² as an analysis tool coupled with the **GHG Protocol Corporate Standard** for preparing a GHG Emissions Inventory.



- Greenhouse Gas Assessment
- CO2 Equivalency Analysis
- Carbon Footprint Analysis
- Footprint Reduction Strategies
- Offset and Credit Analysis

¹ Greenhouse gases as defined under the terms of the Kyoto Protocol are as follows: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulphur hexafluoride (SF₆).

² The "Greenhouse Gas Protocol" is produced under a joint initiative of World Resources Institute and the World Business Council for Sustainable Development