



Energy Modeling



Using energy modeling, Viridian can prioritize energy efficiency measures by first cost, rate of return, and environmental impact. With the clients input, an implementation plan can be developed that addresses the triple bottom line: *Profit, People, and Planet*. Viridian gives the upfront engineering support to define savings, quantify project costs, and develop plans for implementation

Energy modeling, control system analysis, building envelope review, equipment audits and system commissioning are services we provide ensuring optimal building and system performance. Like building commissioning, this service is often required to achieve LEED certification and is often offered in a bundled package for clients, but can also be offered independently.

An energy model is a simulation based on building design, envelope, orientation, weather, schedules, controls, and energy-using systems to project comparative energy consumption and costs. This process helps in evaluating the overall performance of your building design and energy conservation measures compared with key building standards such as ASHRAE 90.1-2004/7.

Energy Modeling results provide data that will assist our experts in making recommendations to improve energy performance, such as changing the building orientation, adding better glazing, improving chiller efficiency, implementing daylighting strategies, and many other integrated design strategies.

Viridian energy models conform to all requirements of:

- *USGBC / LEED Rating System*
- *US Department of Energy*
- *ASHRAE 90.1*
- *Energy Policy Act 2005*



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“Optimizing Building Performance”