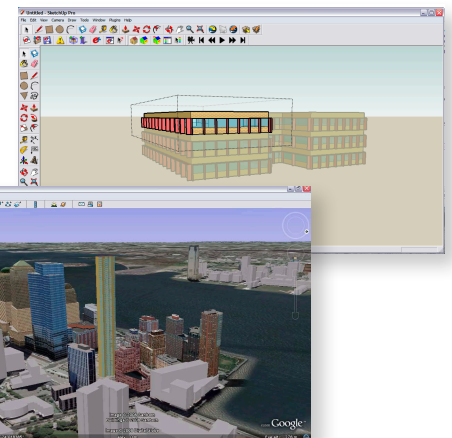
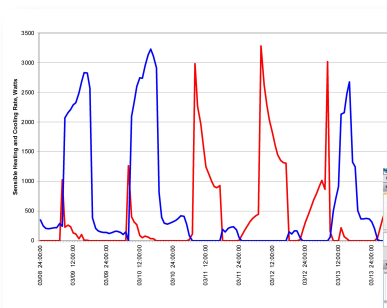
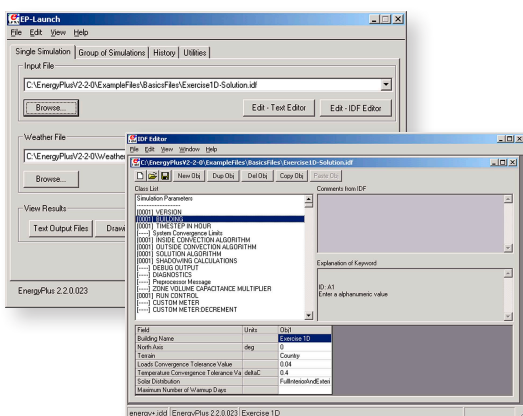


EnergyPlus

The Most Powerful Predictor of a Building's Energy Efficiency

Where's the energy going in your building?

Find out with EnergyPlus™ software. Enter your building characteristics and EnergyPlus will model heating, cooling, lighting, ventilating, and water usage, as well as carbon emissions—everything you need to do an integrated evaluation of your building's energy flows.



Energy-efficient technologies are integrated most effectively into a building during the design phase. To facilitate energy-smart design, the U.S. Department of Energy (DOE) provides builders and architects the tools to predict energy flows in commercial and residential buildings *before* construction with **EnergyPlus**.

EnergyPlus, DOE's fully integrated building; heating, ventilation, and air conditioning (HVAC); and renewables simulation program is one of the most robust simulation tools available in the world today. It models building heating, cooling, lighting, ventilating, and other energy flows, as well as water. The program includes many innovative simulation capabilities, such as time steps of less than an hour, modular systems and plant integrated with heat balance-based zone simulation, multizone air flow, thermal comfort, water use, natural ventilation, and photovoltaic systems.

EnergyPlus is a stand-alone simulation program without a "user friendly" graphical interface. The program reads input and writes output as text files. Graphical interfaces, such as **OpenStudio™** for Google SketchUp and **EnergyPlus Example File Generator**, are available to simplify creating, editing, and running **EnergyPlus** input files.

Since its 2001 introduction, the free program has been downloaded in more than 120 countries and used in the design of such buildings as the San Francisco Federal Building. For more information about **EnergyPlus** or to download the free program, visit www.energyplus.gov.

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www.energyplus.gov