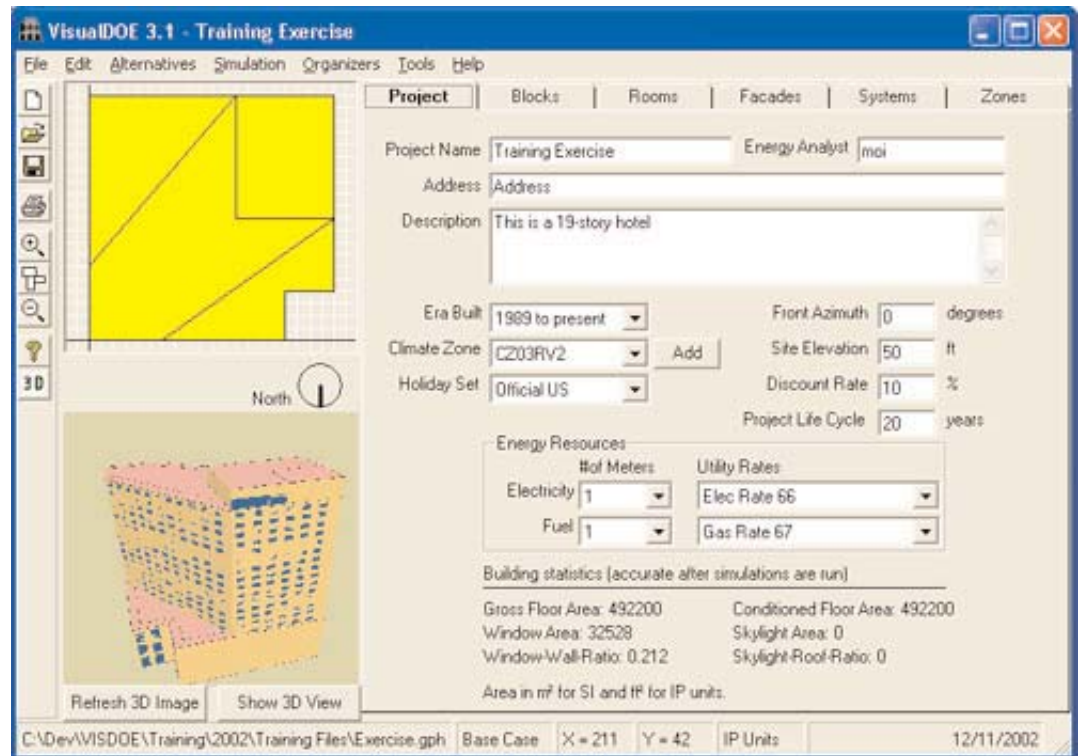


VISUALDOE

WHAT IS VISUALDOE 3.1?

VisualDOE 3.1 is a green building design tool that helps users quickly and accurately evaluate energy and demand impacts of design alternatives using the powerful DOE-2 simulation engine developed by Lawrence Berkeley National Laboratory. The program covers major building systems, including building envelope, lighting, daylighting, service water heating, HVAC and central plant. VisualDOE runs on PCs with the Microsoft Windows platform.

VisualDOE is developed by architects, engineers and computer programmers. VisualDOE has evolved over the years since its first release in 1994. Version 3.1 was released in December 2002.



VisualDOE 3.1 Main Form

VisualDOE emphasizes the balance between the ease-of-use and the flexibility for users with different levels of simulation skill and background. In a nut shell, VisualDOE has four major components, the windows user interface, the building and HVAC database, the DOE-2 simulation engine, and the simulation diagnostic and support tools.

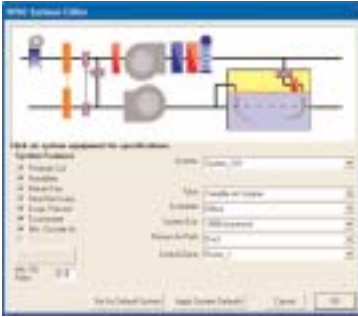
USER-FRIENDLY INTERFACE

The user interface facilitates user inputs, output processing, and report generation. The database contains schedules of architectural and mechanical elements, templates of HVAC system and central plant equipment and rules to create HVAC systems

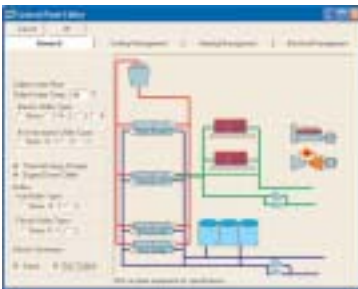
and central plant.

There are also features in VisualDOE that help the user diagnose simulation results, troubleshoot problems, convert weather files, and get software updates via the internet.

VISUALDOE 3.1



HVAC Editor - Click on images of system components to define properties.



Central Plant Editor - Options include air and water cooled chillers, absorption chillers, thermal energy storage and cogeneration.



Custom Block Editor - Import floor plans from DXF files produced in a CADD program.



3D View - Rotate and zoom to review model.

WHO'S USING VISUALDOE?

VisualDOE has more than one thousand licensed users in more than thirty five countries. The program is targeted for use by architects, engineers, MEP firms, energy consultants, utilities, national laboratories, universities, energy service companies, HVAC equipment manufacturers, and building product manufacturers.

ENERGY CONSERVATION MEASURES (ECMs)

A wide variety of ECMs can be studied with VisualDOE.

Envelope

Insulation for walls, roofs and floors, mass walls and roofs, cool roofs, exterior shades, coating on walls, building shape and orientation.

Windows and Skylights

Type of windows and skylights, interior and exterior window shades, window orientation, window area, skylight area.

Lighting and Daylighting

Lighting systems, lighting controls, daylighting controls, occupancy sensor.

HVAC System and Equipment

System type, economizer, fan efficiency and control, supply air temperature set point and control, demand control ventilation, heat recovery, zoning and reheat.

Central Plant

Chillers: types, sizing and selection, capacity control, staging, efficiency, CHW loop design and pumping control. Cooling Tower: efficiency, CWS setpoint, approach, CWS reset, capacity control. Boiler: efficiency, HW loop design and pumping control. Thermal Energy Storage system and Co-generation system.

SUPPORT OF VISUALDOE

- Technical support via phone call, email, web resource
- Complete PDF documentation of DOE-2 and VisualDOE
- Free online updates via the internet
- User newsletters with modeling tips and case studies
- Professional training seminars - check www.eley.com for dates and times

FREE DEMO AND MORE INFORMATION

Free demo version of VisualDOE is available at www.eley.com/gdt/visualdoe/vd_demo.htm.

More information at www.visualdoe.com.

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