



## Meetings, Conferences, Symposia and Workshops

2006		
January 8-11, 2006	IESNA Annual Conference Illuminating Engineering Society of North America	To be held in New York, NY • <a href="http://www.iesna.org">www.iesna.org</a>
January 19-20, 2006	Energy Efficient Technologies for Government Buildings—New and Retrofit	<a href="https://kd.erdc.usace.army.mil/projects/ecbcs/workshops/siw_chicago">https://kd.erdc.usace.army.mil/projects/ecbcs/workshops/siw_chicago</a>
January 21-26, 2006	ASHRAE Winter Meeting 	To be held in Chicago, IL • <a href="http://www.ashrae.org">www.ashrae.org</a>
March 19-21, 2006	10 <sup>th</sup> Annual Nat'l Symposium on Market Transformation	To be held in Washington, D.C. • <a href="http://www.aceee.org">www.aceee.org</a>
March 21-22, 2006	CIBSE National Conference	To be held in London • <a href="http://www.cibse.org">www.cibse.org</a>
March 30-April 3, 2006	Architectural Engineering National Conference	To be held in Omaha, NE • <a href="http://www.asce.org/conferences/aei06">www.asce.org/conferences/aei06</a>
April 19-21, 2006	National Conference on Building Commissioning	To be held in San Francisco • <a href="http://www.peci.org/">http://www.peci.org/</a>
April 23-27, 2006	Light+Building	To be held in Frankfurt, Germany. • <a href="http://www.light-building.messefrankfurt.com">www.light-building.messefrankfurt.com</a> .
May 17-19, 2006	International Conference on Air Conditioning & Ventilation	To be held in Prague • <a href="http://www.acv2006.cz">www.acv2006.cz</a>
May 21-24, 2006	5th International Conference HVAC+R Technologies	To be held in Istanbul • Contact <a href="mailto:ttmd@ttmd.org.tr">ttmd@ttmd.org.tr</a> or <a href="http://www.ttmd.org.tr">www.ttmd.org.tr</a>
May 31- June 2, 2006	International Conference on Thermal Energy Storage	To be held in Pomona, MJ • <a href="http://www.stockton.edu/ecostock">www.stockton.edu/ecostock</a>
June 4-8, 2006	Healthy Buildings 2006	To be held in Lisbon, Portugal • <a href="http://www.hb2006.org">www.hb2006.org</a> .
June 24-28, 2006	ASHRAE Annual Meeting 	To be held Quebec City, Canada • <a href="http://www.ashrae.org">www.ashrae.org</a>
July 08-13, 2006	SOLAR 2006	<a href="http://www.ases.org/">http://www.ases.org/</a>
August 2-4, 2006	SimBuild 2006 - IBPSA USA	The Massachusetts Institute of Technology • <a href="http://www.ibpsa.us/">http://www.ibpsa.us/</a>
August 13-18, 2006	ACEEE Summer Study on Energy Efficiency in Buildings	To be held in Pacific Grove, CA • <a href="http://www.aceee.org">www.aceee.org</a>

**2007**

January 27-31, 2007	ASHRAE Winter Meeting		To be held in Dallas, TX, • <a href="http://www.ashrae.org">www.ashrae.org</a>
June 23-27, 2007	ASHRAE Annual Meeting		To be held in Long Beach, CA, • <a href="http://www.ashrae.org">www.ashrae.org</a>
July 08-12, 2007	SOLAR 2007		To be held in Cleveland, OH, • <a href="http://www.ases.org/">http://www.ases.org/</a>
August 13-18, 2007	International Heat Transfer Conference		To be held in Sydney, Australia • <a href="http://www.ihtc-13.com">www.ihtc-13.com</a>

**2008**

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## Directory of Software and Services for EnergyPlus

Program Name	Description	Cost
EnergyPlus 1.2.3	Downloadable from  <a href="http://www.energyplus.gov">www.energyplus.gov/</a>	Free!
	<a href="mailto:EnergyPlus-Support@gard.com">Support</a> <a href="mailto:EnergyPlus-Support@gard.com">mailto:EnergyPlus-Support@gard.com</a>  <a href="http://groups.yahoo.com/group/EnergyPlus_Support">Support Group</a> <a href="http://groups.yahoo.com/group/EnergyPlus_Support">groups.yahoo.com/group/EnergyPlus_Support</a>	

## EnergyPlus Tools, Interfaces and Utilities

### Utilities – Included in EnergyPlus – For creating, editing, and running input files.

Tool	Description
IDF Editor	For users who want a simple way of creating or editing EnergyPlus input data files (IDF), IDF Editor provides this service. Any EnergyPlus object may be viewed and edited using a spreadsheet-like grid. For inputs with several options, a list is provided. When a numeric input has a range of valid values, those values are displayed. It also automatically provides a list of object names when an object needs to be linked to another. By displaying all objects of the same kind next to each other in a grid, it is easy to see how inputs are different across the building. The IDF Editor outputs an EnergyPlus input file with proper syntax and comments to help the user understand the input values. In addition, the IDF Editor converts standard inch-pound units into SI units compatible with EnergyPlus.
EP-Launch	provides a simpler alternative for running EnergyPlus than batch files. EP-Launch allows the user to select the input file directly or from a list of recent or sample files. It also allows easy selection for weather data files. After the EnergyPlus run completes, EP-Launch reports if any errors or warnings occurred. In addition, EP-Launch acts as a file manager for each run and can help open a text editor for any of the input and output files, opens spreadsheet for several results files, and starts up a viewer for the building drawing file.

### Third PartyTools – To create, edit, and display input files.

Vendor	Description
<b>Joe Huang and Associates</b> 31 Sarah Lane Moraga CA 94556-2563 Ph: (925) 247-9180	<b>DrawBDL+3.1</b> ( <a href="http://www.drawbdl.com">www.drawbdl.com</a> ) allows users to visually review the building geometry in both EnergyPlus and DOE-2 input files. DrawBDL can export the DOE-2 surface data in EnergyPlus IDF format; useful for those users who wish to convert their DOE-2 input files into EnergyPlus input files.

### Third PartyTools – To create, edit, and display input files (continued)

Vendor	Description
<p><b>The Deringer Group, Inc.</b>                      1250 Addison Street                      Berkeley, CA 94702                      Ph: (510) 843-9000                      Fx: (510) 843-9300</p>	<p><b>EnergyPlus Online Simulations</b> are online tools embedded in the Deringer Group's EcoAdvisor, a set of training modules on sustainable buildings. These tools can be used by anyone and require no special knowledge of EnergyPlus.</p> <p><b>EnergyPlus Interface Support Tools</b>                      This set of stand-alone Windows-based tools is intended to make the text-based use of EnergyPlus faster, easier, and more accurate. The tools assume that the user is somewhat familiar with typical text-based interfaces for energy simulations. So far there are two proof-of-concept tools.</p> <p><a href="#">DrawEzPlus</a> is a 3-D geometry rendering tool that displays the geometry imbedded in an EnergyPlus file. Users can toggle between line and surface (fill) presentation modes, and can select to draw any mix of key building objects — floor, walls, roof, windows, and attached and detached shading.</p> <p><a href="#">EzPlus-Parm</a> simplifies running multiple parametric EnergyPlus simulations. EzPlus-Parm helps a user to organize and edit all needed files. Their EcoAdvisor product also uses EnergyPlus to perform web-based building energy simulations.</p>
<p><b>GeoPraxis, Inc.</b>                      205 Keller Street, Suite 202                      Petaluma, California 94952                      Ph: (707) 766-7010 Voice                      Fx: (707) 766-7014 Fax</p>	<p><a href="#">Green Building Studio</a> is a web-based service provided by GeoPraxis, Inc . which gives 3D-CAD users quick, reliable, and free estimates of a building's energy costs during the early stages of conceptual design. Green Building Studio is powered by GeoPraxis' IDEA Server building energy simulation management software that incorporates DOE-2 and EnergyPlus into this solution. Key to the integrated interoperability exhibited in GBS-compliant 3D-CAD applications is the Green Building XML schema (gbXML), an open XML schema of the International Alliance of Interoperability's aecXML Group. Green Building Studio creates an EnergyPlus IDF file.</p>
<p><b>Taylor Systems Engineering, Inc.</b>                      9801 Fair Oaks Blvd., Suite 100                      Fair Oaks, CA. 95628                      Ph: (916) 961-3400                      Fx: (916) 961-3410</p>	<p><a href="#">TSe+</a>, the first of a suite of tools to manage data for EnergyPlus is now available free of charge from Taylor Systems Engineering. TSe+Mat provides an interface to the materials datasets that come bundled with EnergyPlus and allows the user to add them to a personal database to maintain and modify for later use. Future tools under development include TSe+MatGlz (for materials and glazings) and TSe+Con (for constructions).</p>

### Creating EnergyPlus input files

Vendor	Description
<p><b>Square One Research</b>                      Centre for Research in the Built Environment, Bute Building                      King Edward VII Avenue                      CARDIFF, CF10 3NB - Wales                      United Kingdom</p>	<p><a href="#">ECOTECT</a> from Square One couples an intuitive 3D design interface with a comprehensive set of performance analysis functions (visualization, solar and daylighting analysis, shadows and shading, lighting design, thermal performance, UK building regulations, ventilation, and acoustic analysis) with interactive information displays. It also can export an EnergyPlus IDF file.</p> <p>For more details, click <a href="#">here</a> for an article from the Building Energy Simulation User News.</p>

## Creating EnergyPlus input files (continued)

Vendor	Description
<b>NaturalWorks</b> Paul F. Linden (San Diego, CA) <a href="mailto:pfl@natural-works.com">pfl@natural-works.com</a> Guilherme Carrilho da Graça (Lisbon, Portugal) <a href="mailto:gcg@natural-works.com">gcg@natural-works.com</a>	<b>EP_GEO and EP_SYS</b> NaturalWorks has developed two spreadsheet-based interfaces that can complement the simple interface tools that are included in the standard EnergyPlus installation. <b>EP_GEO</b> (building geometry) - A spreadsheet that uses a set of simple macros to create rectangular building geometry, windows, shading, infiltration, internal gains and temperature control (using 'purchased air'). Rectangular zones can be automatically created in an idf file by simply entering zone height, width and length. An offset in zone origin can be used to insert multiple zones in an existing file. <b>EP_SYS</b> (systems) - This spreadsheet allows for creation of Purchased Air, Fan Coil And Variable air Volume systems in a large number of zones. The list of zones in an existing IDF file can be automatically imported and individual zones selected for insertion of one of the three basic types of systems available in the tool.
<b>EP-QUICK</b> Jason Glazer, Glazer Software <a href="http://www.glazersoftware.com">www.glazersoftware.com</a>	EP-Quick is an easy-to-use program that creates an EnergyPlus input file for a building, without HVAC, using simple templates for the shape and zone layout. EP-Quick is not a full interface for EnergyPlus but simply a way to generate input files quickly.
<b>ESP-r</b>	In keeping with the philosophy of linking the <a href="#">ESP-r simulation suite</a> to other modelling systems, users can now export to EnergyPlus an ESP-r model with materials, constructions, surfaces (all three and four sided surfaces as well as those including one window or one door - more complex surfaces are currently filtered out) and solar shading devices. Boundary condition attributes are translated and the parent/child relationship between opaque and transparent surfaces established. The exported models usually pass the EnergyPlus parser with no errors or with minor warnings. Currently, approximate optical properties are established and schedules are not yet included. We anticipate updating the geometric filters to match the current EnergyPlus release as well as including casual gain schedules in the near future. Those wishing more information about ESP-r or to download the standard distribution can go to <a href="http://www.esru.strath.ac.uk/Programs/ESP-r.htm">www.esru.strath.ac.uk/Programs/ESP-r.htm</a> Those wishing more information about the capabilities of ESP-r can go to <a href="http://www.esru.strath.ac.uk/Programs/ESP-r_capabilities/index.html">www.esru.strath.ac.uk/Programs/ESP-r_capabilities/index.html</a>

## Interfaces for EnergyPlus

Vendor	Description
<b>DesignBuilder Software, Ltd.</b> Palace Chambers 41 London Road, Stroud Gloucestershire, GL5 2AJ UK <a href="http://www.designbuilder.co.uk/">www.designbuilder.co.uk/</a>	<b>DesignBuilder</b> provides a range of environmental performance data such as: annual energy consumption, maximum summertime temperatures and detailed feedback on temperatures and heat flows in the building. <b>DesignBuilder</b> provides an interface to the latest EnergyPlus version for envelope, solar, ventilation and daylighting capabilities as well as heating and cooling load modeling. The software comes with summer and winter design data for 1439 worldwide locations and has access to more than 500 hourly simulation weather files.

## Interfaces for EnergyPlus (continued)

Vendor	Description
<b>E2AC</b>	<p><b>E2AC — A Brazilian interface for the EnergyPlus program</b></p> <p>E2AC is a simplified interface for the EnergyPlus program which allows the simulation of 'shoe box' models with or without air conditioning systems. The interface is under development by the LabEEE team (Energy Efficiency in Buildings Laboratory) at Federal University of Santa Catarina, Brazil. The current version (2.0 beta) is the first to be publicly available. Currently available only in Portuguese, it was developed to promote the use of EnergyPlus in Brazil. (An English version is under development.)</p> <p>E2AC has a library with typical Brazilian constructions and materials, and a template of a direct expansion air conditioner system (window mounted system). E2AC currently comes with hourly weather files and design days for 14 Brazilian cities. Through this interface, the user can simulate — in a few minutes — a single zone model and tests the effect of alternatives for envelope, internal loads density, schedules, set-point temperatures, and system capacities and efficiencies. E2AC allows the user to save several alternatives of a model in a single data file. Each alternative can be simulated directly from the interface. E2AC generates the EnergyPlus input data file (IDF) and executes EnergyPlus.</p> <p>NOTE: In order to run the simulation from the interface, it is necessary to install the current version of EnergyPlus on the user's computer. Output reports can be visualized through graphs plotted by the program. As this is a beta version, it will be expected that some bugs may be detected in the interface. Any problem or question can be reported to the LabEEE through e-mail.</p> <p>The program is under development and new features will be implemented soon, such as multi-zone and multi-floor building modeling. Website of the program: <a href="http://www.labeee.ufsc.br/edois/e2ac.html">http://www.labeee.ufsc.br/edois/e2ac.html</a></p>
<b>E+IEQ</b>	<p><a href="#">E+IEQ</a>, being developed by Taitem Engineering, focuses on the energy and indoor environmental quality tradeoffs of building design. E+IEQ will feature 'smart defaults', wizards and customizable component libraries to speed data entry. Interface capabilities are planned to be gradually expanded to cover the broader scope of EnergyPlus. A first E+IEQ beta version is planned in 2005. If interested in being notified when the beta version becomes available, please send email to <a href="mailto:EPlusIEQ@taitem.com">EPlusIEQ@taitem.com</a>.</p>
<b>E-FEN</b>	<p><a href="#">EFEN</a> is an energy simulation program designed for analyzing energy impacts and cost effectiveness of fenestration systems in various commercial and high-rise residential buildings. The program incorporates a user-friendly graphical user interface (GUI) and enables quick and effective parametric analysis of different fenestration systems. EFEN utilizes the EnergyPlus simulation engine to perform building energy consumption analysis. The main feature of the program is that it incorporates several pre-defined default commercial building types with typical construction, interior loads, operating schedules, and HVAC system configurations, such that users can quickly develop an energy models of a building.</p>
<b>EPlusInterface</b> <a href="#">Contact Santosh Philip</a>	<p><b>EPlusInterface</b> is an open source initiative to develop a comprehensive interface for EnergyPlus. The code is <b>free</b> for anyone to use. The license is GPL. Modules currently under development are listed below; a few are ready to use. For latest downloads and status check <a href="http://www.coolshadow.com/EPlusInterface/">http://www.coolshadow.com/EPlusInterface/</a></p>

## **Building Geometry – Translate building geometry from CAD into EnergyPlus IDF Input**

<b>Vendor</b>	<b>Description</b>
<b>IDFtoIFC</b> <a href="http://www.eere.energy.gov/buildings/energyplus/ifc.html">http://www.eere.energy.gov/buildings/energyplus/ifc.html</a>	Please note that the IFCToIDF utility is still in beta testing. This utility, along with the BPro COM-Server and several other software tools have been officially certified by the IAI as being compliant with IFC Releases 1.5.1 and 2.0 and are in the process of certification for Release IFC 2x. However, this does not mean that the utility is capable of seamlessly importing all data required for an EnergyPlus simulation from an IFC data file. The utility focuses on geometry only at this point. For example, construction material characteristics are currently defaulted in the resulting IDF. These data are not imported from an IFC data file simply because there is not yet an IFC-compliant tool that provides a user interface for inputting material characteristics. Furthermore, interoperability based on the object-oriented IFC standard is still a relatively new technology. Even the seemingly simple exchange of geometry representing objects such as a space and the parts of walls, floors and ceilings that bound this space can result in misunderstandings between different tools. More experience in exchanging data between a wide variety of software tools is required before this technology matures to a stage of full and foolproof functionality.

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<b>Tom McDougall</b>	The Weidt Group <a href="http://www.twgi.com">www.twgi.com</a>	5800 Baker Road	Minnetonka, MN 55345	(952) 938-1588 fax: 938-1480
<b>New York</b>				
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<b>Neville Burrows, P.E., LEED</b>	EME Group <a href="http://www.emegroup.com">www.emegroup.com</a>	159 West 25 <sup>th</sup> Street, 5 <sup>th</sup> Floor	New York, NY 10001	(212) 529-5969 Fax: 529-6023
<b>North Carolina</b>				
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<b>Hank Jackson, P.E.</b>	ETech Solutions	P.O. Box 2355	Weaverville, NC 28787	(336) 691-0785
<b>Ohio</b>				
<b>Zachary M. Albright</b>	Jacco			
<b>Virginia</b>				
<b>John R. Ross III, P.E.</b>	Westwind Corporation	1609 Sereno Court	Vienna, VA 22182-1958	(703) 255-4712 fax: 255-4712

## Directory of Software and Services for DOE-2

### ESTSC Versions of DOE-2

Program Name and Vendor	Description	Cost																				
<b>DOE-2.1E (Ed Kidd, Kim Buckner)</b> estsc@adonis.osti.gov <b>ESTSC</b> P.O. Box 1020 Oak Ridge, TN 37831-1020 Ph: 865-576-2606 / Fx: 576-2865 www.osti.gov/estsc	Source code, executable code and complete current documentation for: DOE-2.1E/Version 121 (1000-zone version for Windows and LINUX) OS: Windows, SUN UNIX/LINUX	<table border="0"> <tr> <td colspan="2"><u>Support</u></td> <td colspan="2"><b>Windows</b></td> </tr> <tr> <td colspan="2">Limited operational support (telephone assistance for installation, media or platform questions).</td> <td>U.S. Govt/Non-Profit/Educ</td> <td>\$ 300</td> </tr> <tr> <td colspan="2"></td> <td>U.S. Public, Mexico, Canada</td> <td>\$ 575</td> </tr> <tr> <td colspan="2"></td> <td>Japan</td> <td>\$1268</td> </tr> <tr> <td colspan="2"></td> <td>Other Foreign</td> <td>\$1075</td> </tr> </table>	<u>Support</u>		<b>Windows</b>		Limited operational support (telephone assistance for installation, media or platform questions).		U.S. Govt/Non-Profit/Educ	\$ 300			U.S. Public, Mexico, Canada	\$ 575			Japan	\$1268			Other Foreign	\$1075
<u>Support</u>		<b>Windows</b>																				
Limited operational support (telephone assistance for installation, media or platform questions).		U.S. Govt/Non-Profit/Educ	\$ 300																			
		U.S. Public, Mexico, Canada	\$ 575																			
		Japan	\$1268																			
		Other Foreign	\$1075																			

### Commercial Versions of DOE-2

Program Name and Vendor	Description	Cost				
<b>ADM-DOE-2 (Richard Burkhart)</b> ADM Associates 3239 Ramos Circle Sacramento, CA 95827-2501 Ph: 916-363-8383 / Fx: 363-1788 www.adm-energy.com/	Use on 386/486 PCs with a math co-processor and 4MB of RAM. The package contains everything needed to run the program: program files, utilities, sample input files, and weather files. More than 300 weather files available. OS: DOS, Windows 95	<table border="0"> <tr> <td><u>Input</u></td> <td rowspan="3">\$395 + \$15/SH including one set weather data (your choice) and documentation</td> </tr> <tr> <td><u>Output</u></td> </tr> <tr> <td><u>Support</u></td> </tr> </table>	<u>Input</u>	\$395 + \$15/SH including one set weather data (your choice) and documentation	<u>Output</u>	<u>Support</u>
<u>Input</u>	\$395 + \$15/SH including one set weather data (your choice) and documentation					
<u>Output</u>						
<u>Support</u>						
<b>Compare-IT (Matt Brost)</b> RLW Analytics, Inc. info@rlw.com 1055 Broadway, Suite G Sonoma, CA 95476 Ph: 707-939-8823 / Fx: 939-9218 www.rlw.com	Compare-IT allows DOE-2 professionals to add value to their projects by giving clients "what-if" scenarios using DOE-2. The interface is designed for novice energy analysts and the GUI can be customized for each client's particular interests. Based DOE-2.1E. OS: DOS, Windows (98, 95, NT)	<table border="0"> <tr> <td><u>Input</u>: Customizable windows GUI dynamically built based on DOE-2 macros.</td> <td>\$500 consultant \$2000 client</td> </tr> <tr> <td><u>Output</u> <u>Support</u></td> <td>Documentation available</td> </tr> </table>	<u>Input</u> : Customizable windows GUI dynamically built based on DOE-2 macros.	\$500 consultant \$2000 client	<u>Output</u> <u>Support</u>	Documentation available
<u>Input</u> : Customizable windows GUI dynamically built based on DOE-2 macros.	\$500 consultant \$2000 client					
<u>Output</u> <u>Support</u>	Documentation available					

Note: We list third-party DOE-2-related products and services for the convenience of program users, with the understanding that the Simulation Research Group does not have the resources to check the DOE-2 program adaptations and utilities for accuracy or reliability.

Commercial Versions of DOE-2 (continued)

Program Name and Vendor	Description	Input	Output	Support	Cost
<b>EnergyPro 3.0</b> <b>(D. Vonderkullen)</b>  EnergySoft LLC 1025-5 <sup>th</sup> Street, Suite A Novato, CA 94945 Ph: 415.897.6400 / Fx: 897-6422	Nonresidential load calculations for HVAC equipment sizing. Exports forms to AutoCad for inclusion on blueprints. On-line help. 344 weather files for the U.S. and Canada. OS: DOS, Windows (95, NT). <b>For California Users:</b> Performs Title 24 compliance calculations; state-certified HVAC and DHW Equipment directories, Title 24 lighting calculations. Based on DOE-2.1E	<u>Input:</u> Graphical	<u>Output:</u> Graphs, forms	<u>Support:</u> Unlimited support	DOE-2 Module: Non-residential \$ 700 <sup>1,2</sup> Residential \$ 250 <sup>1,2</sup> Program Interface \$ 195 <sup>3</sup> <sup>1</sup> price reflects cash discount <sup>2</sup> includes documentation <sup>3</sup> required
<b>EZDOE</b> <b>(Bill Smith)</b>  Elite Software P.O. Box 1194 Bryan, TX 77806 Ph: 409-846-2340 / Fx: 846-4367	Provides full screen, fill-in-the-blank data entry, dynamic error checking, context-sensitive help, mouse support, graphic reports, a 750-page user manual, and extensive weather data. Full implementation of DOE-2 on DOS-based 386 and higher computers. On-line help. Some weather files. Based on DOE-2.1E. DOS	<u>Input:</u> Fill-in-the-blanks	<u>Output:</u> Standard DOE reports plus some custom graphic reports	<u>Support:</u> Unlimited phone support	\$1295 w/documentation  Source code not available.
<b>FTI/DOE2</b> <b>(Scott Henderson)</b>  Finite Technologies Inc. 3763 Image Drive Anchorage, Alaska 99504 Ph: 907-333-8937 / Fx: 333-4482	Version 3.0 Release -- FTI/DOE is 100% compatible with LBNL version. Source code versions will compile with most F77-compliant compilers. On-line help: 344 weather files for the U.S. and Canada. Based on ESTSC DOE-2.1E. No demo, 30-day trial period OS: DOS, Windows (3.x, 95, NT) AIX, ULTRIX, VMS, Linux, NeXTStep,	<u>Input:</u> Version 2.x: text based Version 3.x: graphical	<u>Output:</u> All standard DOE-2 reports Run time and status graphics	<u>Support:</u> 90-days free; then cost is \$ 35 each email per incident \$ 55 per hour per incident \$125 per hour for engineering advice.	\$ 995.99 US w/documentation \$1066 Int'l w/documentation \$4999.99 Source code
<b>VisualDOE 4.0</b> <b>(Eric Kolderup)</b>  Architectural Energy Corporation 142 Minna Street (2 <sup>nd</sup> floor) San Francisco, CA 94105 Ph: 415-957-1977 / Fax 1381	Fast construction of building geometry with pre-defined blocks and drawing interface. Import zone shapes from CADD file (dxf). Point+click to define zone properties and HVAC systems. Dynamic 3-D model views. Online help. LiveUpdate through internet. 400+ US, foreign weather files. OS: Windows 95/98/NT/ME/2000/XP	<u>Input:</u> Graphical	<u>Output:</u> Graphical	<u>Support:</u> 90 days free phone plus 1 year email support.; thereafter \$300/year per licensed user	\$800 new commercial license \$400 commercial upgrade from version 2.6 60% discount for educational use \$3000 Site license (up to 8 registration keys) \$8000 corporate license (up to 15 registration keys)

## Support Tools for DOE-2

Program Name and Vendor	Description	Cost
<b>DOE-2 Parametric Study Tool</b> <b>The Deringer Group, Inc.</b> 1250 Addison Street Berkeley, CA 94702 Ph: (510) 843-9000, Fx: 843-9300	DOE2PARM – is an MS Windows-based tool that permits you to run, edit and link all the related input and output files together in the same window.	<i>Free!</i>
<b>DoeRayMe (Jason Glazer, P.E.)</b> GARD Analytics 1028 Busse Highway Park Ridge, Illinois 60068-1802 Ph: 847-698-5690	DoeRayMe is a simple and flexible user interface for DOE-2 “screening tool” applications. DoeRayMe uses a specially developed DOE-2 input template to change the user interface. This allows new “screening tools” to be developed by anyone with DOE-2 knowledge.	
<b>DrawBDL (Joe Huang)</b> <b>Joe Huang &amp; Associates</b> 31 Sarah Lane Moraga CA 94556-2563 Ph: 925-247-9180	DrawBDL, Version 3.0, is a graphic debugging and drawing tool for DOE-2 building geometry. DrawBDL reads your BDL input and makes a rotate-able 3-D drawing of your building with walls, windows, and building shades shown in different colors for easy identification. OS: DOS, Windows (3.1, 95, 98, NT) [Works with 2.1E] email: joe@drawbdl.com	\$125.00 plus shipping
<b>GeoPraxis, Inc.</b> 205 Keller Street, Suite 202 Petaluma, California 94952 Ph: 707-766-7010 Voice Fx: 707-766-7014	Green Building Studio is a web-based service provided by GeoPraxis, Inc. It gives 3-D CAD users quick, reliable, and free estimates of a building's energy costs during the early stages of conceptual design using DOE-2. Green Building Studio is powered by GeoPraxis' IDEA Server building energy simulation management software that uses DOE-2 as its simulation engine. Key to the integrated interoperability exhibited in GBS-compliant 3-D CAD applications is the Green Building XML schema (gbXML).	Call for pricing
<b>PRC-DOE-2 (Paul Reeves)</b> <b>Partnership for Resource Conservation</b> 140 South 34 <sup>th</sup> Street Boulder, CO 80303 Ph: 303-499-8611, Fx: 554-1370	PRC-Tools aid in extracting, analyzing, and formatting DOE-2 output. PRC-Grab automates the process of extracting any number of answers from DOE-2 standard output files. PRC-Hour and PRC-Peak format the hourly output and create Peak-Day and Average-Day load shapes for any number of periods and for any combination of hourly values. OS: Windows (95, 98, NT) [Works with 2.1E]	\$99.00
<b>RIUSKA (Tuomas Laine)</b> <b>Olof Granlund Oy</b> P O Box 59 Helsinki, FIN-00701 Finland Ph: +358 (9) 351031 / Fx: 35103421	With RIUSKA user can add building envelope materials, internal loads and HVAC-system into the created 3D-model of the building and perform thermal calculations. RIUSKA can be used for space simulations to dimension cooling or heating equipments, or for energy calculations of the whole building. OS: Windows (95, 98, NT) [Works with 2.1E]	Contact Tuomas Laine for pricing.

### Support Tools for DOE-2 (continued)

Program Name and Vendor	Description	Cost
<b>Visualize-IT (Matt Brost)</b> <b>RLW Analytics, Inc.</b> 1055 Broadway, Suite G Sonoma, CA 95476 Ph: 800-472-6716 Fx: 707-939-8823	Visualize-IT 2.0 is a Windows application designed to help you explore and summarize short-interval time series data, e.g., measurements taken once every 15 minutes over a period of weeks, months or years. Visualize-IT has been developed specifically for electric and gas load data measuring class profiles, market-segments, individual customer sites or specific end uses. Customized DOE2.1e hourly output importer. Visualize-IT is highly useful and informative for looking at DOE2 output and/or comparing to interval metered data. It is equally useful for other time series measurements such as weather, industrial process control, and water quality. OS: Windows 95, 98 and NT	\$500.00 per set Volume Discounts Available

### Special Versions of DOE-2

Program Name and Vendor	Description	Cost
<b>Building Energy Analyzer</b> InterEnergy Software 1700 South Mount Prospect Road Des Plaines, IL 60018 support@interenergysoftware.com www.interenergysoftware.com	InterEnergy Software, Inc. was established in 1998 by the Gas Research Institute and the Institute of Gas Technology to develop and market software for the energy industry. <u>Building Energy Analyzer</u> - Easy to use software provides quick economic analysis for commercial and industrial building; allows users to compare energy options and to estimate energy loads and costs. <u>BinMaker PRO</u> - Weather data for engineering. <u>DesiCalc</u> - Software for screening desiccant dehumidification/cooling applications; allows users to easily run hour-by-hour simulations to compare the energy needs and costs of using desiccant-based equipment with those of competing electric air-conditioning equipment.	see website for prices
<b>CBIP</b> cbip.nrcan.gc.ca/cbip.htm Natural Resources Canada 580 Booth St., 18th Floor Ottawa ON K1A 0E4, CANADA	Natural Resources Canada's Commercial Building Incentive Program (CBIP) offers a financial incentive for the incorporation of energy efficiency features in new commercial and institutional building designs. The objective of this new incentive is to encourage energy-efficient design practices and to bring about lasting changes in the Canadian building design and construction industry.	Web Based (free)
<b>Cool Tools (Peter Turnbull)</b> Pacific Gas & Electric Company pwt1@pge.com www.hvacexchange.com/cooltools/	The CoolTools™ project objective is to develop, disseminate and promote an integrated set of tools for design and operation of chilled water plants. CoolTools products are Internet based, public domain resources available to building owners, design professionals, and operators involved in both new construction and retrofits.	Web Based (free)

**Special Versions of DOE-2 (continued)**

<b>Program Name and Vendor</b>	<b>Description</b>	<b>Cost</b>
<b>Energy Gauge USA (Danny Parker)</b> Florida Solar Energy Center 1679 Clearlake Road Cocoa, FL 32922	<i>Energy Gauge USA</i> allows the simple calculation and rating of residential building energy use in the US. The simulation calculates a six-zone model of the residence (conditioned zone, attic, crawlspace, basement, garage and sunspace) with the various buffered spaces linked to the interior as appropriate. TMY weather data for the program are available for 239 US locations.	Contact Danny Parker at FSEC for availability.
<b>Home Energy Saver (Residential DOE-2)</b> hes.lbl.gov	Calculation of residential energy consumption using DOE-2.1E. In 10-20 seconds, the program performs a full annual simulation for a typical weather year (involving 8760 hourly calculations) from 239 locations around the United States.	Web Based (free)
<b>PERFORM 2001</b> California Energy Commission 1516-9 <sup>th</sup> St., MS-13 Sacramento, CA 95814 Ph: 916-654-5385	Created for the State of California Energy Commission's, Title 24 energy code. Perform 2001 is an interface shell with DOE-2 as the engine. PERFORM 2001 calculates building energy consumption for space heating, space cooling and domestic hot water heating, and compares the energy consumption of the building design against the requirements of the standards. DOS input. Output is only California Title 24 compliant. [Based on DOE-2.1E] Technical support \$100/year from Gabel-Dodd Energy Soft LLC, Call 415-883-5900 for details.	\$250 including PERFORM 2001 program and manual on CD. (VISA/MC) Order #PS-400-04-017 <a href="http://www.energy.ca.gov/reports/reports_400.html">www.energy.ca.gov/reports/reports_400.html</a>
<b>RESFEN-3.1</b> Building Technologies, MS 90-3111 Lawrence Berkeley Laboratory Berkeley, CA 94720	RESFEN calculates the energy and cost implications of a building's windows and insulated walls. Also compares the relative energy and cost impacts of two different windows. RESFEN calculates the heating and cooling energy use and associated costs, also the peak heating and cooling demand for specific window products. [Based on DOE-2.1E] OS: Windows 95, 98, NT	Free! Download
<b>TEXAS EMISSIONS REDUCTION CALCULATOR</b> Texas A&M University	The Texas Emissions Reduction Calculator was created to provide Texans with an accurate, easy-to-use tool for calculating the emission reduction credits attributable to a single-family residence.	

## INTERNATIONAL DOE-2 RESOURCE CENTERS

The people listed here have agreed to be primary contacts for DOE-2 program users in their respective countries. Each resource center has the latest program documentation, all back issues of the User News, and recent LBNL reports pertaining to DOE-2. Users may make arrangements to photocopy the new material for a nominal cost. We hope to establish centers in other countries; please contact us if you want to establish a center in your area.

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