

Meetings, Conferences, Symposia

2004

January 24-28 2004

ASHRAE Winter Meeting



To be held in Anaheim, CA • www.ashrae.org

February 7-11, 2004

CTI Annual Conference



To be held in Houston, TX • www.cti.org.

February 18-21 2004

ACREX 2004: International Exposition on Air Conditioning, Refrigeration and Allied Industries

To be held in Mumbai, India
www.acrex.org.in.



March 2004

RAHV 2004: The 2nd Guangzhou International Exhibition On Refrigeration, Air-Conditioning Industries

To be held in Guangzhou, China • <http://www.toprepute.com.hk/>

May 2-7, 2004

CIB World Building Congress 2004

To be held in Toronto, Canada • <http://www.cib2004.ca/>

May 3-5 2004

International HVAC+R Technology Symposium and Exhibition



To be held in Istanbul, Turkey • www.ttmd.org.tr

June 9-11, 2004

eSim 2004:
The Canadian Conference on Building Energy Simulation



To be held in Vancouver, BC, Canada
http://www.esim.ca/2004/English/about_esim.htm

June 21-24, 2004

HEFAT2004: Third International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics

To be held in Cape Town, South Africa • www.hefat.com



2004 (continued)

June 26-30 2004

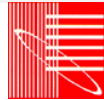
ASHRAE Annual Meeting



To be held at Opryland in Nashville, TN • www.ashrae.org

August 4-6, 2004

SimBild 2004
IBPSA-USA
First National Conference



To be held in Boulder, CO • <http://www.ibpsa.org/>

December 5-10, 2004

Performance of the Exterior
Envelopes of Whole Buildings
IX International Conference



To be held in Clearwater Beach, FL • www.ornl.gov/buildings/

2005

February 5-9, 2005

ASHRAE Winter Meeting



To be held in Orlando, FL • www.ashrae.org

June 25-29, 2005

ASHRAE Annual Meeting



To be held in Denver, CO • www.ashrae.org

August 15, 2005

IBPSA's BS 2005



To be held in Montreal, Canada • <http://www.ibpsa.org/>

2006

January 21-25, 2006

ASHRAE Winter Meeting



To be held in Chicago, IL • www.ashrae.org

June 24-28, 2006

ASHRAE Annual Meeting



To be held Quebec City, Canada • www.ashrae.org

Directory of Software and Services for EnergyPlus

Program Name	Description	Cost
EnergyPlus 1.1.1	Downloadable from www.energyplus.gov/	<i>Free!</i>

[Support
mailto:EnergyPlus-Support@gard.com](mailto:EnergyPlus-Support@gard.com)

[Support Group
groups.yahoo.com/group/EnergyPlus_Support](http://groups.yahoo.com/group/EnergyPlus_Support)

Support Tools for EnergyPlus

Vendor	Description	Cost
<p>The Deringer Group, Inc. 1349 Addison Street Berkeley, CA 94702 Tel: (510) 843-9000 Fax: (510) 843-9005 www.deringergroup.com/</p>	<p>EnergyPlus Online Simulations – online and embedded in the EcoAdvisor set of online training modules on sustainable buildings. These tools can be used by anyone and require no special knowledge of EnergyPlus.</p> <p><u>EnergyPlus Interface Support Tools</u> EzPlus-Parm is a standalone Windows tool intended primarily for EnergyPlus parametric analysis. It was designed to simplify the running of multiple parametric EnergyPlus simulations and helps a user organize and edit files. DrawEzPlus 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>	<i>Free!</i>
<p>DesignBuilder Software, Ltd. Palace Chambers 41 London Road Stroud Gloucestershire, GL5 2AJ UK www.designbuilder.co.uk/</p>	<p>DesignBuilder 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. DesignBuilder 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.</p>	<i>See website</i>

Support Tools for EnergyPlus (Continued)

Vendor	Description	Cost
<p>SQUARE ONE Research</p> <p>Centre for Research in the Built Environment, Bute Building, King Edward VII Avenue CARDIFF, CF10 3NB Wales United Kingdom</p> <p>www.squ1.com/</p>	<p>ECOTECT 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><i>See website</i></p>
<p>Taylor Systems Engineering</p> <p>Suite 100 9801 Fair Oaks Boulevard Fair Oaks, CA. 95628</p> <p>Phone: (916) 961-3400 Fax: (916) 961-3410</p> <p>www.tse-inc.net/</p>	<p>TSe+ is a suite of applications to enhance the data management for EnergyPlus users. The various modules aid the specific groups of data required in EnergyPlus. TSe+ is still an Alpha (pre-release) version in its development stage and the modules are being provided to users to assess the usability and functionality of the program for further development. Your effort to provide feedback and comments will be greatly appreciated and will benefit the tool development. The TSe+ modules are provided totally free of cost.</p> <p>TSe+Mat (materials library) is the first module of TSe+ module (Aug 2003). This is a module which enables the users to manage their frequently used material inputs for EnergyPlus data through adding, editing and manipulating, new and existing material DataSets from EnergyPlus and export them in the required IDF format.</p> <p>TSe+Glz (glazing library) is the second module of the TSe+ suite. It is also an alpha release (Sept 2003). TSe+Glz allows the capability of creation, editing and management of window glazing, gas, shade and blind materials and construction.</p>	<p><i>Free!</i></p>

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Directory of Software and Services for DOE-2

ESTSC Versions of DOE-2

Program Name and Vendor	Description	Cost														
DOE-2.1E (Ed Kidd, Kim Buckner) estsc@adonis.osti.gov ESTSC 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 117 1000-zone version OS: Windows, SUN UNIX	<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Support</td> </tr> <tr> <td style="padding: 2px;">Limited operational support (telephone assistance for installation, media or platform questions).</td> <td style="width: 50px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">Windows</td> </tr> <tr> <td style="padding: 2px;">U.S. Govt/Non-Profit/Educ</td> <td style="text-align: right; padding: 2px;">\$ 300</td> </tr> <tr> <td style="padding: 2px;">U.S. Public, Mexico, Canada</td> <td style="text-align: right; padding: 2px;">\$ 575</td> </tr> <tr> <td style="padding: 2px;">Japan</td> <td style="text-align: right; padding: 2px;">\$1268</td> </tr> <tr> <td style="padding: 2px;">Other Foreign</td> <td style="text-align: right; padding: 2px;">\$1075</td> </tr> </table>	Support		Limited operational support (telephone assistance for installation, media or platform questions).		Windows		U.S. Govt/Non-Profit/Educ	\$ 300	U.S. Public, Mexico, Canada	\$ 575	Japan	\$1268	Other Foreign	\$1075
Support																
Limited operational support (telephone assistance for installation, media or platform questions).																
Windows																
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				
ADM-DOE-2 (Richard Burkhart) 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 style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><u>Input</u></td> <td rowspan="3" style="vertical-align: top; padding: 2px;">\$395 + \$15/SH including one set weather data (your choice) and documentation</td> </tr> <tr> <td style="padding: 2px;"><u>Output</u></td> </tr> <tr> <td style="padding: 2px;"><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>						
Compare-IT (Matt Brost) 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 style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><u>Input</u>: Customizable windows GUI dynamically built based on DOE-2 macros.</td> <td style="vertical-align: top; padding: 2px;">\$500 consultant \$2000 client</td> </tr> <tr> <td style="padding: 2px;"><u>Output</u> <u>Support</u></td> <td style="vertical-align: top; padding: 2px;">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					
DOE-Plus (Steve Byrne) Item Systems info@item.com 8121 – 188 th St. SW. Edmonds, WA 98026 Ph: 425-640-3210 www.item.com/doeplus.htm	Complete support for all DOE-2 commands. Utility programs included: Prep, Demand Analyzer, weather processor. Over 500 worldwide weather files. Imports BDL files created with a text editor or other program. Based on DOE-2.1E. OS: DOS, Windows (3.1, 95, NT)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><u>Input</u> Interactive, graphical, fill-in-the-blanks</td> <td style="vertical-align: top; padding: 2px;">\$895 with DOE-2 and doc \$495 without DOE-2</td> </tr> <tr> <td style="padding: 2px;"><u>Output</u> Customizable tables and graphics</td> <td style="vertical-align: top; padding: 2px;">Source code not available.</td> </tr> </table>	<u>Input</u> Interactive, graphical, fill-in-the-blanks	\$895 with DOE-2 and doc \$495 without DOE-2	<u>Output</u> Customizable tables and graphics	Source code not available.
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<u>Output</u> Customizable tables and graphics	Source code not 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	Cost
EnergyPro 3.0 (D. Vonderkullen) Gabel Dodd/EnergySoft LLC 100 Galli Drive #1 Novato, CA 94949-5657 Ph: 415-883-5900, Fx: 883-5970	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). For California Users: Performs Title 24 compliance calculations; state-certified HVAC and DHW Equipment directories, Title 24 lighting calculations. Based on DOE-2.1E	DOE-2 Module: Non-residential \$ 700 ^{1,2} Residential \$ 250 ^{1,2} Program Interface \$ 195 ³ ¹ price reflects cash discount ² includes documentation ³ required
EZDOE (Bill Smith) 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	\$1295 w/documentation Source code not available.
FTI/DOE2 (Scott Henderson) 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,	\$ 995.99 US w/documentation \$1066 Int'l w/documentation \$4999.99 Source code \$ 35 each email per incident \$ 55 per hour per incident \$125 per hour for engineering advice.
PRC-DOE-2 (Paul Reeves) Partnership for Resource Conservation 140 South 34 th Street Boulder, CO 80303 Ph: 303-499-8611, Fx: 554-1370	Text-based version of DOE-2 includes documentation. Extensive information on new features, including information on new system types, new commands, new options, etc., added to later versions of 2.1E. OS: DOS, Windows (95, NT)	\$ 495 w/documentation Source code not available.
VisualDOE 3.1 (Eric Kolderup) Charles Eley Associates 142 Minna Street (2 nd 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	\$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 90 days free phone plus 1 year email support.; thereafter \$300/year per licensed user

Support Tools for DOE-2

Program Name and Vendor	Description	Cost
DOE-2 Parametric Study Tool The Deringer Group, Inc. 1349 Addison Street Berkeley, CA 94702 Ph: (510) 843-9000, Fx: 843-9005	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>
DoeRayMe (Jason Glazer, P.E.) 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.	
DrawBDL (Joe Huang) Joe Huang & Associates 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: tmchow@compuserve.com	\$125.00 plus shipping
PRC-DOE-2 (Paul Reeves) Partnership for Resource Conservation 140 South 34 th Street Boulder, CO 80303 Ph: 303-499-8611, Fx: 554-1370	<i>PRC-Tools</i> aid in extracting, analyzing, and formatting DOE-2 output . <i>PRC-Grab</i> automates the process of extracting any number of answers from DOE-2 standard output files. <i>PRC-Hour</i> and <i>PRC-Peak</i> 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
RIUSKA (Tuomas Laine) Olof Granlund Oy 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.
Visualize-IT (Matt Brost) RLW Analytics, Inc. 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
CBIP cbip.nrcan.gc.ca/cbip.htm Office of Energy Efficiency 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. The program will be offered until March 31, 2004.	Web Based (free)
Cool Tools (Peter Turnbull) 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)
DesiCalc GRI-98/0127 www.desicalc.com	DesiCalc screens desiccant cooling applications. It estimates annual or monthly energy loads, using hour-by-hour simulations, and costs for 11 typical commercial buildings in 236 geographical locations in the US. Includes the latest TMY2 meteorological database [Based on DOE-2.1E] OS: Windows 3.1, 95, 98, NT	\$295 w/doc +8.75% tax in IL +4.5% tax in VA S/H add \$20
Energy Gauge USA (Danny Parker) Florida Solar Energy Center 1679 Clearlake Road Cocoa, FL 32922	Energy Gauge USA 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. [Based on DOE-2.1E] OS: Windows 95, 98, NT	Contact Danny Parker at FSEC for availability.
Home Energy Saver (Residential DOE-2) hes.lbl.gov	Calculation of residential energy consumption using DOE-2.1E. The program performs a full annual simulation for a typical weather year (involving 8760 hourly calculations) from 239 locations around the United States in about 10-20 seconds.	Web Based (free)
PERFORM 2001 California Energy Commission 1516-9 th 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 www.energy.ca.gov/reports/reports_400.html
RESFEN-3.1 Building Technologies, MS 90-3111 Lawrence Berkeley Laboratory Berkeley, CA 94720	RESFEN calculates the energy and cost implications of a building's windows compared to insulated walls . The relative energy and cost impacts of two different windows can also be compared against each other. 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

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.

Australia and Australasia

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Tel: +61 2 9385 6373 / Fax: +61 2 9385 6735, email PC.Thomas@unsw.EDU.AU <http://www.fbe.unsw.edu.au/units/solarch>

Murray Mason, ACADS BSG, 18 High Street, Glen Iris, VIC. 3146, Australia / Tel: +61 39 885 6586 / Fax: +61 39 885 5974

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Prof. Roberto Lamberts, Universidade Federal de Santa Catarina, Campus Universitario-Trindade, Cx. Postal 476, 88049-900 Florianopolis SC, BRASIL

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