





## Meetings, Conferences, Symposia

### 2002

May 8-10 2002	10 <sup>th</sup> National Conference on Building Commissioning		To be held in Chicago, IL <a href="http://www.peci.org/ncbc/2002/index.html">http://www.peci.org/ncbc/2002/index.html</a>
May 20-23 2002	13 <sup>th</sup> Symposium on Improving Building Systems in Hot and Humid Climates		To be held in Houston, TX <a href="http://www-esl.tamu.edu/hh/main.htm">http://www-esl.tamu.edu/hh/main.htm</a>
June 2-5 2002	Energy 2002 Energy Efficiency Workshop & Exposition		To be held in Palm Springs, CA Contact: <a href="mailto:joanne@fsec.ucf.edu">joanne@fsec.ucf.edu</a>
June 3-5 2002	16th European Simulation Multi-Conference		To be held in Darmstadt, germany <a href="http://biomath.rug.ac.be/~scs/conf/esm2002/index.html">http://biomath.rug.ac.be/~scs/conf/esm2002/index.html</a>
June 22-26 2002	ASHRAE Annual Meeting		To be held in Honolulu, HI Contact: <a href="mailto:jyoung@ashrae.org">jyoung@ashrae.org</a> <a href="http://www.ashrae.org">http://www.ashrae.org</a>
June 30-July 5 2002	Indoor Air 2002		To be held in Monterey, CA <a href="http://www.indoorair2002.org">http://www.indoorair2002.org</a>
July 15-18 2002	2002 National Workshop on State Energy Building Codes		To be held in Des Moines, IA -- <a href="http://www.eren.doe.gov/buildings/codes_standards/buildings/2002_workshop.html">http://www.eren.doe.gov/buildings/codes_standards/buildings/2002_workshop.html</a>
August 18-23 2002	 Teaming for Efficiency		To be held in Pacific Grove, CA <a href="http://www.aceee.org">http://www.aceee.org</a>
September 12-13 2002	eSim 2002 Canadian Conference on Building Energy Simulation		To be held in Montreal, Canada <a href="http://buildingsgroup.nrcan.gc.ca/esim2002/English/esim_home.htm">http://buildingsgroup.nrcan.gc.ca/esim2002/English/esim_home.htm</a>



## Meetings, Conferences, Symposia (continued)

### 2002 Continued

November 13-15 2002      First Annual International Green Building Conference and Expo      To be held in Austin, TX  
<http://www.usgbc.org/expo.htm>

December 4-6 2002      Advances in Building Technology      To be held in Hong Kong  
Contact: [clyystui@polyu.edu.hk](mailto:clyystui@polyu.edu.hk)  
<http://www.polyu.edu.hk/~fclu/ABT21002>



December 16-18 2002      6<sup>th</sup> International Conference on System Simulation in Buildings      To be held in Liege, Belgium  
Contact: [michele.deprez@ulg.ac.be](mailto:michele.deprez@ulg.ac.be)  
<http://www.ulg.ac.be/labothap>



### 2003

January 25-29 2003      ASHRAE Winter Meeting      To be held in Chicago, IL  
Contact: [jyoung@ashrae.org](mailto:jyoung@ashrae.org)  
<http://www.ashrae.org>



June 28-July 2 2003      ASHRAE Annual Meeting      To be held in Kansas City, MO  
Contact: [jyoung@ashrae.org](mailto:jyoung@ashrae.org)  
<http://www.ashrae.org>



## DOE-2 Directory of Program Related Software and Services

### ESTSC Versions of DOE-2

Program Name	Description	Cost																
<b>DOE-2.1E (Ed Kidd or Walt Kelly)</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 110 for Windows and SUN UNIX DOE-2.1E/Version 117 1000-zone version  <b>Operating System:</b> Windows, SUN UNIX	<table border="1"> <thead> <tr> <th></th> <th>Windows</th> <th>SUN-UNIX</th> <th>VAX</th> </tr> </thead> <tbody> <tr> <td>Govt/Educ</td> <td>\$ 300</td> <td>\$455</td> <td>\$500</td> </tr> <tr> <td>US, Mexico, Canada</td> <td>\$575</td> <td>\$1365</td> <td>\$1835</td> </tr> <tr> <td>Other Foreign</td> <td>\$1075</td> <td>\$2120</td> <td>\$2716</td> </tr> </tbody> </table>		Windows	SUN-UNIX	VAX	Govt/Educ	\$ 300	\$455	\$500	US, Mexico, Canada	\$575	\$1365	\$1835	Other Foreign	\$1075	\$2120	\$2716
		Windows	SUN-UNIX	VAX														
Govt/Educ	\$ 300	\$455	\$500															
US, Mexico, Canada	\$575	\$1365	\$1835															
Other Foreign	\$1075	\$2120	\$2716															
<b>Support</b> From ESTSC, limited operational support (telephone assistance concerning installation, media or platform questions).																		

### Commercial Versions of DOE-2

Program Name	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. <b>Operating System:</b> DOS, Windows 95	<b>Input</b> \$395 + \$15/SH including one set weather data (your choice) and documentation
		<b>Output</b>
		<b>Support</b>
<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. <b>Operating System:</b> DOS, Windows (98, 95, NT)	<b>Input:</b> Customizable windows GUI dynamically built based on DOE-2 macros. \$500 consultant \$2000 client
		<b>Output</b>
		<b>Support</b> Documentation available
<b>DOE-Plus (Steve Byrne)</b> Item Systems byrne @ item.com 321 High School Road NE Box 344 Bainbridge Island, WA 98110 Ph: 206-855-9540 / Fx: 855-9541 http://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. <b>Operating System:</b> DOS, Windows (3.1, 95, NT)	<b>Input</b> Interactive, graphical, fill-in-the-blanks \$895 with DOE-2 and doc \$495 without DOE-2
		<b>Output</b> 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	Description		Cost
<b>EnergyPro 3.0 (D. Vonderkulen)</b> demian@energysoft.com  Gabel Dodd/EnergySoft LLC 100 Galli Drive #1 Novato, CA 94949-5657 Ph: 415-883-5900, Fx: 883-5970 www.energysoft.com	Performs nonresidential load calculations for HVAC equipment sizing. Electronically exports forms to AutoCad for inclusion on blueprints. On-line help. 344 weather files for the U.S. and Canada. <b>Operating System:</b> DOS, Windows (95, NT). <b>For California Users:</b> Performs Title 24 compliance calculations, includes state-certified HVAC and DHW Equipment directories, Title 24 tailored lighting calculations. Based on ESTSC DOE-2.1E	<u>Input:</u> Graphical	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
		<u>Output:</u> Graphs, forms	
		<u>Support:</u> Unlimited support	
<b>EZDOE (Bill Smith)</b> bsmith @ elitesoft.com Elite Software P.O. Box 1194 Bryan, TX 77806 Ph: 409-846-2340 / Fx: 846-4367 <a href="http://www.elitesoft.com/web/hvacr/elite_ezdoe_info.html">http://www.elitesoft.com/web/hvacr/elite_ezdoe_info.html</a>	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. <b>Operating System:</b> DOS	<u>Input:</u> Fill-in-the-blanks	\$1295 w/documentation
		<u>Output:</u> Standard DOE reports plus some custom graphic reports	Source code not available.
		<u>Support:</u> Unlimited phone support	
<b>FTI/DOE2 (Scott Henderson)</b> info @ finite-tech.com Finite Technologies Inc. 3763 Image Drive Anchorage, Alaska 99504 Ph: 907-333-8937, Fx: 333-4482 <a href="http://www.finite-tech.com/FTIDOE2001.htm">http://www.finite-tech.com/FTIDOE2001.htm</a>	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 <b>Operating System:</b> DOS, Windows (3.x, 95, NT) AIX, ULTRIX, VMS, Linux, NeXTStep,	<u>Input:</u> Version 2.x: text based Version 3.x: graphical	\$ 995.99 US w/documentation \$1066 Int'l w/documentation
		<u>Output:</u> All standard DOE-2 reports Run time and status graphics	\$4999.99 Source code
		<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.	
<b>PRC-DOE-2 (Paul Reeves)</b> Paul.Reeves@DOE2.com Partnership for Resource Conservation 140 South 34 <sup>th</sup> 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. <b>Operating System:</b> DOS, Windows (95, NT)	<u>Input:</u> Standard text-based	\$ 495 w/documentation
		<u>Output:</u>	Source code not available.
		<u>Support:</u> Unlimited support.	

### Commercial Versions of DOE-2 (continued)

Program Name	Description	Cost
<b>VisualDOE 3.0 (Eric Kolderup)</b> support@eley.com Charles Eley Associates 142 Minna Street San Francisco, CA 94105 Ph: 415-957-1977 Fx: 415-957-1381 <a href="http://www.eley.com/gdt/visualdoe/index.htm">http://www.eley.com/gdt/visualdoe/index.htm</a>	Fast construction of building geometry using pre-defined blocks and/or drawing interface. Import zone shapes from CADD file (dxf format). Point-and-click to define zone properties and HVAC systems. Rotate-able 3-D image of model. Custom hourly outputs, customized graphs. On-line help. 400+ US weather files, 12+ for Canada, plus selected locations around the world. <b>Operating System:</b> DOS, Windows (3.1, 95, NT)	Contact Eley Associates for cost of Version 3.0 (with documentation) Source code not available.
	<u>Input</u> Graphical	
	----- <u>Output</u> Graphical	
	----- <u>Support</u> 90 days free phone and email support.; thereafter \$195/hear	

### Pre- and Post Processors for DOE-2

Program Name	Description	Cost
<b>DrawBDL Joe Huang &amp; Associates</b> 6720 Potrero Avenue El Cerrito, CA 94530 Ph/Fx: 510-236-9238	<b>DrawBDL</b> , Version 2.1, is a <b>graphic debugging and drawing tool for DOE-2 building geometry</b> . 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. <b>Operating System:</b> DOS, Windows (3.1, 95, 98, NT) [Works with 2.1E]	\$125.00 plus shipping
<b>PRC-TOOLS (Paul Reeves)</b> <b>P R C</b> 140 South 34 <sup>th</sup> Street Boulder, CO 80303 Ph: 303-499-8611 / Fx: 554-1370	<i>PRC-Tools</i> aid in <b>extracting, analyzing, and formatting DOE-2 output</b> . <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. <b>Operating System:</b> 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 (tuomas.laine@granlund.fi) 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. <b>Operating System:</b> Windows (95, 98, NT) [Works with 2.1E]	Contact Tuomas Laine for pricing.
<b>Visualize-IT (Matt Brost)</b> <b>RLW Analytics, Inc.</b> mattb@rlw.com 1055 Broadway, Suite G Sonoma, CA 95476 Ph: 800-472-6716 Fx: 707-939-8823 <a href="http://www.rlw.com/visualize_it.html">www.rlw.com/visualize_it.html</a>	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. <b>Operating System:</b> Windows 95, 98 and NT	\$500.00 per set Volume Discounts Available

### Special Versions of DOE-2

Program Name	Description	Cost
<b>CBIP</b> <a href="http://cbip.nrcan.gc.ca/cbip.htm">cbip.nrcan.gc.ca/cbip.htm</a> Office of Energy Efficiency Natural Resources Canada 580 Booth St., 18th Floor Ottawa ON K1A 0E4, CANADA	Natural Resources Canada's <b>Commercial Building Incentive Program (CBIP)</b> 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)
<b>Cool Tools</b> <b>(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)
<b>DesiCalc GRI-98/0127</b> <a href="http://www.desicalc.com">www.desicalc.com</a>	<b>DesiCalc screens desiccant cooling applications.</b> 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] <b>Operating System:</b> Windows 3.1, 95, 98, NT	\$295 w/doc +8.75% tax in IL +4.5% tax in VA S/H add \$20
<b>Energy Gauge USA (Danny Parker)</b> Florida Solar Energy Center 1679 Clearlake Road Cocoa, FL 32922 <a href="http://energygauge.com">energygauge.com</a>	<b>Energy Gauge USA</b> allows the simple <b>calculation and rating of residential building energy use</b> 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] <b>Operating System:</b> Windows 95, 98, NT	Contact Danny Parker at FSEC for availability.
<b>Home Energy Saver</b> (Residential DOE-2) <a href="http://hes.lbl.gov">hes.lbl.gov</a>	<b>Calculation of residential energy consumption using DOE-2.1E.</b> 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)
<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 <b>California</b> Energy Commission's, <b>Title 24 energy code</b> . 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	<b>RESFEN</b> calculates the <b>energy and cost implications of a building's windows compared to insulated walls.</b> 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] <b>Operating System:</b> Windows 95, 98, NT	Free! Download from <a href="http://windows.lbl.gov/software/resfen">windows.lbl.gov/software/resfen</a>

## 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.*

### **Australasia**

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Tel: +61 2 9385 6373 / Fax: +61 2 9385 6735, email [PC.Thomas@unsw.EDU.AU](mailto:PC.Thomas@unsw.EDU.AU) [www.fbe.unsw.edu.au/units/solarch](http://www.fbe.unsw.edu.au/units/solarch)

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## INTERNATIONAL DOE-2 RESOURCE CENTERS (continued)

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