# Meetings, Conferences, Symposia

	2003				
March 13, 2003	Energy Technology Seminar (1-day)	To be held in Irwindale, CA  www.sce.com/ctac  Southern California Edison's  "Customer Technology  Application Center"			
May 20-22 2003	11 <sup>th</sup> National Conference on Building Commissioning	To be held in Palm Springs, CA www.peci.org/ncbc			
June 28-July 2 2003	ASHRAE Annual Meeting ASHRAE	To be held in Kansas City, MO Contact: jyoung@ashrae.org www.ashrae.org			
July 29-August 1 2003	ACEEE Summer Study on Energy Efficiency in Industry	To be held in Rye Brook, NY www.aceee.org/conf/03ss/03call.htm			
August 11-14 2003	IBPSA Building Simulation 2003  Building Simulation 2003				
August 17-20 2003	Energy 2003	To be held at Lake Buena Vista (Wyndham resort in Walt Disney World Village), Florida www.energy2003.ee.doe.gov/			

# **Directory of Software and Services for EnergyPlus**

Program Name	Description		Cost
EnergyPlus 1.0.3	Downloadable from www.energyplus.gov	Support EnergyPlus-Support@gard.com  Support Group groups.yahoo.com/group/EnergyPlus_Support	Free

## **Support Tools for EnergyPlus**

Program Name	Description	Cost
The Deringer Group, Inc. 1349 Addison Street Berkeley, CA 94702 Tel: (510) 843-9000 Fax: (510) 843-9005 www.deringergroup.com/	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.  EnergyPlus Interface Support Tools  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 3-D geometry imbedded in an EnergyPlus file.	Free
Trowbridge Engineering Jim Trowbridge, P.E. 8240 Caribbean Way Sacramento, CA 95826 Tel: (916) 803-5436 www.epmaker.com	<b>EPmaker LE</b> runs the EnergyPlus building simulation program for HVAC package systems. A future version will include complex central plant HVAC systems. The graphical CADD-like interface makes it easy to entry building geomerty that describes the wall, floor, ceiling and shading details in a few minutes. Both IP and SI units are supported. Several occupancy and construction libraries are included. Free Demo is available on the website.	\$400

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## **Directory of Software and Services for DOE-2**

## **ESTSC Versions of DOE-2**

Program Name	Description		Cost	
DOE-2.1E (Ed Kidd or Walt Kelly) 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	Support Limited operational support (telephone assistance for installation, media or platform questions).	Windows U.S. Govt/Non-Profit/Educ U.S. Public, Mexico, Canada Japan Other Foreign	\$ 300 \$ 575 \$1268 \$1075

## **Commercial Versions of DOE-2**

Program Name	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	Output Support	\$395 + \$15/SH including one set weather data (your choice) and documentation
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)	Input: Customizable windows GUI dynamically built based on DOE-2 macros.  Output Support	\$500 consultant \$2000 client Documentation available
DOE-Plus (Steve Byrne) Item Systems byrne @ item.com 321 High School Road NE Box 344 Bainbridge Island, WA 98110 Ph: 206-855-9540 / Fx: 855-9541 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)	Input Interactive, graphical, fill-in-the-blanks  Output Customizable tables and graphics	\$895 with DOE-2 and doc \$495 without DOE-2 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
EnergyPro 3.0 (D. Vonderkulen) Gabel Dodd/EnergySoft LLC 100 Galli Drive #1 Novato, CA 94949-5657 Ph: 415-883-5900, Fx: 883-5970	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. OS: DOS, Windows (95, NT).  For California Users: Performs Title 24 compliance calculations, includes state-certified HVAC and DHW Equipment directories, Title 24 tailored lighting calculations. Based on ESTSC DOE-2.1E	Input: Graphical  Output: Graphs, forms  Support 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 includes documentation <sup>3</sup> 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	Input Fill-in-the-blanks  Output Standard DOE reports plus some custom graphic reports  Support Unlimited phone support	\$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,	Input Version 2.x: text based Version 3.x: graphical Output All standard DOE-2 reports Run time and status graphics Support 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
PRC-DOE-2 (Paul Reeves) 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. OS: DOS, Windows (95, NT)	Input Standard text-based	\$ 495 w/documentation  Source code not available.
VisualDOE 3.1 (Eric Kolderup) Charles Eley Associates 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	Output Graphical 60% discount for \$3000 Site lices	al upgrade from version 2.6 or educational use nse (up to 8 registration keys) e license (up to 15 registration keys)

## Please visit our web site at http: SimulationResearch.lbl.gov

## **Support Tools for DOE-2**

Program Name	Description	Cost
DOE-2 Parametric Study Tool The Deringer Group, Inc. 1349 Addison Street Berkeley, CA 94702 Ph: (510) 843-9000, Fx: 843-9005	<b>DOE2PARM</b> – 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.	Free!
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.	
<b>DrawBDL</b> Joe Huang & Associates 31 Sarah Lane Moraga CA 94553 Ph: 925-247-9180	<b>DrawBDL,</b> Version 3.0, 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. 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 <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
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

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## **Special Versions of DOE-2**

Program Name	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 <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)
Cool Tools (Peter Turnbull) Pacific Gas & Electric Company pwt1@pge.com www.hvacexchange.com/cooltools/	The CoolTools <sup>TM</sup> 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	<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] 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 <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 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.

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