

# Meetings, Conferences, Symposia

## 2004

March 7-11 2004

NFRC's Spring Meeting

To be held in Miami Beach, FL  
<http://www.nfrc.org/meetings.html>



March 2004

THERM5 and WINDOW 5 Simulation Training  
 Workshop

To be held in Miami Beach, FL  
<http://www.nfrc.org/meetings.html>



May 2-7, 2004

CIB World Building Congress 2004

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

May 3-5 2004



Turkish society of HVAC &  
 Sanitary Engineers Technology  
 Symposium and Exhibition

To be held in Istanbul, Turkey • [www.ttmd.org.tr](http://www.ttmd.org.tr)

June 9-11, 2004

The Canadian Conference on  
 Building Energy Simulation



eSim 2004:

To be held in Vancouver, BC, Canada  
[http://www.esim.ca/2004/English/about\\_esim.htm](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](http://www.hefat.com)



June 26-30 2004

ASHRAE Annual Meeting



To be held at Opryland in Nashville, TN • [www.ashrae.org](http://www.ashrae.org)

August 4-6, 2004

SimBild 2004  
 IBPSA-USA  
 First National Conference



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

October 10-14 2004

NFRC Annual Fall Meeting

To be held in Portland, OR  
[www.nfrc.org/meetings.html](http://www.nfrc.org/meetings.html)



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/](http://www.ornl.gov/buildings/)

## 2005

February 5-9, 2005

ASHRAE Winter Meeting



To be held in Orlando, FL • [www.ashrae.org](http://www.ashrae.org)

June 25-29, 2005

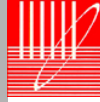
ASHRAE Annual Meeting



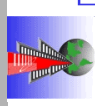
To be held in Denver, CO • [www.ashrae.org](http://www.ashrae.org)

August 15, 2005

IBPSA's BS 2005



To be held at **École Polytechnique de Montréal** in Montreal, Canada • <http://www.ibpsa.org/>



## 2006

January 21-25, 2006

ASHRAE Winter Meeting



To be held in Chicago, IL • [www.ashrae.org](http://www.ashrae.org)

June 24-28, 2006

ASHRAE Annual Meeting



To be held Quebec City, Canada • [www.ashrae.org](http://www.ashrae.org)

## Directory of Software and Services for EnergyPlus

Program Name	Description	Cost
EnergyPlus 1.1.1	Downloadable from <a href="http://www.energyplus.gov/">www.energyplus.gov/</a>  <a href="mailto:Support@energyplus-support.com">Support</a> mailto:EnergyPlus-Support@gard.com  <a href="http://groups.yahoo.com/group/EnergyPlus_Support">Support Group</a> groups.yahoo.com/group/EnergyPlus_Support	Free!

## Support Tools for EnergyPlus

Vendor	Description	Cost
<b>The Deringer Group, Inc.</b> 1349 Addison Street Berkeley, CA 94702 Tel: (510) 843-9000 Fax: (510) 843-9005 <a href="http://www.deringergroup.com/">www.deringergroup.com/</a>	<b>EnergyPlus Online Simulations</b> – 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.  <b>EnergyPlus Interface Support Tools</b> <b>EzPlus-Parm</b> 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. <b>DrawEzPlus</b> 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.	Free!
<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>	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. <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.	See website

## Support Tools for EnergyPlus (Continued)

Vendor	Description	Cost
<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  <a href="http://www.squ1.com/">www.squ1.com/</a></p>	<p><b>ECOTECH</b> 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>See <i>website</i></p>
<p><b>Taylor Systems Engineering</b>            Suite 100            9801 Fair Oaks Boulevard            Fair Oaks, CA. 95628            Phone: (916) 961-3400            Fax: (916) 961-3410  <a href="http://www.tse-inc.net/">www.tse-inc.net/</a></p>	<p><b>TSe+</b> 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><b>TSe+Mat</b> (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><b>TSe+Glz</b> (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>Free!</p>

## U. S. EnergyPlus CONSULTANTS

<b>California</b>			
<b>Cliff Gustafson or Smita Gupta</b> cdg@tse-inc.net	Taylor Systems Engrg., Inc. www.tse-inc.net/tseplus/index.html	9801 Fair Oaks Boulevard, #100 Fair Oaks, CA 95628	(916) 961-3400 fax: 961-3410
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# 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	Source code, executable code and complete current documentation for:	<b>Windows</b> U.S. Govt/Non-Profit/Educ \$ 300 U.S. Public, Mexico, Canada \$ 575 Japan \$1268 Other Foreign \$1075
<b>ESTSC</b> P.O. Box 1020 Oak Ridge, TN 37831-1020 Ph: 865-576-2606 / Fx: 576-2865 www.osti.gov/estsc	DOE-2.1E/Version 121 (1000-zone version)  OS: Windows, SUN UNIX	
	<u>Support</u> Limited operational support (telephone assistance for installation, media or platform questions).	

## Commercial Versions of DOE-2

Program Name and Vendor	Description	Cost
<b>ADM-DOE-2 (Richard Burkhardt)</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	<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)	\$500 consultant \$2000 client  Documentation available
<b>DOE-Plus (Steve Byrne)</b> Item Systems info@item.com 8121 - 188 <sup>th</sup> 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)	\$895 with DOE-2 and doc \$495 without DOE-2 Source code not available.
	<u>Input</u> Interactive, graphical, fill-in-the-blanks  <u>Output</u> Customizable tables and graphics	

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
<p><b>EnergyPro 3.0 (D. Vonderkulen)</b>                      Gabel Dodd/EnergySoft LLC                      100 Galli Drive #1                      Novato, CA 94949-5657                      Ph: 415-883-5900, Fx: 883-5970</p>	<p>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</p>	<p>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</p>
<p><b>EZDOE (Bill Smith)</b>                      Elite Software                      P.O. Box 1194                      Bryan, TX 77806                      Ph: 409-846-2340 / Fx: 846-4367</p>	<p>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</p>	<p>\$ 1295 w/documentation                      Source code not available.</p>
<p><b>FTI/DOE2 (Scott Henderson)</b>                      Finite Technologies Inc.                      3763 Image Drive                      Anchorage, Alaska 99504                      Ph: 907-333-8937, Fx: 333-4482</p>	<p>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.</p>	<p>\$ 995.99 US w/documentation                      \$ 1066 Int'l w/documentation                      \$ 4999.99 Source code</p>
<p><b>PRC-DOE-2 (Paul Reeves)</b>                      Partnership for Resource Conservation                      140 South 34<sup>th</sup> Street                      Boulder, CO 80303                      Ph: 303-499-8611, Fx: 554-1370</p>	<p>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)</p>	<p>\$ 495 w/documentation                      Source code not available.</p>
<p><b>VisualDOE 3.1 (Eric Kolderup)</b>                      Charles Eley Associates                      142 Minna Street (2<sup>nd</sup> floor)                      San Francisco, CA 94105                      Ph: 415-957-1977 - Fax 1381</p>	<p>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</p>	<p>\$ 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</p>

## Support Tools for DOE-2

Program Name and Vendor	Description	Cost
<p><b>DOE-2 Parametric Study Tool</b>  <b>The Deringer Group, Inc.</b>                      1349 Addison Street                      Berkeley, CA 94702                      Ph: (510) 843-9000, Fx: 843-9005</p>	<p><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.</p>	<p>Free!</p>
<p><b>DoeRayMe</b>                      (Jason Glazer, P.E.)                      GARD Analytics                      1028 Busse Highway                      Park Ridge, Illinois 60068-1802                      Ph: 847-698-5690</p>	<p>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.</p>	
<p><b>DrawBDL</b>                      (Joe Huang)  <b>Joe Huang &amp; Associates</b>                      31 Sarah Lane                      Moraga CA 94556-2563                      Ph: 925-247-9180</p>	<p><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</p>	<p>\$125.00                      plus shipping</p>
<p><b>PRC-DOE-2</b>                      (Paul Reeves)  <b>Partnership for Resource Conservation</b>                      140 South 34<sup>th</sup> Street                      Boulder, CO 80303                      Ph: 303-499-8611, Fx: 554-1370</p>	<p><b>PRC-Tools</b> aid in <b>extracting, analyzing, and formatting DOE-2 output</b>. <b>PRC-Grab</b> automates the process of extracting any number of answers from DOE-2 standard output files. <b>PRC-Hour</b> and <b>PRC-Peak</b> 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]</p>	<p>\$99.00</p>
<p><b>RIUSKA</b>                      (Tuomas Laine)  <b>Olof Granlund Oy</b>                      P O Box 59 Helsingki, FIN-00701                      Finland                      Ph: +358 (9) 351031 / Fx: 35103421</p>	<p>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]</p>	<p>Contact Tuomas Laine for pricing.</p>
<p><b>Visualize-IT</b>                      (Matt Brost)  <b>RLW Analytics, Inc.</b>                      1055 Broadway, Suite G                      Sonoma, CA 95476                      Ph: 800-472-6716                      Fx: 707-939-8823</p>	<p>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</p>	<p>\$500.00 per set                      Volume Discounts Available</p>



## Special Versions of DOE-2

Program Name and Vendor	Description	Cost
<p><b>CBIP</b>                      cbip.nrcan.gc.ca/cbip.htm                      Office of Energy Efficiency                      Natural Resources Canada                      580 Booth St., 18th Floor                      Ottawa ON K1A 0E4, CANADA</p>	<p>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.</p>	<p>Web Based (free)</p>
<p><b>Cool Tools (Peter Turnbull)</b>                      Pacific Gas &amp; Electric Company                      pwt1@pge.com                      www.hvacexchange.com/cooltools/</p>	<p>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.</p>	<p>Web Based (free)</p>
<p><b>DesiCalc GRI-98/0127</b>                      www.desicalc.com</p>	<p><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</p>	<p>\$295 w/doc                      +8.75% tax in IL                      +4.5% tax in VA                      S/H add \$20</p>
<p><b>Energy Gauge USA (Danny Parker)</b>                      Florida Solar Energy Center                      1679 Clearlake Road                      Cocoa, FL 32922</p>	<p><b>Energy Gauge USA</b> 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</p>	<p>Contact Danny Parker at FSEC for availability.</p>
<p><b>Home Energy Saver</b>                      (Residential DOE-2)                      hes.lbl.gov</p>	<p><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.</p>	<p>Web Based (free)</p>
<p><b>PERFORM 2001</b>                      California Energy Commission                      1516-9<sup>th</sup> St., MS-13                      Sacramento, CA 95814                      Ph: 916-654-5385</p>	<p>Created for the State of California 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.</p>	<p>\$250 including PERFORM 2001 program and manual on CD. (VISA/MC)                      Order #PS-400-04-017                      www.energy.ca.gov/reports/reports_400.html</p>
<p><b>RESFEN-3.1</b>                      Building Technologies, MS 90-3111                      Lawrence Berkeley Laboratory                      Berkeley, CA 94720</p>	<p><b>RESFEN</b> 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</p>	<p>Free! Download</p>

## 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

**P. C. Thomas, SOLARCH**, University of New South Wales, Sydney 2052, Australia

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

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### Czech Republic

Faculty of Civil Engineering, Dept. of Environmental and Building Services Engineering, Czech Technical University in Prague, Thakurova 7, 166 29 Praha 6, CZECH

REPUBLIC <http://www.fsv.cvut.cz/lascii/index.htm> Tel: +42 2 2435 4327

### Egypt

**Dr. Ossama A. Abdou**, Center for Building Environmental Studies and Testing (C-Best), 15-El-Shibani Street, Almanza, Cairo, Egypt Tel: +20 2 391 1137 or +20 2 417 4583 /

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## INTERNATIONAL DOE-2 RESOURCE CENTERS (continued)

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### Portugal, Spain, Italy, and Greece

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### Singapore, Malaysia, Indonesia, Thailand, and the Philippines

**WONG Yew Wah (Raymond)**, Nanyang Technological University, School of Mechanical and Production Engineering, Nanyang Avenue, Singapore 2263, Republic of Singapore, mywong@ntu.edu.sg / Tel: +65 790 5543 / Fax: +65 791 1859

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