# Meetings, Conferences, Symposia

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March 24-26 2002	The National Green Building Conference	To be held in Seattle, WA http://www.nahbrc.org/
March 25-26 2002	ACEEE Symposium on Market Transformation	To be held in Washington, DC http://www.aceee.org/conf/mt02annc.htm
April 14-18 2002	LIGHT + BUILDING International Trade Fair	To be held in Frankfurt, Germany email ina.wiesberger@messefrankfurt.com
April 29- May 3 2002	2002 Worldwide Energy Conference	To be held in Washington, DC http://www.desc.dla.mil/DCM/DCMPage.asp?LinkID=DESCWWEC2002Home
May 8-10 2002	10 <sup>th</sup> National Conference on Building Commissioning	To be held in Chicago, IL http://www.peci.org/ncbc/2002/index.html
May 20-23 2002	13 <sup>th</sup> Symposium on Improving Building Systems in Hot and Humid Climates	To be held in Houston, TX http://www-esl.tamu.edu/hh/main.htm
June 2-5 2002	Energy 2002 Energy Efficiency Workshop & Exposition	To be held in Palm Springs, CA Contact: joanne@fsec.ucf.edu
June 3-5 2002	16th European Simulation Multi-Conference	To be held in Darmstadt, germany http://biomath.rug.ac.be/~scs/conf/esm2002/index.html
June 22-26 2002	ASHRAE Annual Meeting ASHRAE	To be held in Honolulu, HI Contact: jyoung@ashrae.org http://www.ashrae.org

# Meetings, Conferences, Symposia (continued)

2002 Continued					
June 30-July 5 2002	Indoor Air 2002	To be held in Monterey, CA http://www.indoorair2002.org			
July 15-18 2002	2002 National Workshop on State Energy Building Codes  To be held in Des Moines, I Ahttp://www.eren.doe.gov/buildings/2002_workshop.html				
August 18-23 2002	Teaming Efficien				
September 12-13 2002	eSim 2002 Canadian Conference on Building E Simulation	To be held in Montreal, Canada  http://buildingsgroup.nrcan.gc.ca/esim2002/English/ esim_home.htm			
December 4-6 2002	Advances in Building Technology	To be held in Hong Kong Contact: clyystui@polyu.edu.hk http://www.polyu.edu.hk/~fclu/ABT21002			
December 16-18 2002	6 <sup>th</sup> International Conference on S Simulation in Buildings	ystem To be held in Liege, Belgium Contact: 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  http://www.ashrae.org			
June 28-July 2 2003	ASHRAE Annual Meeting	To be held in Kansas City, MO Contact: 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	
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 (1,000-zone version)  Operating System: Windows	Support From ESTSC, limited operational support (telephone assistance concerning installation, media or platform questions).	Windows U. S. Govt, Educational US, 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. <b>Operating System</b> : DOS, Windows 95	Input	\$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.  Operating System: 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 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.  Operating System: 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) 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).  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> 1 price reflects cash discount 2 includes documentation 3 required
EZDOE (Bill Smith) bsmith @ elitesoft.com Elite Software P.O. Box 1194 Bryan, TX 77806 Ph: 409-846-2340 / Fx: 846-4367 http://www.elitesoft.com/web/hvacr/elite_ezdoe_info.html	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.  Operating System: 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) info @ finite-tech.com Finite Technologies Inc. 3763 Image Drive Anchorage, Alaska 99504 Ph: 907-333-8937, Fx: 333-4482 http://www.finite-tech.com/	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,	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) 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.  Operating System: DOS, Windows (95, NT)	Input Standard text-based  Output  Support Unlimited support.	\$ 495 w/documentation  Source code not available.

# Commercial Versions of DOE-2 (continued)

Program Name	Description		Cost
VisualDOE 3.0 (Eric Kolderup) support@eley.com Charles Eley Associates 142 Minna Street San Francisco, CA 94105 Ph: 415-957-1977 Fx: 415-957-1381 http://www.eley.com/gdt/ visualdoe/index.htm	Fast construction of building geometry using predefined blocks and/or drawing interface. Import zone shapes from CADD file (dxf format). Point-and-click to define zone properties and HVAC systems. Rotateable 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.  Operating System: DOS, Windows (3.1, 95, NT)	Input Graphical  Output Graphical  Support 90 days free phone and email support.; thereafter \$195/hear	Contact Eley Associates for cost of Version 3.0 (with documentation) Source code not available.

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

Program Name	Description	Cost
DrawBDL Joe Huang & Associates 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
PRC-TOOLS (Paul Reeves) PRC 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. Operating System: Windows (95, 98, NT) [Works with 2.1E]	\$99.00
RIUSKA (Tuomas Laine) Olof Granlund Oy 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.  Operating System: Windows (95, 98, NT) [Works with 2.1E]	Contact Tuomas Laine for pricing.
Visualize-IT (Matt Brost) RLW Analytics, Inc. mattb@rlw.com 1055 Broadway, Suite G Sonoma, CA 95476 Ph: 800-472-6716 Fx: 707-939-8823 www.rlw.com/visualize_it.html	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
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	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] Operating System: 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 energygauge.com	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] Operating System: 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] Operating System: Windows 95, 98, NT	Free! Download from windows.lbl.gov/software/ resfen

#### 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**

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 www.fbe.unsw.edu.au/units/solarch

#### **Australia**

Murray Mason, ACADS BSG, 16 High Street, Glen Iris, VIC. 3146, Australia / Tel: +61 885 6586 / Fax: +61 885 5974

#### Brazil

Prof. Roberto Lamberts, Universidade Federal de Santa Catarina, Campus Universitario-Trindade, Cx. Postal 476, 88049-900 Florianopolis SC, BRASIL lamberts@ecv.ufsc.br / Tel: +55 48 331 9272/ Fax: +55 48 331 9770

## **Czech Republic**

Ing. Zuzana Krtkova, Faculty of Civil Engineering, Dept. of Environmental and Building Services Engineering, Czech Technical University in Prague, Thakurova 7, 166 29 Praha 6, CZECH REPUBLIC krtkova@fsv.cvut.cz 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 / Fax: +20 2 519 4343 / oabdou@hotmail.com

## Germany

B. Barath or G. Morgenstern, Ingenieurbüro Barath & Wagner GmnH, Postfach 20 21 41, D-41552 Kaarst, Germany Tel: +49 2 131 7574 9012 G. Morgenstern / Fax: +49 2 131 7574 9029

## Hong Kong, China, Taiwan, Japan

Dr. Sam C. M. HUI or K.P. Cheung, Dept of Architecture, University of Hong Kong, Pokfulam Road, Hong Kong (SAR), CHINA / cmhui@hku.hk or kpcheung@hku.hk / http://arch.hku.hk/research/BEER/DOE-2/DOE-2.htm

Tel: +852 2859 2123 Sam Hui / Fax: +852 2559 6484

#### India

Jiten Prajapati or Anil K. Anand, Energy Systems Engineering, IIT-Mumbai, Powai, Mumbai 400 076, INDIA

Tel: +91 022 578 2545 x7378

## Italy

Marco Rapella, Via Bonfadini 33, I-23100 Sondrio, ITALY Tel: +390342511168, marco.rapella@libero.it, cell phone number: +393474756858

## Korea (Chungnam)

Dr. Jun Tae Kim, Department of Architectural Engineering, Kongju National University, 182 Sinkwan-dong, Kongju, Chungnam 314-701, Republic of Korea / jtkim@knu.kongju.ac.kr / Tel: +82 416 850 8653 / Fax +82 416 856 9388

### Korea (Seoul)

Dr. Jung-Ho Huh, Ph.D., Assistant Professor, Dongdaemoon-Gu Jeonnong-Dong 90, Dept. of Architectural Engineering, The University of Seoul, Seoul 130-743, Korea. --huhi0715@uoscc.uos.ac.kr, Tel: +02-2210-2616 / Fax: +02-2248-0382

## INTERNATIONAL DOE-2 RESOURCE CENTERS (continued)

## Korea (Taejon)

Dr. Euy-Joon Lee and Jong-Ho Yoon, Passive Solar Research Team, Bldg 2, Room 202, Korea Institute of Energy Research, Daeduk Science Town, 71-2 Jang-Dong, Yusong-Gu, Taejon 305-343, Republic of Korea. -- Lee: ejlee@kier.re.kr, Yoon: yesru@kier.re.kr
Tel: +82 42 860 3514 / Fax: +82 42 860 3132

### **New Zealand**

Tan Yune, Architecture Department, The University of Auckland, Private Bag 92019, Auckland, New Zealand tanyune@ccu1.auckland.ac.nz / Tel: +64 9 373 7999 x5647 / Fax: +64 9 373 7410

## Portugal, Spain, Italy, and Greece

Antonio Rego Teixeira, INETI, Departamento de Energias Renováveis (DER), Estrada do Paco do Lumiar, 1649-038 Lisboa, Portugal rego.teixeira@mail.ineti.pt / Tel: +351 21 716 5141 x2669 / Fax: +351 21 716 4305

## 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, mywwong@ntu.edu.sq / Tel: +65 790 5543 / Fax: +65 791 1859

#### South Africa

Prof. L. J. Grobler, School of Mechanical and Materials Engineering, University of Potchefstroom, Private Bag X6001, Potchefstroom 2520, South Africa, mgiljg@puknet.puk.ac.za / Tel: +27 148 299 1328 / Fax: +27 148 299 1320

### **Switzerland**

René Meldem, BG ingenieurs Conseils SA, 61 Avenue de Cour, Case postale, CH-1000 Lausanne, Switzerland Tel: +41 21 618 1111, Fax: +41 21 618 1122, rene.meldem@bg-21.com

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## INTERNATIONAL DOE-2 ENERGY CONSULTANTS

#### Australia

P. C. Thomas, Sustainable Building & Energy Consultants, 6/52 Houston Road, Kingsford NSW 2032, Australia. Tel/Fax: +61 2 9662 0205, Mobile +61 417 405 478, pc\_thomas@iname.com

## **Belgium**

Andre Dewint, S.A. Alpha Pi n.v., Avenue Franklin Roosevelt 74 bte 2, B-1000 Bruxelles, BELGIUM, Tel: +32 2 343 4251 / Fax: +32 2 343 0377

### Canada

Curt Hepting, P.Eng. EnerSys Analytics, 2989 Delahaye Drive, Coquitlam, B.C. V3B 6Y9 Canada chepting@telus.net / http://www.enersys.ca/info/Tel: (604) 552-0700 / Fax (604) 552-0713

Dejan Radoicic, D. W. Thomson Consultants, Ltd., 1985 West Broadway #200, Vancouver, BC V6J 4Y3, Canada Tel (604) 731-4921 / Fax (604) 738-4420

Neil A. Caldwell, PE, DukeSolutions Canada, Inc., 1730 - 401 West Georgia St., Vancouver, BC V6B 5A1 Canada ncaldwe@duke-energy.ca

Dr. Stephane Bilodeau, PE, President, Groupe Enerstat, Inc., 79 Wellington North #202, Sherbrooke (Quebec) J1H 5A9, Canada sbilodeau@groupeenerstat.com / Tel: (819) 562-8040 / Fax (819) 562-5578

Gordon Shymko, G.F. Shymko & Associates, Inc., 129 Evergreen Crescent S.W., Calgary, Alberta T2Y 3R2, Canada

## Germany

Jens Grundt and Ludwig Michel, GMW-Ingenieurburo, Die Planer Villa, Bünteweg 10a, 30559 Hannover, Lower Saxony, Germany Tel: +49 0511 58 59 48 -11/Fax +49 0511 58 59 48 -48 www.gmw-ingenieurbuero.de j.grundt@gmw-ingenieurbuero.de

### Italy

Marco Rapella, Via Bonfadini 33, I-23100 Sondrio, ITALY Tel: +390342511168, marco.rapella@libero.it, cell phone number: +393474756858

#### Ireland

Paul Overy, Overy + Associates, Mechanical and Electrical Consulting Engineers, 43 Parnell Street, Clonmel, Co Tipperary, Ireland Tel: +353 (0)52-27667. Fax: +353 (0)52-29238 www.overy-assoc.com

#### **New Zealand**

Paul Bannister, Energy Group, Ltd., 14a Wickliffe Street (P.O. Box 738), Dunedin New Zealand eglstaff@earthlight.co.nz, Tel: +64 3479 0148, Fax: 3479 0759

#### **Switzerland**

René Meldem, BG ingenieurs Conseils SA, 61 Avenue de Cour, Case postale, CH-1000 Lausanne, Switzerland

Tel: +41 21 618 1111. Fax: +41 21 618 1122. rene,meldem@bg-21.com

Philip Schluchter, Institut fur Bauphysik Klein, Urs Graf-Strasse 1, CH-4052 Basel, Switzerland

Gerhard Zweifel, Hochschule Technik + Architektur Luzern, Technikumstrasse 21 Abt. HLK, CH-6048 Horw, Switzerland gzweifel@ztl.ch Tel: +41 349 3349, Fax: 349 3960

Markus Koschenz, Building Equipment Section 175, EMPA, 129 Überlandstrasse, CH-8600 Dübendorf, Switzerland Markus.Koschenz@empa.ch, Tel: +41 1823 5511, Fax: 821-6244

### **United Kingdom**

Dr. Peter Simmonds, Ove Arup and Partners, Ltd., 13 Fitzroy Street, London W1P 6BQ, UNITED KINGDOM.

Tel: +44 20-7465-3637 / Fax: 7465-3667, peter.simmonds@arup.com / www.arup.com

# U.S. DOE-2 ENERGY CONSULTANTS

Arizona			·	
Dale R. Broughton, P.E.	Quantum Computer Resources	20833 North 1st Street	Phoenix, AZ 85027	(623) 780-3496
drb6@home.com	www.qcr-usa.com			fax: 322-0049
Henny van Lambalgen, P.E.	Quest Energy Group, LLC	4324 East Pearce Road	Phoenix, AZ 85044	(480) 753-5590
nenny@questenergy.com	www.questenergy.com			fax 753-1215
Marlin S. Addison	M. S. Addison & Associates	1215 West 12th Place	Tempe, AZ 85281	(480) 968-2040
marlin.addison@doe2.com				fax: 968-2053
Chuck Sherman	ESSengineering	2141 East Broadway, #211	Tempe, AZ 85282	(480) 784-4500
ces@essinc.com				fax: 784-4800
Sarat Kanaka	EcoGroup, Inc., Suite 301	2085 E. Technology Circle	Tempe, AZ 85284	(602) 777-3000
nexus@nexusenergy.com				
California				(-1-)
loseph Deringer,	The Deringer Group, Inc.	1349 Addison Street	Berkeley, CA 94703	(510) 843-9000
deringer@deringergroup.com	www.deringergroup.com			fax: 843-9005
Qiang (Peter) Zhang	www.ecoadvisor.com			
eter@deringergroup.com //. Gabel, R. Howley	Gabel Associates, LLC	1818 Harmon Street	Berkeley, CA 94703	(510) 428-0803
office@gabelenergy.com	www.gabelenergy.com	1616 Haimon Street	Berkeley, CA 94703	fax: 428-0324
George Marton	1129 Keith Avenue		Berkeley, CA 94708	(510) 841-8083
ohn R. Aulbach, PE	jrascab36@earthlink.net	23508 Naffa Avenue	Carson, CA 90745	(310) 549-7118
eo Rainer	Davis Energy Group, Inc.	123 C Street	Davis, CA 95616	(916) 753-1100
rainer@davisenergy.com	www.davisenergy.com	123 C Street	Davis, CA 95616	(916) /53-1100
Heshong and D. Mahone	The Heshong Mahone Group	11626 Fair Oaks Blvd, #302	Fair Oaks, CA 95628	(916) 962-7001
heshong@h-m-g.com	www.h-m-g.com	11020 Fall Oaks Bivd, #302	Fall Oaks, CA 93020	fax: 962-0101
dmahone@h-m-g.com	www.n-m-g.com			1ax. 302-0101
Cliff Gustafson	Taylor Systems Engineering. Inc.	9801 Fair Oaks Blvd., #100	Fair Oaks, CA 95628	(916) 961-3400
July Gueraneen	www.tse-inc.net	ooo i i an oano bira., n ioo	ran cano, cri coczo	fax: 961-3410
om Lunneberg, PE	Constructive Tech. Group	16 Technology Dr., #109	Irvine, CA 92618	(714) 790-0010
nfo@ctg-net.com	www.ctg-net.com/main.htm	, , , , , , , , , , , , , , , , , , ,	-,	( )
David J. Schwed	Romero Management Associates	1805 West Avenue K	Lancaster, CA 93534	(805) 940-0540
ma@as.net	www.asnet/~rma/index.htm		·	, ,
Martyn C. Dodd	Gabel Dodd/EnergySoft, LLC	100 Galli Drive, # 1	Novato, CA 94949	(415) 883-5900
upport@energysoft.com	www.energysoft.com			fax: 883-5970
im Kelsey PE, Kevin Warren	kW Engineering	360-17 <sup>th</sup> Street #100	Oakland, CA 94612	(510) 834-6420
celsey@kw-engineering.com	www.kw-engineering.com			fax: 834-6373
Patrick Nkwocha, PE	Global Tech Services	3360 Foothill Blvd., #108	Pasadena, CA 91107	(626) 583-8205
JPat@worldnet.att.net				fax: 583-8206
lames Trowbridge, PE	Trowbridge Engineering	8240 Caribbean Way	Sacramento, CA 95826	(916) 381-4753
Greg Cunningham	ESSengineering	114 Sansome St., #1201	San Francisco, CA 94104	(415) 296-9760
wc@essinc.com				fax: 784-9761
Charles Eley, T. Tathagat	Eley Associates	142 Minna Street	San Francisco, CA 94105	(415) 957-1977
nfo@eley.com	www.eley.com			fax: 957-1381

# U.S. DOE-2 ENERGY CONSULTANTS (continued)

California (continued)				
John F. Kennedy, PE	GeoPraxis, Inc.	205 Keller Street	Petaluma, CA 94952-3874	(707) 766-7010
info@geopraxis.com	www.geopraxis.com			fax: 766-7014
Chandra Shinde, PE	Envirodesign Group	19613 El Camino Esplanade	Walnut, CA 91789-2138	(909) 598-1980
Colorado				
Fred Porter	Architectural Energy Corp	2540 Frontier Ave, #201	Boulder, CO 80301	(303) 444-4149 fax: 444-4304
Or. Ellen Franconi ellenf@schiller.com	Schiller Associates www.schiller.com	1401 Walnut Street, #403	Boulder, CO 80302	(303) 440-4343 fax: 440-6644
Paul Reeves	PRC	140 South 34 <sup>th</sup> Street	Boulder, CO 80303	(303) 499-8611
Susan Reilly denver@enermodal.com	Enermodal Engineering	1554 Emerson Street	Denver, CO 80218	(303) 861-2070 fax: 830-2016
Colorado				
Charles Fountain	Burns & McDonnell www.burnsmcd.com	8055 E. Tufts Avenue, #330	Denver, CO 80230	(303) 721-9292
Joel Neymark, PE neymarkj@qwest.net	J. Neymark & Associates	2140 Ellis Street	Golden, CO 80401	(303) 384-3672 fax: 384 9427
Norm Weaver, PE n_weaver@interwvr.com	Interweaver Consulting www.interwvr.com	P.O. Box 775444	Steamboat Springs, CO 80477	(970) 870-1710
Connecticut				
Adrian Tuluca swa@swinter.com	Steven Winter Associates www.swinter.com	50 Washington Street	Norwalk, CT 06854	(203) 857-0200 fax: 852-0741
District of Columbia				•
Kurmit Rockwell, PE	XENERGY, Inc., Suite 1110 www.xenergy.com	1025 Connecticut Ave., N.W.	Washington, DC 20036	(202) 872-1626
Florida				
Philip Wemhoff wemhoff@netzero.net	9765 MacArthur Court North		Jacksonville, FL 32246	(904) 645-5342
Dr. Paul Hutchins PE,CEM	Reynolds Smith & Hills, Inc. www.rsandh.com	4651 Salisbury Road	Jacksonville, FL 32256	(904) 279-2277 fax: 279-2491
Georgia				
Lung-Sing Wong, PE swong@bpe-inc.com	Building Performance Engineers www.bpe-inc.com	3060 Wanda Woods Drive	Atlanta, GA 30340	(770) 270-0100
Glenn L. Bellamy gbellamy@heery.com	Heery International, Inc. www.heery.com	999 Peachtree St., N.E.	Atlanta, GA 30367-5401	(404) 946-2208 fax: 875-1283
Ilinois				-
Gary H. Michaels, PE	G.H. Michaels Associates	1512 Crain Street	Evanston, IL 60202	(847) 869-5859

# U.S. DOE-2 ENERGY CONSULTANTS (continued)

		· · · ·		
Illinois (contiinued)				
Robert Henninger, PÉ	GARD Analytics, Inc.	1028 Busse Highway	Park Ridge, IL 60068-1802	(847) 698-5686
rhenninger@gard.com	www.gard.com		-	
Kansas			•	•
Dr. Brian A. Rock, PE	A/E Dept, Marvin Hall	University of Kansas	Lawrence, KS 66045-2222	(785) 864-3603
barock@ukans.edu				( /
Massachusetts	·		-	<u> </u>
C. Kalasinsky PE, T.Chan	R.G. Vanderweil Engrs., Inc.	274 Summer Street	Boston, MA 02458-1113	(617) 423-7423
5. Halasilisty : 2, 1.5.ha	www.vanderweil.com		200.0, 02.000	fax: 423-7401
Mark Mullins	HEC Energy & Design Services	24 Prime Parkway	Natick, MA 01760	(508) 653-0456
mmullins@hecenergy.com	www.hecenergy.com			fax: 653-0266
Michael Andelman	JRMA & Associates	421 Watertown St.	Newton, MA 02210	(617) 964-8889
andelman@jrma-ae.com	www.jrma-ae.com			fax: 964-7881
Missouri				
Mike Roberts	Roberts Engineering Co.	11946 Pennsylvania	Kansas City, MO 64145	(816) 942-8121
Bruce A. Leavitt, PE	Wm. Tao & Associates Inc.	2357-59 <sup>th</sup> Street	St. Louis, MO 63110	(314) 644-1400
Montana			•	•
Michael W Harrison, PE	Harrison Engineering	139 Bluebird Lane	Whitehall, Montana 59759	(406) 287-5370
Nebraska				•
Philip M. Schreier, PE	Farris Engineering	11239 Chicago Circle	Omaha, NE 68154-2634	(402) 330-5900
FEI-OMA@worldnet.att.net	www.nebraska.org/4/4/01/00/co.htm	•		fax: 330-5902
New York				·
Robert E. Gibeault	PB Power, Inc.	1873 Western Avenue #201	Albany, NY 12203	(518) 862-0012
gibeault@pbworld.com	www.pbworld.com		•	fax: 862-1608
J. Fireovid, K. Yousef	SAIC Energy Solutions Div.	1 Marcus Boulevard	Albany, NY 12205	(518) 458-2249
Dave Pruitt, Scott Frank	www.saic.com Jaros, Baum & Bolles www.jbb.com	80 Pine Street	New York, NY 10005	(212) 530-9300
H. Henderson	CDH Energy Corporation	P.O. Box 641	Cazenovia, NY 13035	(315) 655-1063 or
henderson@cdhenergy.com	www.cdhenergy.com	(132 Albany Street)		(315) 655-1058
S. Carlson carlson@cdhenergy.com	•			, ,
North Carolina				
Gopal Shiddapur, PE	DukeSolutions (MC: ST05A)	230 S. Tryon Street, # 400	Charlotte, NC 28202	(704) 373-4439
gsshidda@duke-energy.com	duke-energy.com		2	fax: 373-4872
Hank Jackson, PE	R, C, & I Engineering Services Inc.	P.O. Box 675	Weaverville, NC 28787-0675	(704) 691-0785
hzjackson@juno.com	5 5			fax: 658-0474

# U.S. DOE-2 ENERGY CONSULTANTS (continued)

Oregon				
Carol Gardner gems@teleport.com	Gardner Energy Management Services	PO Box 12549	Portland, OR 97212-0549	(503) 223-4847 fax: 223-8486
John P. Karasaki, P.E. john_karasaki@pgn.com	Portland General Electric	121 SW Salmon Street MC: 1WTC0706	Portland, OR 97204	(503) 464-7803 fax: 464-2485
Pennsylvania				•
Kimberly Byk wba@utcorp.com	WB&A, Inc.	829 Meadowview Road	Kennett Square, PA 19348	(610) 347-0710 fax: 347-0711
Texas				
Jeff S. Haberl jhaberl@esl.tamu.edu	Energy Systems Laboratory esl.tamu.edu	Texas A&M University	College Station., TX 77843-3123	(409) 845-6065
Virginia		- <del>-</del>	•	
Dave Walker walkeng@swva.net	Walker Engineering www.swva.net/walkeng	P.O. Box 366	Staffordsville, VA 24167	(540) 921-4544 fax: 921-4548
Washington		_	·	
Steve Byrne byrne@item.com	ITEM Systems, suite 344 www.halcyon.com/byrne/item.htm	321 High School Road NE	Bainbridge Island, WA 98110	(206) 855-9540
Gregory J. Banken, PE gbanken@qmetrics.com	Q-Metrics, Inc. www.qmetrics.com	P.O. Box 3016	Woodinville, WA 98072-3016	(425) 825-0200 fax: 825-0136