2008 Energy Analysis Vendor's Directory

The Vendor's Directory is designed to let readers know about some of the choices available for energy analysis tools. The first portion consists of a brief description about each company's software and services as submitted by the company. Following is an extensive list of more vendors compiled by ConnectPress. ConnectPress would like to thank the participating vendors, Abraxas Energy Consulting, Alaska Housing Finance Corporation, Architectural Energy Corporation, EQUA Simulation AB, Flomerics, Good Steward Software, HEED (Architects at UCLA) and Integrated Environmental Solutions (IES).

Abraxas Energy Consulting

At Abraxas Energy Consulting, we are responding to the evolving *energy challenges* of our world in dramatic ways.

Renewable energy and greenhouse gas accounts are becoming a strong market force and Abraxas is creating new ways of measuring, evaluating, and accounting for the benefits of both energy savings and alternative energy generation.

1. We provide energy audits of existing buildings to help building owners discover and quantify potential energy savings.
2. We find utility billing errors and better utility rates for our customers.
3. We provide measurement and verification services for energy service companies.
4. We process utility bills for our customers and present them online.
5. We sell and support energy software management programs, such as EnergyCap, Metrix4 and NorthWrite.

Since 2001, Abraxas Energy Consulting has provided its clients with solid experience and know-how. We work with over one hundred schools, government agencies and private companies on projects of all sizes. We provide you with the expertise and software tools you need to best help you manage your energy usage. Experience, objectivity, and commitment to your satisfaction set us apart from our competition.

www.abraxasenergy.com

Alaska Housing Finance Corporation

AkWarm Energy-Rating Software: Alaska Housing Finance Corporation (AHFC) released AkWarm in 1996 as a software tool for builders, designers, energy raters, lenders, and homeowners. The software can be used for energy design, retrofit, or to determine an energy rating. AkWarm also accesses a wide range of Alaska-specific databases for weather, fuel, utility, and material costs in more than 200 locations. On-screen calculators and input wizards make data entry simple and accurate.

AkWarm will allow the user to create house data files, analyze energy use and calculate design heat load, make changes to the description of any energy component, compare energy performance and energy costs and compute the savings of individual energy-conservation measures.

AkWarm is Certified to Show Compliance with the State of Alaska's Building Energy Efficiency Standard (BEES), the Municipality of Anchorage's heat loss calculations, eliminating the need for additional energy analysis. AkWarm is accepted by the following organizations for their energy-efficiency financing programs, AHFC, FHA, VA, Fannie Mae and Freddie Mac

www.ahfc.state.ak.us/reference/akwarm.cfm

Architectural Energy Corporation

Architectural Energy Corporation (AEC) is a leading business-to-business energy engineering firm focused on buildings, energy, and the environment. Professional services offered include energy, daylighting and sustainable design consulting; commissioning; energy audits and retrocommissioning; research and development; and program management. Our clients — building owners and managers, architects, engineers, utilities, and energy service companies — rely on AEC to commission, retrocommission, or conduct diagnostic testing of building energy systems ranging from HVAC, lighting, and controls to distributed and renewable energy generation to refrigeration and commercial kitchen equipment. With over 25 years of experience, AEC helps improve the performance — energy efficiency, comfort, indoor air quality, equipment durability and reliability — of new and existing buildings.

AEC is also the developer of energy analysis tools including VisualDOE™ Energy Analysis Software; REM/Design™ and REM/Rate™ Residential Energy Analysis, Code Compliance, and Rating Software; ENFORMA® Building Diagnostics for continuous and automated performance analysis of HVAC system components; the EnergyPro™ Logger; and the MicroDataNet Wireless Data Acquisition system.

www.archenergy.com.

EQUA SIMULATION AB

EQUA SIMULATION AB develops and sells IDA Indoor Climate and Energy (IDA ICE), a whole-building simulator allowing simultaneous performance assessments of all issues fundamental to a successful building design: form, fabric, glazing, HVAC systems, controls, light, indoor air quality, comfort, energy consumption etc.

It has a unique structure making it the ideal choice for the time-constrained or inexperienced user, yet it is likely to be the most advanced and flexible building performance simulation tool available.

www.**equa**.se

Flomerics

Flomerics provides software and consultancy services to predict and optimize airflow, temperature and contamination control in and around buildings of all types and sizes. Typical applications include data centers and IT rooms, clean rooms, auditoriums, shopping malls, office buildings, underground car parks, passenger comfort in vehicles & terminals, air quality and contaminant control in laboratories, research facilities and

hospitals. Flomeric's FLOVENT and EFD software is tailored for building designers, with an easy-to-use menu system developed specially for the design and optimization of heating, ventilating and air-conditioning (HVAC) systems.

www.flomerics.com

Good Steward Software

Good Steward Software, based in State College, PA, publishes the best-selling energy efficiency software called EnergyCAP. EnergyCAP is used by clients for enterprise-wide energy tracking, auditing, utility bill payment processing, energy management reporting and more. For environmentally-responsible organizations, Greenhouse Gas emissions tracking and reporting, "green credit" tracking and an interface with the U.S. EPA ENERGY STAR benchmarking program are available. EnergyCAP is deployed in client server, client desktop or online versions. With over 800 clients, EnergyCAP tracks more than $3 Billion in energy spending annually. EnergyCAP is the established market leader and software of choice for prominent business, government and educational organizations.

www.energycap.com

HEED (Home Energy Efficient Design)
Architects at UCLA have developed HEED (Home Energy Efficient Design), a free user friendly design tool that helps home builders, contractors, and designers create more energy efficient homes. It was developed by the Energy Design Tools Group at the UCLA Department of Architecture and Urban Design.

http://www.aud.ucla.edu/heed

Integrated Environmental Solutions (IES)
IES performance modeling addresses the zero-carbon challenges faced by today's architects and engineers – that of designing comfortable buildings that consume significantly less energy and incorporate low-carbon and renewable technologies.With IES's <Virtual Environment> or <VE> designers can navigate their way to the optimum solution right from the start, ensuring energy efficiency is built-in before the design is too far progressed. With such tools it becomes easy to meet the 2030 challenge and your LEED targets.

With its direct link to Autodesk Revit Architecture and MEP, data import is simple, quick and easy. Then the <VE> suite of integrated simulation tools gives designers the performance data they need to understand the thermal, light and airflow interactions within buildings that effect energy consumption and comfort levels.

The IES <VE> Toolkits, exclusive to Revit users, are ideal for use at early schematic stages as they leverage elements of the full capabilities of the <VE> to provide quick assessments of energy and carbon usage, daylight and solar performance. At later stages

the full <VE> provides detailed analysis, tackling elements such as HVAC performance, detailed solar shading and code and regulation compliance. IES's software is the most respected energy analysis package in the world.

www.iesve.com

For more energy analysis products and services visit:
1D-HAM/Building Physics http://www.buildingphysics.com/
ACADS-BSG Pty Ltd Barbara Kingston http://www.acadsbsg@ozemail.com.au
AFT Mercury T Glassen http://www.aft.com
Appropriate Designs http://www.hydronicpros.com
ArchiPhysics http://www.archiphysics.com
Architectural Energy Corporation http://www.archenergy.com/
Association for Energy Affordability, Inc. http://www.aeanyc.org
Autodesk http://www.autodesk.com
Bentley Systems http://www.bentley.com
Building Systems Design http://www.bsdsoftlink.com
Center for Energy and Processes http://www-cenerg.ensmp.fr/english/themes/
CIT Energy Management AB http://www.bv2.nu/
CSTB (French Center for Building Sciences) http://kheops.champs.cstb.fr/Simbadhvac/
Danish Building and Urban Research http://www.bsim-support@dbur.dk
Danish Building Research Institute http://www.en.sbi.dk/
Degelman Engineering Group, Inc. http://pages.suddenlink.net/enerwin/
Department of Mechanical Engineering http://www.esru.strath.ac.uk
DesignBuilder Software Ltd Dr Steve Potter http://www.designbuilder.co.uk
E4tech S.ï¿½r.l http://www.lesosai.com/
EcoTect/c/o Centre for Research in the Built Environment http://www.squ1.com
Ecotope, Inc.
EDSL Ltd http://212.23.11.237/default.htm
Eindhoven University of technology http://sts.bwk.tue.nl/hamlab/
Elite Software Info Contact http://www.elitesoft.com
EnerCADII/University of Geneva http://www.enercad.ch
EnerComp, Inc/Micropas6 http://www.micropas.com/
Energovent http://www.energovent.com/english/main/index.php
Energy and Technical Services
Energy Studies in Buildings Laboratory http://www.aaa.uoregon.edu
Enerpass http://www.enermodal.com
EnerSys Analytics Inc. http://www.energyprofiletool.com
Equinland Limited   http://www.solacalc.com
EZDOE http://www.elitesoft.com
Florida Solar Energy Center http://energygauge.com/usares/default.htm

Florida Solar Energy Center http://www.fsec.ucf.edu/en/
Fraunhofer http://www.smilenet.de
Gabel Dodd/EnergySoft Inc http://www.energysoft.com
Green Building Studio/Geopraxis Inc. http://www.geopraxis.com
HAP - Carrier Corporation http://www.carrier.com
Interagency Software Info Contact http://www.interenergysoftware.com/
Interenergy Software http://www.interenergysoftware.com/
ISET e V http://www.iset.uni-kassel.de/pvcad
IZUBA Energies http://www.izuba.fr
Kahl Consultants http://www.kahl.net/solarch
Lawrence Berkeley National Laboratory http://simulationresearch.lbl.gov/
Lund Institute of Technology http://www.derob.se
Massachusetts Institute of Technology http://designadvisor.mit.edu/design/
MC2 Engineering Software http://www.mc2engineeringsoftware.com/
National Renewable Energy Laboratory http://www.nrel.gov/homer
Natural Resources Canada http://ee4.com/
Natural Resources Canada http://www.sbc.nrcan.gc.ca/software_and_tools/hot2000_e.asp
NewQUICK http://www.newquick.com/
Oak Ridge National Laboratory
http://www.ornl.gov/sci/engineering_science_technology/cooling_heating_power/
Oarsman Corporation http://www.oarsman.com
Olof Granlund Oy
Pacific Northwest National Laboratory http://www.pnl.gov/feds/
Performance Systems Development Inc. http://www.treatsoftware.com
Physibel http://www.physibel.be
Power Measurement/Schneider Electric http://www.pwrm.com/products/IONEnterprise/
RIUSKA
Solar Energy and Building Physics Research Lab http://www.epfl.ch
Solar Energy Laboratory http://sel.me.wisc.edu/trnsys/
Stellar Processes, Inc. http://www.ezsim.com
Strusoft AB http://.vip.strusoft.com
Sustainable Buildings Industry Council http://www.sbicouncil.org/store/e10.php
TAC http://www.tac.com
Technische Universiteit Eindhoven http://www.bwk.tue.nl/bps/hensen/courseware/Class-mod+sim/sim_theory.htm
Trane Company/System Analyzer http://www.trane.com/commercial/software
U S Department of Energy http://www.energyplus.gov
VisualDOE http://www.archenergy.com/products/visualdoe/
VTT Building Technology http://www.vtt.fi
Wrightsoft Corporation http://www.wrightsoft.com/