



Utah Energy Update

Utah Energy Conservation Coalition/Energy Rated Homes of Utah

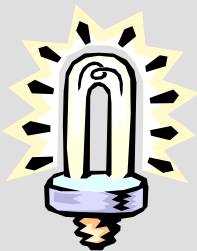
1st Quarter 2005 / Vol. 9:1

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We've moved again!
Please make note of our
new address:

UECC/ERHU
112 S Mtn Way Drive
Orem, Utah 84058-5118.
phone at 801-765-0034 or
800-550-8322.



Take A Virtual Tour of an Energy-Efficient House

Today, we're going to tour an "energy-saving" virtual home, but the home can be yours if you follow the advice. The key lesson from this Web site is that you need to take a whole-house approach to energy efficiency rather than making a few improvements. All the parts of your home interact to form a complete system.

You can buy the most efficient air conditioner on the market. But if your house has leaky ducts, inadequate insulation, poorly sealed windows or other major problems, you're not going to achieve the potential savings.

The virtual home is on the Web site of the Department of Energy's Energy Efficiency and Renewable Energy division. This feature of the site gives you a neat way to look at your entire home, focus on the things that consume energy and consider options for reducing energy use.

Energy use dominates the way we live; there are many things we do every day that have strong impacts on energy consumption, but we don't think about them.

The Web site looks at everything from computers and ductwork to appliances and solar energy. Move your mouse over the 3-D cutaway of a house, and a number of energy-and-buying tips appear.

Take dishwashers, for example. You'll find out that the average machine uses about 700 to 850 kilowatt hours of electricity each year. But about 80 percent of this energy heats the water that is needed rather than being used to operate the machine. Energy-efficient models can cut the water use in half, which will cut your energy use substantially. That's why it is so important to read the yellow EnergyGuide labels before buying a dishwasher and compare the energy use of various choices.

The Web site will give you suggestions for features to look for as well as tips to save money (such as selecting the "no heat-drying option" to allow dishes to air-dry). You'll also find links to stores that sell energy-efficient products, a shopping guide and Consumer Reports appliance ratings.

Check out the site at www.eere.energy.gov; search Virtual Home and click on the EERE Virtual Home document.

Sweeping Changes to the 2003 International Energy Conservation Code

The International Codes Council (ICC) recently approved significant changes to the 2003 International Energy Conservation Code (IECC). These changes were designed to simplify the prescriptive path and create a robust performance path of the residential 2003 IECC (the national model code that is the basis for many state energy codes). These changes eliminate the window-to-wall ratio requirement in the prescriptive path and authorize certification in "beyond code" programs to demonstrate compliance with the code. The changes are in the 2004 Supplement to the International Codes at www.iccsafe.org.

Energy Star® News

Carbon monoxide is a colorless and odorless gas. Every year more than 100 people in the United States die from unintentional exposure to carbon monoxide associated with consumer products.

The U.S. Environmental Protection Agency suggests that if you suspect that you are experiencing carbon monoxide poisoning, get fresh air immediately. Open windows and doors for more ventilation, turn off any combustion appliances, and leave the house. You could lose consciousness and die from carbon monoxide poisoning if you do nothing. It is also important to contact a doctor IMMEDIATELY for a proper diagnosis. Remember to tell your doctor that you suspect carbon monoxide poisoning is causing your problems. Prompt medical attention is important.

Proper attention and maintenance of combustion appliances in the home is most important in reducing the risk of carbon monoxide poisoning. A carbon monoxide detector can provide added protection, but is no substitute for proper use and upkeep of potential carbon monoxide sources. No detector is 100% reliable, and some individuals may experience health problems at levels of carbon monoxide below the detection sensitivity of these devices. See also - the Consumer Product Safety Commission's **Carbon Monoxide Detectors Can Save Lives: Safety Alert:** Discusses how (CO) detectors can save your life describes the symptoms of CO poisoning - www.cpsc.gov/cpsc/pub/pubs/5010.html ..\exitepa.htm ..\exitepa.htm(CPSC Document #5010).

If you have questions about carbon monoxide or other indoor air quality concerns, call the [Indoor Air Quality Information Clearinghouse \[IAQINFO\]](#) at 1-800-438-4318, or write them at IAQ INFO, P.O. Box 37133, Washington, DC 20013-7133 or via e-mail at: iaqinfo@aol.com.

Utah Greenergy Program News

The major Utah Sustainability Program currently available encourage a "whole-systems" approach to residential construction through design and building techniques to minimize environmental impact and reduce the energy consumption of building construction while contributing to the health of its occupants.

These Utah Sustainability Programs strive to be recognized as strong consumer driven programs that work to educate and change how the public views sustainability, the environment, energy and resource efficiency. These programs are innovative, flexible, and adaptable to all areas and regions. Please visit our website for new and updated information and links at www.utahenergy.org under Sustainability Program.

UPCOMING EVENTS

HOME ENERGY RATER TRAINING

March 21-25, 2005

May 23-27, 2005

August 15-19, 2005

October 3-7, 2005

Announced on our website www.utahenergy.org and to be held at 112 S Mtn Way Drive, Orem, Utah. Phone or email if you have questions at 801-765-0034 or cris@utahenergy.org.

Around The Office

Get to know the Utah Energy Conservation Coalition by reviewing upcoming staff biographies on our website www.utahenergy.org under Inside UECC/ERHU.

Utah Energy Conservation Coalition Board of Trustees:

Bernell Loveridge-President

Marci Milligan-Vice President

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David A Wilson

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HERS Coordinator

Mark Eldredge

Energy Code Specialist

Brenda Argyle

Technical Assistant

Sponsors:

Advanced Thermal Solutions (ATS)

ATS Systems help lower energy costs, while increasing the overall value of the building to the consumer.

CertainTeed Insulation

Provides many building products and materials to help lower energy costs and increase comfort.

Thank you for your support now and in the future!

New Ideas in Energy Efficiency and Green Building

Blue Jeans in the Walls

UltraTouch Cotton Fiber Insulation is made from recycled natural fibers and claims to offer a safe acoustical and thermal performance with no itch, harmful irritants or formaldehyde. The company says the material is easy to handle and is safe for people and the environment. The natural fibers used to make the insulation come from scrap denim provided by blue jeans factories. The cotton fiber insulation offers exceptional acoustic and thermal performance with no formaldehyde or harmful chemical irritants used and requires no carcinogenic warning labels. UltraTouch is Class-A fire rated and is treated with an EPA registered fungal inhibitor for additional protection against mold/mildew and pests.

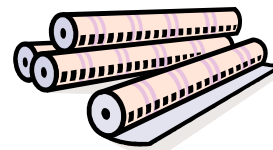


Bonded Logic, Inc., the manufacturer of UltraTouch, combines over 25 years of insulation and fiber technology experience with a patented manufacturing process to produce natural fiber insulation and padding products. www.bondedlogic.com

Energy Efficient Wallpaper

York Contract commercial wallcoverings are very durable, non-woven, vinyl materials with a special Yorkguard™ finish that offers superior printability and hangability, combined with exceptional performance. In addition to meeting or exceeding all of the U.S. government's most stringent standards for Type II classification, York Contract wall coverings offer other product benefits. www.yorkcontract.com

- Low V.O.C. Emissions – York Contract wall coverings are the only vinyl wall coverings to be certified according to EPA standards to be low in Volatile Organic Compound emissions relative to paint.
- Energy Efficient – York Contract wall coverings showed an increase in R-Value of 6.4% over paint according to independent thermal transmission test ASTM-C-518.
- Sound Absorption – With a .10 N.R.C. rating, York Contract wallcoverings have shown a significant increase in sound absorbency when measured against paint.
- Glare Reduction – York Contract wallcoverings show very low glare characteristics, and reflect significantly less light when tested against a leading brand of commercial semi-gloss paint.
- Mildew Resistant – York Contract wallcoverings received the best rating achievable according to the federal government's strict specifications.
- Fire Rating – All York Contract sidewalls and borders are Class A Flame Rated as tested in accordance with ASTM-E84 tunnel test. Specific test reports are available upon request.



Heating and Cooling With a Ceiling Fan

The Reiker Room Conditioner is an innovative new product that looks, operates and installs like a high-end ceiling fan yet safely and effectively warms rooms. The device uses four ceramic heating elements housed in the fan unit and a computer controlled transmitter that senses room temperature. Reiker claims the Room Conditioner can heat a 20 x 20-foot room using less energy than typical portable heaters and that it has been tested and verified by the United States Department of Energy. The design of this ceiling mounted heater puts the wasted warm air at your ceiling to work, pushing it down toward the floor. It then circulates the air, filtering, heating and reheating it, distributing it evenly around the room. The Reiker ceiling fan provides 150-watts of illumination while using only 30 watts of energy. www.buyreiker.com

Bacteria Zapping Light

The OZONELite air purification system uses light and a titanium dioxide-based coating to create a photo catalytic reaction that destroys microbes by disintegrating them through oxidation. The maker claims the laboratory tested system eliminates airborne pathogens such as bacteria, mold spores, fungus, viruses, smoke and odors. The Full Spectrum model promises benefits to those suffering from seasonal affective disorder. These special light bulbs are currently being used in hotels, gyms, homes and facilities to house inmates.

O•ZONELite™ www.ozonelight.com

Energy Efficiency Programs Save Power and Money

Utah Power's energy efficiency programs have helped its commercial and industrial customers save money and improve energy efficiency for more than a decade by providing for both new construction and retrofit projects. These programs, known as Energy FinAnswer, FinAnswer Express and Self-Direction Credit, provide technical expertise to identify and quantify energy saving opportunities and cash incentives to offset a portion of the implementation costs.

In general, cash incentives are available to upgrade the electric efficiency of commercial industrial heating, cooling, refrigeration, compressed air, lighting, pumping or industrial process. Incentives for qualifying premium efficiency motors are available direct from participating motor dealers listed on the FinAnswer Express page at the company's Web site. Incentives for high efficiency HVAC equipment are available to customers who submit an incentive application after purchasing and installing eligible equipment. It is important to contact Utah Power prior to ordering equipment and systems to be sure the upgrades qualify for incentives.

For very large business customers, the Self-Direction Credit program offers the opportunity to receive credits to offset the Customer Efficiency Services charge for qualified "self-investments" in efficiency and related demand side management projects.

Firms and projects utilizing these energy efficiency programs are many and varied.

Locally, BD Medical took advantage of these programs to complete three projects over three years to retrofit lighting and compressed air systems. In 2001 and 2002, BD Medical replaced more than 2,600 existing fluorescent, incandescent, metal halides and mercury vapor fixtures with more efficient fixtures. Then in 2003 the company completed upgrades to its compressor controls and air dryer system.

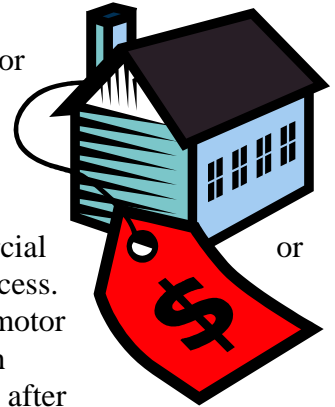
Moroni Feed Company installed a computer control system and a larger, high efficiency condenser with variable frequency drives to control the condenser fans in the turkey processing plant. While saving money on energy costs, they have also increased process reliability, reduced equipment down time, which equates to higher production, reduced compressor operating hours lowering equipment maintenance costs, lower peak summer condensing pressures and access to control system trend data and alarm features.

Camco Construction in Salt Lake City made its offices brighter and more productive and reduced lighting energy costs by more than 50 percent by undertaking a comprehensive lighting retrofit project at its office headquarters. Utah Indoor Soccer in Woods Cross used Energy FinAnswer Express to replace lighting at its facility with energy efficient T8s with electronic ballasts.

Energy savings and incentives associated with these projects not only save on monthly energy costs also decrease the payback time for such projects.

The determination of which program is best varies from customer to customer and from project to project and one or more programs may apply to a business enterprise. The programs are designed to build energy efficiency into customers' new construction and retrofit projects, help manage energy costs for business and help Utah Power better manage the energy supply in the state and keep energy rates among the lowest in the region.

For more information, and before starting an energy efficiency project, a business should contact Utah Power at the Energy Services Hotline at 800-222-4335 or via e-mail at energy.expert@pacificorp.com. Additional information is also available at www.utahpower.net. Click on the Business tab, then click on Save Energy & Money.



"We are in existence to encourage more people to use energy efficiently and to conserve while still remaining both physically and financially comfortable in their homes."

Visit us on the web: www.utahenergy.org
