



**GREEN** is everywhere. Buyers and sellers are asking real estate agents about energy and water conservation and efficiency, green building resources, healthy homes, sustainable communities, recycling and much more. More and more real estate agents recognize the need to be conversant about all aspects of **GREEN** and have asked us at Hogan School of Real Estate to provide a resource for them and

their clients to quickly and easily perform research about **GREEN** issues. This **Arizona GREEN Advisory** has been developed by Hogan School to assist licensees and their clients in this research. It is by no means totally inclusive of all **GREEN** issues and websites. It will also be continuously updated as new information is discovered.

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## **US Government Agencies**

The US government is a rich resource for **GREEN** information.

### **US Environmental Protection Agency (EPA)**

<http://www.epa.gov/>

**Green Building.** This site provides information dealing with: why build green, components of green building, building types and funding opportunities.  
<http://www.epa.gov/greenbuilding/pubs/whybuild.htm>

**Climate Change Division.** Concerned about climate change ? This site is rich with information about the many aspects of this important issue.  
<http://www.epa.gov/climatechange/ccd.html>

**Brownfields and Land Revitalization.** Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. On this site, you can find information about US EPA's Brownfields Program including the Brownfields Law, US EPA Brownfields Grants, technical tools and resources as well as information on brownfields projects across the county.

<http://epa.gov/swerosps/bf/>

## **US Department of Energy**

The DOE has a huge amount of information from the President's energy policies to simple energy saving tips and everything in between.

<http://www.energy.gov/>

**Energy Savers Booklet.** This publication contains a great deal of tips on how a homeowner can reduce energy consumption and save money.

[http://www1.eere.energy.gov/consumer/tips/pdfs/energy\\_savers.pdf](http://www1.eere.energy.gov/consumer/tips/pdfs/energy_savers.pdf)

**Energy Efficiency and Renewable Energy.** As the title states this site focuses on efficiency and renewable energy sources.

<http://www.eere.energy.gov/>

**Lose Your Excuse:** A cool web site for kids.

<http://www.loseyourexcuse.gov/index.html#>

**Energy Star.** Energy Star is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

<http://www.energystar.gov/>

**Federal Tax Credits for Energy Efficiency:**

[http://www.energystar.gov/index.cfm?c=products.pr\\_tax\\_credits](http://www.energystar.gov/index.cfm?c=products.pr_tax_credits)

**National Energy Technology Laboratory.** The National Energy Technology Laboratory (NETL), part of DOE's national laboratory system, is owned and operated by the U.S. Department of Energy (DOE). NETL supports DOE's mission to advance the The Consumer national, economic, and energy security of the United States.

<http://www.netl.doe.gov/>

**Consumer's Guide to Energy Efficiency and Renewable Energy.**

Explore your options for saving energy and using renewable energy at home, at work, in your community and while driving.

<http://apps1.eere.energy.gov/consumer/>

**Energy Efficiency Administration.** Official energy statistics from the US government.

<http://www.eia.doe.gov/>

**Office of the Environmental Executive.** Promoting sustainable environmental stewardship throughout the federal government.

<http://www.ofee.gov/>

**Bureau of Labor Statistics-Consumer Expenditure Survey.**

<http://www.bls.gov/cex/#tables>

**Energy Efficient Mortgages.** When you are buying, selling, refinancing, or remodeling your home, you can increase your comfort and actually save money by using the Energy Efficient Mortgage (EEM).

**Federal Citizen Information Center**

[http://www.pueblo.gsa.gov/cic\\_text/housing/energy\\_mort/energy-mortgage.htm](http://www.pueblo.gsa.gov/cic_text/housing/energy_mort/energy-mortgage.htm)

**HUD-FHA EEM Program**

<http://www.hud.gov/offices/hsg/sfh/eem/eemhome.cfm>

## **GREEN Building Certifications**

**Pima County, Arizona Green Building Program.** Tucson and Pima County's seven point program which approaches green building from a local, Sonoran Desert perspective.

<http://www.pimaxpress.com/Green/default.htm>

**U.S. Green Building Council (USGBC)** A non-profit community of leaders working to make green buildings available to everyone within a generation.

<http://www.usgbc.org/>

**LEED Rating Systems and Certification**

<http://www.usgbc.org/DisplayPage.aspx?CMSPageID=222>

**PowerPoint Presentations**

<http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1720>

**The Green Home Guide**

<http://www.greenhomeguide.org/>

**REGREEN Guidelines 2008**

<http://www.regreenprogram.org/>

**National Association of Home Builders (NAHB) National Green Building Program.** The National Association of Home Builders

is bringing green to the mainstream with the NAHB National Green Building Program (NAHB Green) for all home builders and remodelers.

<http://www.nahbgreen.org/>

**Green Home Building Guidelines**

<http://www.nahbgreen.org/Guidelines/nahbguidelines.aspx>

**Scottsdale, Arizona Green Building Program.** The Green Building Program encourages a whole-systems approach through design and building techniques to minimize environmental impact and reduce the energy consumption of buildings while contributing to the health of its occupants.

<http://www.scottsdaleaz.gov/greenbuilding>

## **Energy Rating Systems**

**Energy Star.** To earn the ENERGY STAR, a home must meet strict guidelines for energy efficiency set by the U.S. Environmental Protection Agency. These homes are at least 15% more energy efficient than homes built to the 2004 International Residential Code (IRC), and include additional energy-saving features that typically make them 20–30% more efficient than standard homes.  
<http://www.energystar.gov/>

**Residential Energy Services Network. (RESNET)** is a national standards making body for building energy efficiency rating systems. RESNET developed the Home Energy Rating System -**HERS rating system**.  
<http://www.natresnet.org/>

## **Arizona Utility Providers**

Most utility providers are involved in green energy projects. Electric utilities offer rebates for solar electric generation as well as net metering billing.

**The Arizona Corporation Commission:** regulates utility providers in the state. <http://www.cc.state.az.us/>

**List of Regulated Companies**  
<http://www.cc.state.az.us/divisions/utilities/utilitylist.asp>

**Statewide Electricity Provider Map.**  
<http://www.cc.state.az.us/divisions/utilities/electric/map-elect.pdf>

**Statewide Gas Provider Map**  
<http://www.cc.state.az.us/divisions/utilities/gas/map-gas.pdf>

## **Tucson & Pima County Providers**

**Tucson Electric Power**  
<http://www.tucsonelectric.com/>

**TRICO Electric Cooperative**  
<http://www.trico.coop/>

**Southwest Gas**

<http://www.swgas.com/>

**Tucson Water**

<http://www.ci.tucson.az.us/water/>

Water Plan 2,000-2,050

<http://www.ci.tucson.az.us/water/docs/waterplan.pdf>

Water Plan 2,000-2,500 Update

<http://www.ci.tucson.az.us/water/docs/wp08-update.pdf>

Rebates

<http://www.ci.tucson.az.us/water/rebate.htm>

**Phoenix Metro Area & Maricopa County Providers**

**Arizona Public Service**

<http://www.aps.com/>

**Salt River Project**

<https://www.srpnet.com/Default.aspx>

**Southwest Gas**

<http://www.swgas.com/>

**Phoenix Water Services**

<http://phoenix.gov/WATERSERVICES/>

**Scottsdale Water**

<http://www.scottsdaleaz.gov/water.asp>

**Mesa Water**

<http://mesaaz.gov/utilities/>

**Tempe Water**

<http://www.tempe.gov/waterutil/>

**Chandler Water**

<http://www.chandleraz.gov/default.aspx?pageid=369>

**Gilbert Water**

<http://www.ci.gilbert.az.us/water/>

## **Alternative Energy**

**American Solar Energy Society:** Established in 1954, the American Solar Energy Society (ASES) is the nonprofit organization dedicated to increasing the use of solar energy, energy efficiency, and other sustainable technologies in the U.S.

<http://www.ases.org/>

**American Wind Energy Association:** The mission of the American Wind Energy Association is to promote wind power growth through advocacy, communication, and education.

<http://www.awea.org/>

**PV Watts Solar Energy Calculator:** The purpose of this tool is to allow you to calculate how much energy will be produced by photovoltaic solar panels in a geographical area. It takes into account the amount of sun in the area and average electric rates. <http://www.pvwatts.org/>

**Green-e Energy:** Its mission is to bolster customer confidence in the reliability of retail electricity products reflecting renewable energy generation

<http://www.green-e.org>

**Oakland University, Michigan:** <http://www.oakland.edu/energy/>  
Wind Map [http://www.oakland.edu/energy/Wind/US\\_Wind\\_Map\\_Large.jpg](http://www.oakland.edu/energy/Wind/US_Wind_Map_Large.jpg)

## **Green Living & Working**

**Consumer Reports Greener Choices.** Offers an accessible, reliable, and practical source of information on buying “greener” products that have minimal environmental impact and meet personal needs.

<http://www.greenerchoices.org/>

**National Geographic Green Guide.** Makes living in an environmentally aware way personal, practical and positive. Intended for general consumers, GREEN GUIDE shows people how to make small changes that add up to big benefits for their wallets, for their health, and, of course, for the health of the planet. Not political or activist, the GREEN GUIDE is chock full of simple, useful ideas broken down into achievable steps that make going green a gradual and affordable process rather than an all-or-nothing plunge.

<http://www.thegreenguide.com/>

**Arizona Cooperative Extension** – Low Water Landscaping & Horticulture

<http://ag.arizona.edu/pima/>

**Tucson Green Times** A monthly newspaper dedicated to living a green lifestyle.

<http://www.tucsongreenzine.com/>

**Green Home** works to make affordable housing and its neighborhoods green.

<http://www.greenhome.org>

**American Lung Association** – Health House

<http://www.healthhouse.org/>

## **Recycling**

**Office of the Federal Environmental Executive Publication on Benefits of Recycling**

<http://www.ofee.gov/wpr/future.pdf>

**Department of Ecology, State of Washington: Composting Brochure.** A 12 page booklet explaining the benefits of and how to compost.

<http://www.ecy.wa.gov/biblio/0507031.html>

**Plastic Resin Codes.** The American Chemistry Council explains the recycling codes on all types of plastics.

[http://www.americanchemistry.com/s\\_plastics/bin.asp?CID=1102&DID=4645&DOC=FILE.PDF](http://www.americanchemistry.com/s_plastics/bin.asp?CID=1102&DID=4645&DOC=FILE.PDF)

**Benefits of Recycling.** Form Californians Against Waste this site contains detailed explanations of the many benefits of recycling.

[http://www.cawrecycles.org/living\\_green/benefits\\_of\\_recycling](http://www.cawrecycles.org/living_green/benefits_of_recycling)

### **Tucson Recycling**

<http://www.azrecycles.gov/#links> and <http://www.tucsonrecycles.org/>

### **Phoenix Recycling**

<http://phoenix.gov/GARBAGE/recycle.html>

### **Waste Management Think Green**

<http://www.thinkgreen.com/>

**Alameda County Waste Management Authority.** Great information on recycling.

<http://www.stopwaste.org/home/index.asp>

## **Household Products**

**Shaklee.** Biodegradeable household products for green living.

<http://www.shaklee.com/index.shtml>

**AFMSafecoat** Develops high quality and non-toxic paints and building products. AFM safecoat states they are the leading provider of environmentally responsible, sustainable and non-polluting paints, stains, wood finishes, sealers and related green building products.

<http://www.afmsafecoat.com/>

## **Going Paperless**

**Paperless Office Review** Paperless Office Review is a resource that was created to help you educate yourself on the large number of paperless office software solutions and document management technologies available today.

<http://www.paperlessofficereview.com/>

**DocuSign** Their passion and #1 priority is to perfect the way companies of all sizes manage the process of transacting business agreements through innovative "cloud computing" technology.

<http://www.docuSign.com/>

## **Sustainability**

**Sustain Lane Index.** A people powered sustainability guide. This is a fun and informative site that rates the top 50 metropolitan areas in the US.

<http://www.sustainlane.com/>

**City of Tucson Office of Conservation and Sustainable Development.**

Collaborates with City departments, businesses, neighborhoods, and other organizations to protect and enhance the integrity of our unique Sonoran Desert ecosystem and improve the environmental quality and livability of the urban environment.

<http://www.tucsonaz.gov/ocsd/>

**Center for Neighborhood Technology.** Since 1978, Center for Neighborhood Technology (CNT) has been a leader in promoting urban sustainability.

<http://www.cnt.org/>

**Environmental Performance Index.** The EPI builds on measures relevant to two core objectives: 1. Reducing environmental stresses to human health (the Environmental Health objective); and 2. protecting ecosystems and natural resources.

<http://www.epi.yale.edu/Home>

**Walk Score.** The Walk Score mission is to promote walkable neighborhoods. We believe walkable neighborhoods are one of the simplest and most effective solutions to halt climate change, improve our health, and strengthen our communities.

<http://www.walkscore.com/>

**Development Center for Appropriate Technology (DCAT)** The Development Center for Appropriate Technology works to enhance the health of the planet and our communities by promoting a shift to sustainable construction and development through leadership, strategic relationships, and education.

<http://www.dcat.net/>

**American Institute of Architects Build and Renew Green Program**

<http://www.aia.org/rebuildandrenew>

**Forest Stewardship Council (FSC)** The Forest Stewardship Council was created to change the dialogue about and the practice of sustainable forestry worldwide. Its purpose is to coordinate the development of forest management standards throughout the different biogeographic regions of the U.S.

<http://www.fscus.org/>

**Green Seal** works with manufacturers, industry sectors, purchasing groups, and governments at all levels to "green" the production and purchasing chain.

<http://www.greenseal.org/>

**Whole Building Design Guide** is the only web-based portal providing government and industry practitioners with one-stop access to up-to-date information on a wide range of building-related guidance, criteria and technology from a 'whole buildings' perspective.

<http://www.wbdg.org/>

**McGraw Hill Construction.** McGraw-Hill Construction connects people, projects and products across the design and construction industry. From project and product information to industry news, trends and forecasts, we provide industry players the tools and resources that help them save time, money, and energy.

<http://www.construction.com/>

**Tool Base Services** – Residential Building Diagnostic Tools

<http://www.toolbase.org/>

**Sustainable Tucson.** The purpose of Sustainable Tucson is to facilitate an inclusive, dynamic community-building process that ensures economic prosperity, social vibrancy, and ecological health.

<http://www.sustainabletucson.org>

**AKA Green:** Eco friendly building center in Scottsdale whose mission is to be a catalyst of the widespread adoption of green building practices in Arizona.

<http://www.akagreen.com/index.php>

**Originate - Natural Building Materials Showroom:** Originate is a natural building materials showroom in Tucson that specializes in interior finishes that are environmentally friendly, non-toxic, durable, and made from natural and renewable resources.

<http://www.originatenbm.com/>

## Carbon Footprint Web Sites

**Earth Lab.** Consume less, live more.

<http://www.earthlab.com/>

**Conservation International.** Clean Air. Fresh Water. Abundant Resources. These are the foundations of communities around the world, the irreplaceable gifts of a healthy natural world. We're applying smart solutions to protect them

<http://www.conservation.org/Pages/default.aspx>

**Carbon Fund.** Carbonfund.org is leading the fight against global climate change, making it easy and affordable for any individual, business or organization to eliminate their carbon footprint and hastening the transformation to a clean

energy future. Carbonfund.org achieves its goals through Climate change education, carbon offsets and reductions and Public outreach  
<http://www.carbonfund.org/>

**International Energy Agency.** The International Energy Agency (IEA) is an intergovernmental organization which acts as energy policy advisor to 28 member countries in their effort to ensure reliable, affordable and clean energy for their citizens.  
<http://www.iea.org/>

**Global Footprint Network.** In 2003, Global Footprint Network was established to enable a sustainable future where all people have the opportunity to live satisfying lives within the means of one planet.  
<http://www.footprintnetwork.org/en/index.php/GFN/>

## **Buildings, Communities & Projects with GREEN Features**

### **Tucson, AZ**

**Armory Park Del Sol:** This solar home community of Armory Park del Sol has been featured on HGTV's "Dream Builders" television series, The Wall Street Journal, Arizona Daily Star newspaper, Discover Magazine, AARP Magazine, Tucson Home Magazine, Professional Builder Magazine, Tucson Lifestyle Magazine, among many others.  
<http://www.armoryparkdelsol.com/> and <http://www.terrain.org/unsprawl/13/>

**Civano:** Civano's planning integrates residential communities with shopping, workplace, school, and civic facilities essential to the daily life of the residents, as well as parks and natural open spaces vital for relaxation, enjoyment, and preservation of the area's natural landscape and heritage.  
<http://www.terrain.org/unsprawl/5/>

**Tucson Fire Station #22:** The first LEED Gold fire station in Arizona.  
[http://wsMarch.com/publicsafety\\_firestation22.htm](http://wsMarch.com/publicsafety_firestation22.htm)

**Reid Park Zoo's Conservation Learning Center:** LEED Platinum Certified.  
<http://www.tucsoncitizen.com/ss/local/104980.php>

**Grant Road Widening Project:** Planned using “Context Sensitive Solutions” this ongoing project has been sensitive to all users along the 5 mile corridor including cyclists, pedestrians, public transit riders and the handicapped.

<http://www.grantroad.info/>

## **Metropolitan Phoenix, AZ**

### **Valley Metro Light Rail**

[http://www.valleymetro.org/metro\\_light\\_rail/](http://www.valleymetro.org/metro_light_rail/)

**Green Ideas:** provides consulting and educational services in the field of Green Building. Our clients are building and business owners, architects, engineers, contractors, utility companies, green product manufacturers and other companies interested in creating business advantages through sustainability. Green Ideas has been involved with numerous green building projects.

<http://www.egreenideas.com/projects.php>

### **Phoenix Convention Center**

<http://phoenix.gov/CIVPLAZA/plazaidx.html> and

<http://phoenix.gov/NEWSREL/ARCHIVE/2008/JUNE/2006leed.html>

### **Glenrosa Service Center**

<http://phoenix.gov/NEWSREL/ARCHIVE/2008/JULY/3007leeds.html>

## ***Hogan School of Real Estate, Inc. Resources***

**Hogan School Blog:** Check out the category GREEN on the Hogan Blog. Send us articles, posts & comments regarding GREEN. [www.HoganSchool.com](http://www.HoganSchool.com)

**Hogan School on Facebook™ “GREEN” Group:** Join Hogan’s Green group on Facebook™ for ongoing information, articles, posts and GREEN discussions.

[www.facebook.com](http://www.facebook.com)

**Search Hogan School on YouTube™ :** Find videos used in class and created by Hogan School such as

“Copying the American Dream” <http://www.youtube.com/watch?v=RuKlnUO0EF0>

and “How PV Solar Works.” <http://www.youtube.com/watch?v=A22LJzOvteU>