Green Building Expo Directory

September 23 & 24, 2005

Scottsdale Center for the Performing Arts

Sponsored By:
City of Scottsdale ~ City of Phoenix
& City of Tempe
Why are we doing Green Building?

The Green Building Program is designed to encourage sustainable and healthy building in homes, businesses, and institutional buildings while informing the general public of the environmental quality of the built environment. The program reflects a concern for natural resources and environmental quality in our local and mutually dependent global environment. The goal of the Green Building Program is to shift both residential and commercial building practices toward sustainable approaches that conserve not only energy, water and other natural resources, but also preserve our environment, strengthen our local economy and promote a quality of life that is enduring over time.

What is Green Building?

A green building is a whole-systems approach utilizing design and building techniques to reduce energy consumption and minimize the environmental impact of building while contributing to the health of its occupants. A green building ideally would:

- Make appropriate use of land,
- Preserve plants, animals, endangered species, and natural habitats,
- Make efficient use of limited natural resources and materials with low embodied energy
- Enhance human health for builders and homeowners,
- Use non-toxic and recycled-content materials,
- Reduce total lifetime energy usage,
- Have a positive effect and increased productivity on occupants working and living spaces,
- Be economical to build and operate, and at the end of building life,
- Demonstrate recyclability.

City of Scottsdale
Green Building Advisory Committee Members
2005/06

Michele Cohen, Chair, EQAB Member
Daniel Basinger, EQAB Chairman
Daniel Aiello, Janus II Environmental Architects
Joan Baron, Baron Studio
Nick Davis, Beck Group
Lance Donatello, Scottsdale citizen
Linda Eales, Linda Eales Design Associates
Kevin Edwards, Edwards Design Group
Lee Feliciano, Valley of the Sun Solar

Anthony Floyd, City of Scottsdale
Ronald W. Hand, E/FECT Sustainable Design Solutions
Christopher G. Harrison, Grayhawk Development
Jesse Henson, Kyocera Solar
Mary Grace Hime, Architectural Resource Team
Deelaye Lockwood, Windermere Sonoran Properties
James McCay, Scottsdale citizen
Frances Smith, Southwest Gas
Beverly Westgaard, AZ Envir. Strategic Alliance

Sub-Committee of the Scottsdale Environmental Quality Advisory Board
Dear Green Building Expo Attendees,

Welcome to the 8th annual Green Building Expo, Arizona’s premier showcase for products and services promoting responsible building while improving our environment. Thank you for joining us here in Scottsdale in celebrating a sustainable way of life. Each of you, by attending today’s event, makes a difference and changes the direction of growth and development in our shared neighborhoods. On behalf of the Green Building Expo Committee, the City of Scottsdale, the City of Phoenix and the City of Tempe, let me congratulate you for becoming part of our community.

We should all put forward a special thanks to the cities of Scottsdale, Phoenix and Tempe for their continuing efforts supporting these important environmentally progressive technologies. Their combined vision recognizing the tremendous benefits achieved by sharing the knowledge of these important products and processes will bestow long lasting returns. By providing the critical personnel and resources, they open a valuable pathway to a more sustainable future.

Together, let’s celebrate the great achievements by the Cities including the City of Scottsdale’s Green Building (LEED™) Policy for new city buildings and remodels, the newly approved Green Remodeling Guidelines, and the award bestowed by the Valley Forward Association for the McDowell Sonoran Land Trust (MSLT) in Scottsdale which won top honors – the President’s Award – in Valley Forward’s 25th Annual Environmental Excellence Awards program, Arizona’s oldest and most prestigious environmental competition.

By your attendance here today, you support these new, innovative methods and promote critical change in the direction of our valley’s future environment. Your interest in innovative alternative construction is the key to implementing industry change for the advantage of all of our families.

Thank you, and enjoy our show!

Sincerely,

Kevin Edwards, Chairman
Edwards Design Group, Inc.
Green Building Expo, 2005

Cover photos starting from top, in clockwise order:
1) Beauchief Residence (Hydrogen/Solar)
2) Baron Residence (Green Remodel)
3) Floyd Residence (Solar/Green Remodel)
4) Strata International (Foam House)
### Program Schedule

**Scottsdale Center for the Performing Arts**  
**Friday, September 23, 2005**

**Exhibit Hours:** 11:00 a.m. – 6:45 p.m.

<table>
<thead>
<tr>
<th>Time</th>
<th>Stage 2</th>
<th>1st Floor Gallery</th>
<th>2nd Floor Gallery</th>
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</thead>
</table>
| 12:00AM – 12:45AM | Common Sense and Sensibility in Architectural Design for Sustainability  
Eddie Jones, Jones Studio  
eddie@jonesstudioinc.com  
602-264-2941 | 12:00AM – 12:45AM | City of Phoenix Green Projects: The Driver Training Academy  
Brooke Bogart, Deutsch Assoc.  
BBogart@2929.com  
602-840-2929 | 12:00AM – 12:45AM | Energy, Climate Responsive Architecture, and Building Commissioning  
Ray Alfini and James Bochat, Pro Services  
ray.alfini@pro-services-az.com  
602-437-8110 |
| 1:00 – 1:45PM | Green City Planning  
Frank Gray, General Manager  
Scottsdale Planning & Development  
FGray@scottsdaleaz.gov  
480-312-2890 | 1:00 – 1:45PM | Cost and Benefits of Building Green  
Mark Wilhelm – Green Ideas  
mark@greenideas.com  
602-512-0558 | 1:00 – 1:45PM | High Performance Green Schools  
Chuck Burke, ADEQ  
cgb@ev.state.az.us  
602-771-4207  
Doug Crockett, Tucson Unified School District  
doug.crockett@tusd.k12.az.us  
520-225-4673 |
| 2:00 – 2:45PM | The Arizona Energy Picture  
Ken Clark, Director, Arizona Department of Commerce, Energy Office  
kclark@azcommerce.com  
602-771-1139 | 2:00 – 2:45PM | Paper Block as a Viable Recycled Building Material  
Barry Fuller, The Center for Alternative Building Studies  
info@livinginpaper.com  
480-968-4115 | 2:00 – 2:45PM | Cities Adopting Sustainable Design Principles  
Mohit Mehta, Elements Group  
mmehta@bnim.com  
602-326-9369 |
| 3:00 – 3:45PM | LEED™ for Homes - Arizona Pilot Green Rating Program  
Jim Hackler  
jhackler@usgb.org  
202-587-7182  
Jay Hall, USGBC – LEED for Homes  
jhall@buildingknowledge.net  
202-828-7422 | 3:00 – 3:45PM | Design and Benefits of Green Roofs  
Tom Shackelford, Arizona Cool Roof Council  
Tom Shackelford3@cox.net  
602-402-4440  
Steve Skinner, HydroTech  
marketing@hydrotechusa.com  
312-337-4998 | 3:00 – 3:45PM | Solar Technologies  
Lane Garrett, ETA Engineering  
lane@ETAEgineering.com  
480-966-1380 |
| 4:00 – 4:45PM | City of Scottsdale Green Projects: Scottsdale Senior Center  
Jan Lorant, Gabor Lorant Architects  
janl@gaborlorant.com  
602-667-9090  
Chuck Skidmore, City of Scottsdale  
cskidmore@scottsdaleaz.gov  
480-312-7606  
Dan Worth, City of Scottsdale  
dworth@scottsdaleaz.gov  
480-312-2776 | 4:00 – 4:45PM | Natural Earth Plasters and Recycled Paving Materials  
Dennis Hopper, The Hopper Company  
jenifer@hopperfinishes.com  
602-273-1338  
Jeff Schneider, Terra Pave  
jlscneider18@aol.com  
602-684-3865 | 4:00 – 4:45PM | Arizona Resource Exchange  
Rob Barnett, Arizona Environmental Strategic Alliance  
robb@pingolf.com  
602-687-5255 |
### Program Schedule

**Scottsdale Center for the Performing Arts**
Saturday, September 24, 2005

*Exhibit Hours: 9:00 a.m. – 4:30 p.m.*

<table>
<thead>
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<th>Stage 2</th>
<th>1st Floor Gallery</th>
<th>2nd Floor Gallery</th>
</tr>
</thead>
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| 11:00AM – 11:45AM | **Green Home Remodeling Guidelines**  
Anthony Floyd, City of Scottsdale  
Affloyd@scottsdaleaz.gov  
480-312-4202  
Richard Zimmerman, Arizona Sunshine  
asunpub@msn.com  
602-956-5888 | **Understanding Low and Zero VOC (volatile organic compounds) paints, adhesives, and other new technologies**  
Ian Ornstein, Innovative Technologies  
ian@innovativeformulations.com  
520-628-1553 | **New Alternative Air Cooling Technologies for home and office: Getting the most cooling for your dollars**  
Shields Fair, Alter-Air Corp.  
alteraircorp@yahoo.com  
480-966-1280 |
| 12:00 – 12:45PM | **Overview of Eco-friendly, Healthy and Sustainable Building Products**  
Jeff Frost, AKA Green  
info@akagreen.com  
480-946-9600  
Anne Bertino, AKA Green  
anne@akagreen.com  
480-946-9600 | **Water Use It Wisely: Rebates & Incentives to Conserve Water**  
Elisa Klein, City of Scottsdale  
Eklein@Scottsdaleaz.gov  
480-312-5670  
Karen Warner, City of Scottsdale  
Kwarner@scottsdaleaz.gov  
480-312-5659  
Mary Lu Nunley, City of Phoenix  
mary.lu.nunley@phoenix.gov  
602-534-3950 | **Where’s the Sun?**  
Dan Aiello, Janus II Environmental Architects, Arizona Solar Center  
J2EnvArch@aol.com  
602-952-8192 |
| 1:00 – 1:45PM | **Designing for the 21st Century: Why green and sustainable? What does it have to do with Growth & Cars**  
Tony Brown, ECOSA Institute  
brown@ecosainstitute.org  
928-541-1002 | **Ponds in the Desert: Creating Micro-Climates and Eco-Systems with Fountains & Swimming Pools**  
Barbara & Paul Holdeman, The Pond Gnomes  
pondgnome@cox.net  
623-572-5607 | **Solar Incentives and Grid-tie Photovoltaic Systems**  
Lee Feliciano, Valley of the Sun Solar  
lee@valleyofthesunsolar.com  
602-300-850  
Jesse Henson, Kyocera Solar  
hensonarch@earthlink.net  
602-430-4264 |
| 2:00 – 2:45PM | **Arizona’s First Solar/Hydrogen House: Self-powered House of the Future Today**  
Brian Beaulieu, Sustainable Engineering  
Beaulieu2005@mac.com  
480-797-4472 | **Weaving together plants, animals, soils, water and people into a productive community**  
Don Titmus, Permaculture Guild  
fdpc@4dirs.com  
480-962-6353  
Greg Peterson, Permaculture Guild  
fdpc@4dirs.com  
480-962-6353 | **Graywater Systems: Saving Money and Water**  
Paul Decker, Eco-Tec  
480-216-4447 |
| 3:00 – 3:45PM | **Rainwater Harvesting: Collecting and Storing Rainwater for Everyday Use**  
Heather Kincade-Levario, Forgotten Rain  
hklevario@forgotten.com  
602-550-9316  
Jo Miller, City of Glendale  
jmiller@glendaleaz.com  
623-930-3596 | **Competitive Solar Energy Investment: Making Money from the Sun**  
Paul Symanski, ADD Energy  
paul@addenergy.net  
602-881-1256 | **Economically Sensible Green Building**  
Kevin Edwards, Edwards Design Group  
kevin@edwardsdesigngroup.com  
602-295-9954 |
a.k.a. Green
Environmental Building Supplies
4408 N. Miller Road
Scottsdale, AZ 85251
Mick Dalrynple
480-946-9600
www.akagreen.com

Altair Air Corporation
Solar Air Conditioning
2010 E. University, #124
Tempe, AZ 85281
Shields Fair
(480) 966-1280
www.altair.com

American Solar Electric, Inc.
Solar Electric Power Systems
3008 N. Civic Center Plaza
Scottsdale, AZ 85251
Matt Shannon
(602) 725-6421
www.americanpv.com

APEX Construction Systems
Apex Polystyrene Cement Block
15930 SW 72nd Ave.
Portland, OR 97224
Robert Buddas
971-222-0006
www.apexconsys.com

Arizona International Exposition
and Centennial Project
Sustainability Exhibits & Events
6107 E. Rose Circle Dr.
Phoenix, AZ 85018
Bill Lautenbach
(480) 949-8467
azworldsfair@cox.net

ASU at the Polytechnic Campus
Environmental Technology Program
7001 E. Williams Field Rd.
Mesa, AZ 85212
Nicholas Hild
(480) 727-1304
http://etmonline.asu.edu

AZ Department of Environmental Quality
Pollution Prevention
1110 W. Washington St.
Phoenix, AZ 85007
Chuck Burke
602-771-4207
www.azdeq.gov

AZ Solar Energy Industries
Association
Solar Technologies
5056 S. 40th St., Suite C
Phoenix, AZ 85040
Sean Seltz
602-768-3260
www.arizonasolarindustry.org

Blazing Solar
Solar Hot Water, Heating and Ovens
P.O. Box 2594
Mesa, AZ 85214
Andrew Gerl
(602) 799-5942
blazingsolar@aol.com

Bonded Logic
Cotton Fiber Insulation
451 E. Ray Road
Chandler, AZ 85225
Jerry Weston
480-812-9114
www.bondedlogic.com

Casey’s Exterminators
New Construction Treatment for Termite Prevention/Control
2033 W. North Lane, Suite 19
Phoenix, AZ 85021
Trent Hicks
(602) 995-3895
www.arrowexterminators.com

Center for Alternative Building Studies, The Paper-block
843 West Elna Rae St.
Tempe, AZ 85281
Barry J. Fuller
(480) 968-4115
www.livinginpaper.org

CGI Silvercote
Solarguard-reflective Insulation
8550 N. 91st Ave., Bldg. B, Ste. 23
Peoria, AZ 85345
Kent Power
(800) 835-9354
www.silvercote.com

City of Phoenix
Engineering and Architectural Services
200 W. Washington St.
Phoenix, AZ 85003
Patricia Thomas-Whitfield
(602) 534-3950
www.phoenix.gov

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20 E. 6th St.
Tempe, AZ 85282
Bonnie Richardson
(480) 350-2775
www.tempe.gov

CL Free Water Systems
Whole House and Pool/Spa Water Treatment Chlorine and Salt Free
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Fountain Hills, AZ 85268
Bill Gilles
(480) 422-5710
www.clfree.com

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www.efbm.com

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Gerard Windstein
480-947-5286
www.ecoclean-az.com
www.healthyhomesolution.com

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www.ecoclean-az.com
www.healthyhomesolution.com

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Prescott, AZ 86303
Tony Brown
928-541-1002
www.ecosainstitute.org
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Low Odor Paints, Stains, Coatings, Specialty Cleaners, Natural Pest Control
4710 W. Camelback Rd.
Glendale, AZ 85301
John Bennett
(623) 934-3947
www.eco-safety.com

Edwards Design Group
Green Design/Build Company
8151 E Smokehouse Trail
Scottsdale, AZ 85262
Kevin or Doug Edwards
480-563-7774
www.edwardsdesigngroup.com

Enlux Lighting/Enertron
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www.enluxled.com

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www.intlwindow.com

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Scottsdale, AZ 85258
Ron Lonie
480-314-0728
www.jm.com

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General Contracting, Green Building, Metal Framing
8229 N. 53rd St.
Paradise Valley, AZ 85253
Michael Mendelsohn
(480) 695-5100
mmariza@aol.com

Mud Builders
Natural Building/General Contractor
10575 N. 114th St., Ste. 103
Scottsdale, AZ 85259
(480) 344-7727
www.mudbuilders.com

Phoenix Permaculture Guild
Sustainable Living Environments
P.O. Box 32077
Mesa, AZ 85275
Don Tittmus
(480) 962-6353
www.permaculture.net/guild

Pond Gnome, The
Organic Ponds & Watergardens
22767 N. 104th Lane
Peoria, AZ 85383
Barbi Holdeman
623-572-5607
www.pondgnome.com

Rammed Earth Solar Homes Inc.
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910 W. La Osa /P.O. Box 654
Oracle, AZ 85630
Julie Szekely
(520) 896-3393
www.rammedearthhomes.com

Rataco Corp.
Insulated Concrete Foam Wall System
7621 E. Gray Road, Ste. A1
Scottsdale, AZ 85251
Elfrida Fober
480-443-9211, X202
www.rataco.com

Reference Library, The
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Louise Rehse
602-258-7499
www.thereferencelibrary.com

Sierra Pacific Industries
Wood & Wood Clad Windows and Doors
5750 W. Roosevelt Street, Suite #5
Phoenix, AZ 85043
Scott Henson/Michael Brunson
602-233-1227
www.sierrapacificwindows.com

SRP Earthwise Energy
Renewable Energy Programs
MS PAB 355/P.O. Box 52025
Phoenix, AZ 85072
Melissa Hunsaker
(602) 236-2328
www.srpnet.com/environment

Sticks & Structures, LLC
Structural Insulated Panels
P.O. Box 4563
Scottsdale, AZ 85261
Art Phillips
480-609-8649
www.sticksandstructures.com

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SABS Composite Building System
18231 N. 66th Lane
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Carl N. Tichenor
(602) 722-9006
eaglerock2000@hotmail.com

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Tom Thor
(602) 484-7148
tthor@worldnet.att.net

Superior Ceramic Coating, Inc.
Insulated Wall Panels and Specialty Coatings
4826 N. Granite Reef Rd.
Scottsdale, AZ85251
Lonnie E. Alley
(480) 894-3311
londiegoungsc@qwest.net

Tech Block
Tech Block Building Blocks
3420 E. Shea Blvd., Ste. 200
Phoenix, AZ 85028
Lesley Sudders
(602) 953-5137
www.techblock.com

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Insulated Concrete Foam Wall System
3905 W. Van Buren
Phoenix, AZ 85009
James Esyes
480-620-9971
www.thermoblock.com
UCSC, Ltd.
Spray Polyurethane Foam Insulation,
Cool Roof Acrylic Coatings
P.O. Box 6460
Phoenix, AZ 85005
Shawn Harris
(602) 553-8000
www.buyucsc.com

US Green Building Council, AZ Chapter
Leadership in Energy Environmental Design (LEED)
7620 E. McKellips Road, Suite #4 PMB 87
Scottsdale, Arizona 85257
Douglas McCord, Programs/Events Committee Chair
(480) 990-8848
www.usgbc.org/Chapters/arizona

ValleymoftheSunSolar.com/Good Power Company Solar Energy Education & System Installation
8390 E. Via de Ventura, #F-110& 111
Scottsdale, AZ 85258
Lee Feliciano
(602) 300-8500
www.valleymofthesunnerg.com

Water Use It Wisely
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Scottsdale, AZ 85258
Elisa Klein
(480) 312-5670
www.wateruseitwisely.com

Baron Studio
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earth & clay plasters, rammed earth, handmade tile
Joan Baron - Joanbar@cox.net
602-616-0223  480-941-5411
http://www.artistsregister.com/artists/AZ535

Important Announcement
THE ARIZONA WORLD’S FAIR
August 31, 2011 to Labor Day 2012
The AZWF is a major world exposition of both profit and non-profit events and exhibits. The world’s most unique fair - it is INCLUSIVE not EXCLUSIVE with a core fair area in Phoenix metro and exhibits Statewide. YOU are invited to PARTICIPATE. Every trade and field of endeavor will be featured. Everyone’s involvement is welcomed. 40 million people are expected to attend, bringing $32 billion into Arizona. The fair’s theme is “Sustainable Living for Humanity.” Our fair will lead the World into the future.

WANT MORE INFO? azworldsfair@cox.net
Green building advocates responsible use of our natural resources in the design and construction of our built environment. Each lecture will address one of the many green building topics that demonstrate energy/resource efficient, healthy, and environmentally responsible building practices.

Each of the following lectures will take place on the 1st Thursday of the month from 7 to 9 PM at the City of Scottsdale, Community Design Studio located at 7506 E. Indian School Road (NE corner of 75th Street & Indian School Road).

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<th>Date</th>
<th>Topic</th>
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<tr>
<td>September 1, 2005</td>
<td>It’s Easy Being Green: Introduction to Scottsdale’s Green Home Rating System</td>
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<td>October 6, 2005</td>
<td>Using Reclaimed Building Materials</td>
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<td>November 3, 2005</td>
<td>Alternative Wall &amp; Roof Systems</td>
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<td>December 2, 2005</td>
<td>Natural Building Materials</td>
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<td>January 5, 2006</td>
<td>Home Improvements and Green Remodeling</td>
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<td>February 2, 2006</td>
<td>Building Science: The system approach to Energy Efficiency</td>
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<td>March 2, 2006</td>
<td>Interiors &amp; Indoor Environmental Quality</td>
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<td>April 6, 2006</td>
<td>Water Efficiency in the Sonoran Desert</td>
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<tr>
<td>May 4, 2006</td>
<td>Innovative Green Built Projects in the Phoenix/Scottsdale Area</td>
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<tr>
<td>June 1, 2006</td>
<td>To be Announced</td>
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GREEN HOME
REMODELING TIPS

Remodeling offers a great opportunity to incorporate energy and water saving techniques. This handout is meant to help you make informed decisions as you plan for the remodeling of your home.

ENERGY

- **Lighting** – use compact fluorescent bulbs. Newer fluorescent bulbs offer a soft white light that mimics a regular light bulb, yet uses 75% less energy. The best targets are 60-100W bulbs used several hours a day.

- **Appliances** – The energy cost to run appliances over its lifetime is much greater than the purchasing cost. It makes good economic sense to buy energy efficient appliances. Your refrigerator is likely the largest energy consumer in the house, so think about replacing your refrigerator if it is old. Look for Energy Star labeled appliances.

- **Water heaters** – If you don’t have an insulating blanket on your water heater, consider getting one. It will pay for itself in less than a year. If you need to replace a water heater, think about an on-demand tankless water heater. A tankless water heater does not hold any water, so it does not need to be turned down for vacations, there is no risk of failure like that of a tank heater that can spill many gallons of water and ruin your floor. They use less overall energy, since no water is kept hot in a tank. Gas tankless water heaters are generally more efficient. You will need to have your house checked to ensure your gas lines are sized properly. Whole house tankless heaters start at about twice as much in cost as a normal tanked water heater. Other possible disadvantages include limited hot water flow when there are multiple fixtures running at one time. As another alternative, consider a recirculating hot water system. This involves installing a pump to circulate hot water on a loop between the most remote plumbing fixture and the water heater. In order to conserve energy, the circulation pump only operates when hot water is required by means of an activation button or timer.

- **Windows** – South-facing windows offer a great opportunity to absorb free energy (winter sunlight) while north-facing windows provide uniform lighting throughout the year. East- and west-facing windows are subjected to intense morning and afternoon sunlight causing significant summer heat gain. Consider installing low-e double pane windows for at least the east and west windows. Look for a Solar Heat Gain Coefficient (SHGC) of 0.40 or less. As a least-cost alternative, consider exterior shading devices such as an overhang (at least 10 feet), trellis, vertical/horizontal louvers, screen wall, or vegetation such a trees.

- **Daylighting** – Consider adding natural light sources to reduce the need for artificial light. Light tubes appropriately placed and exterior shaded windows are good ways to enhance natural light with minimum heat gain in existing homes.

- **Flooring** – If you are replacing floors, consider more durable and natural surfaces such as tile, stone, cork, harvested wood (certified by the Forest Stewardship Council or Sustainable Forest Initiative), exposed stained concrete, or bamboo. Carpets are often the source of allergens and can contribute to an unhealthy indoor environment. Carpet also has no thermal mass so the floor will be warmer in the summer. Tile, stone, and exposed concrete are good retainers for coolness.

- **Insulation** – Increase the amount of insulation in your house to a minimum R-30 in the ceiling and R-13 or greater in the walls where feasible. Consider exterior wall insulation applications (outsulation) such as foam and ceramic coatings. As a least-cost alternative, consider exterior shading for sun exposed walls such as an overhang (at least 10 feet on east & west walls), vertical trellis with vines, and/or trees. Provide abundant shade around all entrances to reduce summer heat island effect. Seal doors with weather-stripping and windows with caulking.
WATER

• **Landscaping** – A majority of our water usage goes to outdoor landscaping. You can substantially reduce your water usage by replacing non-native plants and shrubs with native varieties. The native vegetation is well adapted to our arid climate and sunny days. Native plants not only require less water, but also require less maintenance once established, and often no chemicals or herbicides for protection. Native plants have built-in resistance to local pests that exotic plants do not have. Consider reseeding your lawn with a low water variety, or simply removing it altogether. See the Scottsdale Water Conservation Department resources for rebates, water guidelines and other helpful information.

• **Rainwater and Graywater** – Direct runoff water from gutters to bushes, trees, plants and other vegetation. Rainwater can be stored in cisterns and for later use (cistern must be covered to prevent algae and mosquito breeding). Gray water is also a good source for watering plants. Graywater is wastewater from washing machines, bathroom sinks, showers, and tubs. Graywater may not be sprayed or run off your property. See green building resource list for more information.

• **Appliances and Fixtures** – Leaky fixtures can account for substantial water loss. Fix leaky fixtures; replace faucets and showerheads with low flow fixtures. You can also replace your toilets with dual flush toilets that provide an optional flush control for liquid waste (uses half as much water with superior flushing performance). There are also other ultra-low flow toilets that use less than 1.6 gallon per flush. Finally, consider front-loading washing machines that use less water with better cleaning and spin-drying performance.

*Use local licensed contractors and regionally manufactured and/or extracted materials. This conserves energy wasted in transportation and supports our local economy.*

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