



The 2011 Sustainable Home and Garden Tour

part of the American Solar Energy Society's National Solar Tour

Made possible by:

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Transportation provided by NAIPTA

Event partners include the Arizona Solar Energy Association (ASEA) and the AZ Solar Center

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The Sustainable Home and Garden Tour team would like to thank all our tour participants, sponsors, building professionals, gardeners, and homeowners for sharing their knowledge and time.



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1: Willow Bend Environmental Education Center



As a great example of sustainable design, Willow Bend is the perfect kick-off location for the tour. The non-profit center has been in practice since 1978, but constructed its passive solar and strawbale building in 2002. Children and young adults in pre-K through 12th grade are introduced to the environment, science, and sustainability at the Center or in their classroom. Not only

does the Center practice sustainability in its built environment, but the organization ensures sustainability for the future by educating children, teens, and adults with field trips, family science events, teacher workshops, community events, and adult education opportunities.

Notable features:

- ◆ passive solar design
- ◆ south facing Trombe wall—traps heat during day, and transfers inside for nighttime heating
- ◆ strawbale construction/insulation
- ◆ indoor concrete flooring for thermal mass
- ◆ seven photovoltaic solar panels (1260 watts) donated by Prometheus Systems that produce 6.2 kWh per day
- ◆ blown-in fiberglass insulation ceilings
- ◆ large rainwater catchments for collection and irrigation to the landscape
- ◆ no mechanical use for heating or cooling, only in the winter do they rarely use a small wood burning stove
- ◆ native, outdoor garden for wildflowers, hummingbirds, lizards, and other wildlife
- ◆ 2002 Volkswagen Beetle nicknamed “the BioBug”—runs on biodiesel or waste vegetable oil, gets 50 miles per gallon and provides an educational opportunity for alternative fuels

Builder: Ed Dunn

Architect: Paul Moore, PWM Architect

CCSBP certified in: 2004

Visit: www.willowbendcenter.org

2: Clark Residence

This house includes two dwellings: a three-bedroom unit upstairs for an NAU professor, and a one-bedroom apartment on the ground floor for his 79-year-old mother, with a central laundry room shared by both sides. The innovative multi-generational residence saves on energy, transportation, and construction cost and footprint. This is the third sustainable project for Hope Construction, and replaces a decrepit house with a beautiful and sustainable double-dwelling.



Notable features:

- ◆ city in-fill-reduces building and city footprint
- ◆ Energy Star appliances and CFL lighting
- ◆ central mechanical room - recovers excess heat
- ◆ high-efficiency fireplaces in both units - for zonal comfort in winter
- ◆ ground-floor unit has in-floor heating
- ◆ greywater from upstairs showers is harvested and gravity-fed to downstairs toilets
- ◆ greywater from laundry is harvested for landscaping use
- ◆ clothesline in garage for drying laundry overnight and even year-round
- ◆ three rainwater barrels for collection and passive gutter distribution to vegetation
- ◆ local landscape business supplied Xeriscape vegetation (Native Plant and Seed)
- ◆ Cupola effect of upper loft designed for summer cooling
- ◆ south-facing windows and eaves designed for passive solar heat in winter
- ◆ Heat Recovery Ventilator system
- ◆ HERS energy performance completed
- ◆ SmartSiding exterior - OSB technique that creates durable siding with SFI wood
- ◆ composite decking and Rhino Sports tiles- made from recycled wood and plastic
- ◆ zero-VOC paint



Builder: Hope Construction
Designers: Tim Clark (owner) with David Carpenter and Jana Aukon Residential Design
CCSBP certified in: June 2011

3: Moore-Schmidt Residence



LEED AP Paul Moore started PWM Architect fifteen years ago in Flagstaff, and since then, has designed and created beautiful sustainable residences, including his own. PWM Architect is located next door to Moore's residence which eliminates his daily drive to work and cuts down on his car emissions.

Notable features:

- ◆ smaller and more efficient floor plan
- ◆ strawbale construction
- ◆ south facing windows for passive solar gain
- ◆ indoor thermal mass to collect solar gain and distribute heat throughout house
- ◆ CFL lighting
- ◆ daylighting strategy implemented
- ◆ efficient insulation for walls and ceiling
- ◆ Energy Performance Analysis completed
- ◆ ventilation strategy to replace mechanical cooling needs
- ◆ greywater irrigation system
- ◆ Xeriscape with no chemical pesticides or herbicides used
- ◆ low VOC finishes
- ◆ formaldehyde-free OSB (oriented strand board) sheathing—reduces need for old-growth trees
- ◆ recycled exterior siding
- ◆ blown in cellulose wall insulation—increases efficiency
- ◆ regional materials



Architect: Paul Moore, PWM Architect
Builder: Matt Robinson, Western Strawbale Builders
CCSBP certified in: 2008

4: NAU SSLUG garden



Students for Sustainable Living and Urban Gardening (SSLUG) is student group at NAU dedicated to the promotion of urban gardening and sustainable food systems. The SSLUG Garden was established in 2008 as a Master of Arts in Sustainability graduate student project. The main focus of the group is to maintain a demonstration food garden, help create a local food system on campus, and engage with the community to create an outdoor learning environment.

The garden is maintained by the Campus Organic Gardener, along with a Graduate Assistant (Sustainable Communities and Community, Culture and the Environment programs), and a core group of student and community volunteers. The garden hosts regular workdays that are open to the public, wherein participants learn about growing food in Flagstaff. Additionally, the group holds educational workshops in which participants learn specific garden-related skills such as cold frame building and composting. Community gardens like SSLUG help support local economies, decrease our dependency on fossil fuels and chemicals, and improve human and environmental health.

Notable features:

- ◆ permaculture design serves human needs without degrading environment
- ◆ native shrubs and flowers support pollinators and wildlife (birds)
- ◆ perennial herbs and climate-appropriate fruit trees
- ◆ composting system keeps kitchen/ garden waste out of the landfills and improves garden soil
- ◆ rainwater catchment system provides supplemental irrigation during Spring and Fall
- ◆ organic gardening methods: no chemical fertilizers or pesticides/herbicide use
- ◆ outdoor classroom environment engages students and Flagstaff community
- ◆ beautification of a neglected public space
- ◆ provides a social space with outdoor seating on campus



To join or find more information visit: sites.google.com/NAUSSLUG or contact: Susan Nyoka, Campus Organic Gardener, senyoka@nau.edu

5: Flory Residence

The Flory family enjoys building, and when they wanted a new home, instead of spending more by retrofitting an older house in Flagstaff, they decided to build new. But to decrease this large footprint, the family became the first in Flagstaff to participate in the U.S. Green Building Council's LEED for Homes program. To be certified as a "LEED home", the construction and final output of the residence must follow guidelines that promote efficient design according to USGBC. The family has documented their progress on Facebook and their blog, providing an excellent inside look into the sustainable building process.



Notable features:

- ◆ constructed on previously developed land—lessening the building footprint
- ◆ no chemical pesticides or herbicides used
- ◆ solar hot water system—insulated hot water lines
- ◆ low flow faucets, toilets, and showerheads
- ◆ using greywater from washing machine to water Xeriscape yard with erosion control plan
- ◆ highly insulated (R-25+) soy based spray foam walls
- ◆ Heat Recovery Ventilator system installed to bring in fresh outdoor air inside
- ◆ furnace is rated MERV 8 filtration—return locations optimized for hot air circulation from wood-stove
- ◆ water-based concrete sealants
- ◆ used Oriented Strand Board (OSB)—leftovers were chipped for mulch
- ◆ kept left over framing lumber for stove in winter
- ◆ construction waste plan implemented—recycled materials
- ◆ radon abatement strategy used to ensure healthy indoor air quality



Designers: Chris and Amy Flory, homeowners; Sara Herron, Herron Interiors; and Al Trumpp
Builder: Henderson Construction Companies
Energy Consultant: E3 Energy, LLC
Landscape architect: Jeff Stein, The WLB Group, Inc.
Follow the Flory's on Facebook: search for "Flagstaff LEED house"

6: 2011 Red Feather Strawbale Residence

Red Feather Development Group partners with American Indian nations to develop and implement sustainable solutions to the housing needs within their communities.

Founded in 1995, Red Feather works to address the fact that of the 2.5 million tribal members living on American Indian reservations, more than 60% percent lack adequate housing conditions (U.S. Department of Housing and Urban Development).



The Hopi community works alongside volunteers from around the country to construct straw bale homes for their fellow tribal members fostering greater understanding between diverse cultures. Beyond building homes Red Feather also promotes education in sustainable construction and supports tribal members on their path to home ownership.

On August 15th Red Feather started construction on the newest strawbale residence on the Hopi Reservation. This tour provides an opportunity to see a finished strawbale home as well as one still in the construction process.

Volunteers are camping on the construction site, working every day on the new strawbale home. Many strawbale homes on the Hopi reservation, like this one, feature little nooks and alcoves carved into the walls to display traditional Hopi art like Kachinas, pottery, and bows. During the tour, participants will likely to see stucco being applied to this new strawbale's walls.



7: 2010 Red Feather Strawbale



As a small, grassroots organization, Red Feather combines knowledge of sustainable building techniques with the hard work of volunteers. Here in Arizona, Red Feather has constructed six straw bale homes on the Hopi Reservation since 2005. A 4 bedroom home is completed in less than six weeks thanks to the 100 or so individuals who give their time to the each project.

Both the 2010 and 2011 strawbale homes feature:

- ◆ load bearing strawbale walls: efficient, natural insulation, fire resistant, durable (can last over 100 years if well maintained), structurally sound
- ◆ solar thermal panels
- ◆ radiant floor heat
- ◆ small and efficient living area—Red Feather straw bale homes range from 1 to 4 bedrooms with a communal living space in the middle
- ◆ a uniquely crafted “truth window” offering a peak at the straw inside the walls
- ◆ dyed concrete floor, with thermal mass to collect the radiant floor heat and provide a durable living surface
- ◆ stucco plaster finish on the interior and exterior of bale walls providing hand finished look and low maintenance protection for straw bales
- ◆ homeowner choices of low VOC paint colors
- ◆ Energy Star appliances donated by Whirlpool
- ◆ and don't forget community building! The construction of the strawbale homes on the Hopi reservation brings people from all over the U.S. to work with local Hopi residents to not only create a home, but to build better lives

At this home site you will tour a completed four bedroom home very similar to the one currently under construction. For more information, visit: redfeather.org



8: STAR School

As the first off-grid solar and wind powered charter school in the U.S., the STAR school is a great example of practicing what is taught inside the classroom. Located four miles from the Navajo Nation boundary, no power lines come to the school, so the founders, Mark and Kate Sorensen, had to find another way. The Sorensen's have plenty of experience with solar power, living on their solar powered ranch since 1990. With education extending outside the classroom, STAR school promotes a bright and sustainable future for today's youth.



Notable features:

- ◆ 100 solar panels—and as the school gets bigger, so do the panels!
- ◆ two wind turbines combined with the solar power creates over 37,000 watts of power
- ◆ wind turbines float on magnets, creating a soundless option to harvesting wind power
- ◆ solar power education in all grade levels
- ◆ education opportunities for all relations
- ◆ strawbale construction
- ◆ passive solar use
- ◆ rammed earth construction for playground and landscape
- ◆ greenhouse and hoop house to promote and educate on sustainable living systems
- ◆ permaculture design

For more information, visit: starschool.org

Builder: various

Architect: various



9: Sorensen Residence

Mark and Kate Sorensen have been long time residents of Coconino County and founded the STAR school. The couple promotes sustainable living not only at their school but also in their home and daily habits. The homeowners designed the house based on their experience with living at their solar, off grid ranch for 20 years near Grand Falls where they collected rainwater for a greenhouse and household water needs.



Notable features:

- ◆ Insulated Concrete Forms (ICF)
- ◆ greywater system for irrigation
- ◆ vegetable garden for a secure food source that also has a wind wall built around it for protection—appropriate for their climate and location
- ◆ rainwater collection system for domestic use
- ◆ earth berm built into first floor to secure home against windy climate and adds thermal mass for regulating temperatures
- ◆ inside garden for additional food source, composting
- ◆ radiant floor heating with solar thermal installation in the future
- ◆ passive solar design
- ◆ dual flush and low flow toilets
- ◆ durable materials throughout home including finished concrete floor, granite tile flooring, composite wood decking, and granite countertops
- ◆ radiant film in ceiling—aluminum film allows heat to bounce off away from the house
- ◆ 12 solar photovoltaic panels that supplies almost 100% of energy needs
- ◆ CFL lighting, low VOC paint
- ◆ gas and wood burning stove for back up heat

Designer/Builder: Mark and Kate Sorensen with Mike Eastman

10: CSA garden

In the fall of 2002, the Flagstaff Community Support Agriculture (CSA) began with a partnership with Crooked Sky Farms in Phoenix. The CSA supports the farmer growing the food directly, while participants share in the benefits of fresh, seasonal, and sustainably grown produce. The CSA market opened in November of 2009 and provides the community with access to locally and regionally produced vegetables, fruit, meats, cheeses and more. In addition to the market, the community garden provides education for neighbors, students, and passerby's. Karna Otten, the coordinator of the CSA likes that the garden helps spread the word about local sustainable food systems. Most of the time, we don't know where our food comes from. But with the CSA, we know exactly who grew it, who packaged it, and how it ended up on our plates.



Notable features:

- ◆ produce is harvested the day before or sometimes the same day you receive it, while grocery produce can take weeks from harvest to store
- ◆ seasonal produce—lowers stress on the environment that comes with growing non-seasonal produce
- ◆ variety in produce from local and regional farmers increases biodiversity and nutrient consumption profit goes directly to farmer, keeping the money in the community
- ◆ produce is found 150 miles away, instead of the average 1500 miles—lowering carbon footprint and transportation costs
- ◆ Crooked Sky Farms practices sustainable farming and is Certified Naturally grown. Other farms that CSA work with are either Organic, Pesticide free and natural or Certified Naturally grown.
- ◆ CSA fosters an appreciation for food and community
- ◆ garden features native plants and edible landscape from local garden supplier Native Plant and Seed watering of the garden occurs in evening when plants absorb the most and the least amount of water is lost
- ◆ only uses recycled or reusable bags
- ◆ CSA never throws away old produce, all waste is composted in the garden!

For more information, visit: flagcsa.com and crookedskyfarms.com

11: Northland Preparatory Academy



The newest building to be added to Northland Preparatory Academy is currently being certified by the Coconino County Sustainable Building Program. In addition to building sustainably, the charter school also teaches sustainability in its curriculum. The school services middle school and high school aged students, while incorporating all ages into elective courses. In the future, the new building will feature school gardens that will promote community among the students, as well as teach them about local food sources.

Notable features:

- ◆ rainwater run off diversion system on roof to direct water towards landscape
- ◆ native plants
- ◆ construction waste recycling program implemented
- ◆ constructed on site with little disturbing of natural habitat
- ◆ no chemical herbicides used
- ◆ automatic faucets in restrooms
- ◆ solar tubes
- ◆ rainwater collection system
- ◆ low flow faucets
- ◆ fully insulated hot water lines
- ◆ some passive solar design
- ◆ Energy Star certified indoor lighting
- ◆ durable finishes
- ◆ healthy outside air exchange system

Architect: JWA Architects, LLC

Builder: BWC Enterprises, Inc dba Woodruff Construction

Ongoing certification

12: MNA Easton Collection Center

The Museum of Northern Arizona's Easton Collection Center is home to most of the Museum's expanding collections. The building was designed to preserve special artifacts by incorporating fire suppression, temperature and humidity controls, and insect protection systems. The museum received the highest LEED rating of Platinum. The creators agree that the center provides a shining example of a collections facility that preserves the past of the Colorado Plateau and its peoples.



Photo by Michele Mountain

Notable features:

- ◆ south facing wing to maximize views and sunlight
- ◆ interior walls and floor are concrete—provides excellent thermal mass for solar collection
- ◆ continuous building envelope insulation supplies a “thermal flywheel”
- ◆ in-floor radiant heating powered by a high-efficiency gas fed broiler
- ◆ in-floor radiant cooling system powered by evaporative cooling tower
- ◆ HVAC ventilation system
- ◆ locally manufactured, stone, masonry, and concrete
- ◆ reclaimed lumber for exterior siding
- ◆ largest green living roof system in Flagstaff complete with solar tubes for daylighting
- ◆ solar panels provide around 23,000 kWh of energy per year
- ◆ minimal site disturbance during construction—preserving of natural systems and biodiversity
- ◆ water permeable pavements and living roof eliminate storm water run off
- ◆ electric vehicle charging station
- ◆ construction waste was recycled or reused

Architect: James Roberts, Roberts I Jones Associates, Inc.; Richard Cronenberger, National Park Service; Matt Crawford, Collections Conservation Consultant

Builder: Kinney Construction Services

Living roof consultant: Rana Creek Living Architecture

CCSBP certified in: 2009

13: Puente de Hozho Garden



There are two garden spaces at Puente de Hozho that are maintained by the Garden Club, Pathways Program for Native Americans, and the fourth grade classes as part of their science curriculum. The courtyard garden has numerous plots and half are planted using Native American techniques of dry farming and is supervised by Aaron Secakuku, a Puente de Hozho parent and teacher for the Pathways program. Craig Bowie is the garden club teacher sponsor and John Taylor is a master gardener and resource. The Garden Club meets every Friday all year long and includes students and parents. The fourth grade classes also works in the courtyard garden under the guidance of John Taylor and fourth grade teachers, Sarah Cayou and Flor Lozano. The Garden Club has also created a native plant garden in the front of our school in conjunction with our native animal mural painted by the entire school last year with master artist David Grandon.

Notable features:

- ◆ dry farming techniques-fits in with Flagstaff's dry climate and Arizona's lack of water by farming without irrigation and planting species that can trap and hold water
- ◆ native plant garden
- ◆ community organizing
- ◆ stable food system for northern Arizona
- ◆ requiring students to participate which creates a sustainable cycle of learning

For more information, contact Craig Bowie, teacher sponsor: cbowie@fUSD1.org



14: Izabel Street Garden

The Izabel Street Community Garden is coordinated by Flagstaff Foodlink, a non-profit organization promoting local food systems. The Izabel Street garden is part of a group of educational community gardens that invite the community to share their gardening tips, resources, and knowledge in one central place. These gardens provide food security for the community by providing access to healthy, fresh, affordable, local food. This garden was formerly a vacant lot and is now a beautiful place to grow, learn, and experiment. Izabel St. Community Garden has entered its second season with 27 individual/ family plots, seven “youth beds”, two “elder beds” and several communal plots. Not only does the Izabel Street garden provide a local food source, but it brings the community together.



Notable features:

- ◆ composting system
- ◆ companion planting
- ◆ organic gardening practices—no synthetic fertilizers or pesticides
- ◆ water conservation—mulching, adding organic materials, and low water use crops
- ◆ drought resistant annuals and native/arid climate perennials
- ◆ recycled materials for infrastructure
- ◆ seed saving
- ◆ socially sustainable by providing a tool shed, sliding fee scale, communal plots to share, and plant beds for elderly and youth
- ◆ saves money by limiting transport costs and grocery store trips

For more information or to get involved, visit flagstafffoodlink.com

15: Hublitz Residence

Ian Hublitz and Peter Rice of Green Mountain Construction aren't building a home for just anyone, it's for Ian's parents. The land was bought years ago and is adjacent to a historical cabin in Oak Creek Canyon. The home is equipped with a studio for the artist mother and just down the road is a family garden near the creek. Eterna Building Systems in Pima supplied the Eterna Block Insulated Concrete



Forms (ICF) to compose most of the building envelope. Made up of recycled post-consumer foam and filled-in concrete, the ICFs provide excellent durability and insulation, but proved to be a little heavy during construction. As part of this tour, the residence provides a unique opportunity to see a sustainable home in the process of construction.

Notable features:

- ◆ Eterna Block and Nudura ICFs
- ◆ Oventop vacuum tube solar domestic hot water system
- ◆ radiant in-floor heating imbedded in concrete and gypcrete to collect more heat than wood
- ◆ Heat Recovery Ventilator system to exchange heat and air throughout the house
- ◆ passive solar orientation
- ◆ spray foam and formaldehyde-free insulation in ceilings & walls
- ◆ durable metal roof & siding
- ◆ creek water irrigation
- ◆ Xeriscape yard with gutters for rainwater diversion
- ◆ reused tile from other projects for interior use
- ◆ insulated water pipes to minimize energy loss and lower costs
- ◆ recycled construction waste
- ◆ trees removed during construction were milled locally to be reused in project

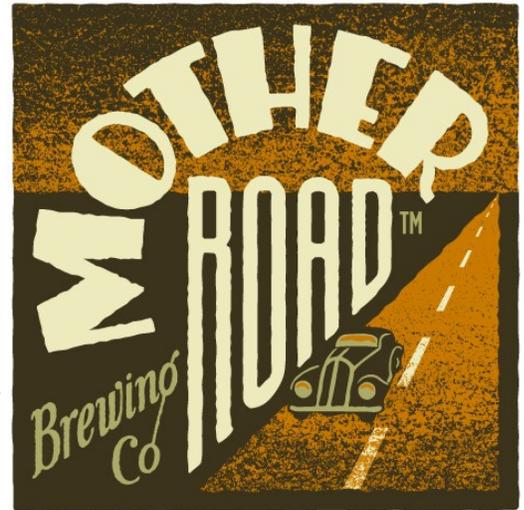
Architect: Intrinsic Architecture, Inc.

Builder: Green Mountain Construction

Ongoing certification

16: Mother Road Brewery

Mother Road Brewing Company is a locally owned and operated brewery and taproom here in Flagstaff. Their mission is “to hand craft and distribute distinguished beers with respect for history, our community, and the environment.” Most of the brewing equipment and structure was recycled and Mother Road prides itself in conserving water while brewing beer. Therefore, this is the perfect last stop on the tour, so put your feet up, relax, and enjoy a new local gathering place.



Notable features:

- ◆ fire damaged Ponderosa Pine from the Little America fire was milled and finished in Flagstaff for the bar top and rail
- ◆ local builders and sub contractors were utilized for renovations with purchases of materials in Flagstaff
- ◆ reuse of existing demolished building materials such as conduit, wood, plumbing fixtures, concrete, and pipes
- ◆ natural lighting and ventilation, reducing the need for supplemental lighting and HVAC
- ◆ window security grates were removed and utilized for brewery fencing and retail display at Flagstaff Bicycle Revolution
- ◆ durable and easy to clean materials were sourced to reduce chemical usage and labor
- ◆ brew house equipment is reused from a closed brewery
- ◆ plastic kegs are a lighter material which saves on gas during transport and is recyclable
- ◆ re-using cooling water for the next batch and re-circulating wash water to get a ratio to 4:1 water use to finished beer or less instead of the industry standard of 5:1
- ◆ spent grain is used by local farmers for feed
- ◆ Mother Road's brewery tricycle is used for transportation around downtown and at beer festivals
- ◆ a common 'bone pile' of demolition or extra materials was maintained through the construction process for use by any contractor. The unused materials were donated to other builders and the ReStore
- ◆ Brewery's public areas are fully ADA accessible



Contractor: Vance Peterson, Re-Group Performance Contracting, LLC

Owner: Michael Marquess, Chief Beer Officer

Resources

Coconino County Sustainable Building Program

The mission of the CCSBP is to educate, encourage, support and help develop sustainable and energy efficient building practices throughout northern Arizona: www.coconino.az.gov/sustainablebuilding

City of Flagstaff Sustainability Program

The Sustainability Program is dedicated to promoting sustainable living and providing practical solutions to the Flagstaff community. <http://www.flagstaff.az.gov/sustainable>

City of Flagstaff Water Conservation Program

The City of Flagstaff Water Conservation Program promotes using the City's water resources wisely and implements educational opportunities for the community. <http://www.flagstaff.az.gov/index.aspx?NID=31>

Willow Bend Environmental Education Center

The nonprofit center's mission is to provide education outreach services that build environmental awareness and an ethic of responsible stewardship of our natural and cultural resources. www.willowbendcenter.org

Northern Arizona Branch of the US Green Building Council: <http://www.usgbcaz.org>

Northern Arizona University Office of Sustainability: <http://home.nau.edu/sustain>

Northern Arizona University Sustainable Energy Solutions: <http://ses.cefns.nau.edu>

Coconino Community College Alternative Energy Technology Degree

<http://www.coconino.edu/collegecatalog/0506/AASALTENERGY.htm>

Coconino Community College Sustainable Green Building AAS Degree

http://www.coconino.edu/academics/curriculum/collegecatalog/Pages/AAS_SustainableGreenBuilding.aspx

Coconino County Sustainable Economic Development Initiative (SEDI) Energy Efficiency and Renewables Action Team

<http://www.ccsedi.org/energy.html>

Arizona Solar Energy Association: <http://www.azsolarcenter.com/solarorg/asea1.html>

American Wind Energy Association: <http://www.awea.org>

Tax Incentives-Utility Rebate Programs

Residential and non-residential rebate and incentive programs exist through utility providers such as Arizona Public Service (APS), Salt River Project (SRP), and Unisource Energy Services (UES). Please refer to their websites for information.

APS: <http://www.aps.com/main/green/choice/default.html>

SRP: <http://www.srpnet.com/environment/earthwise/solar/Default.aspx>

UES: <http://uesaz.com/Green>

Listing of State and Federal Tax Incentives

<http://www.dsireusa.org>



Don't forget to recycle this packet! Or pass it on to an interested builder, homeowner, gardener, or student!