

Sustainable Cities Network (SCN) Valleywide Meeting

September 16, 2009
Arizona State University's Memorial Union

Sustainable Cities Network

- Summer 2008-Convened by ASU's Global Institute of Sustainability (GIOS)
- Feb. 25, 2009-Introduced Valley communities to SCN at all Network Kick-off meeting
- Started with 10 cities - now includes over 20 cities, 3 tribal communities and Maricopa County

*"When we tug at a single thing in nature,
we find it attached to the rest of the world."*

John Muir

Steering Committee

City of Apache Junction – George Hoffman

City of Chandler – Jennifer Morrison

City of El Mirage – Scott Chesney

City of Glendale – Jo Miller

City of Maricopa – Nicole Dailey

City of Mesa – Scott Bouchie

City of Peoria – Maria Laughner

City of Phoenix – Tammy Perkins

City of Scottsdale – Tim Conner

City of Tempe – Bonnie Richardson

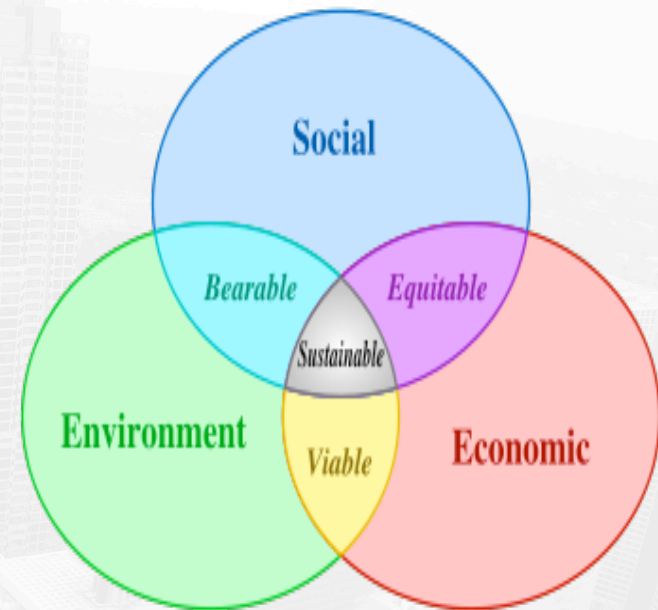
ASU Partners

Herberger Center for Design Research

Stardust Center for Affordable Homes & The Family

Created to:

- Network together local sustainability professionals
- Identify questions, opportunities and possible solutions
- Foster community and regional sustainability progress
- Enable ASU to lend expertise and to play role in local solutions
- Identify sustainability practices unique to our desert environment



Identified Network Priorities

1. Information Sharing and Capacity Building
2. Staff Development and Education
3. Coordination and Cooperation
4. Sustainability Branding, Leadership and Policy
5. Projects and Applied Research

Current SCN Activities



- Monthly meetings of Workgroups
 - Solar & Energy Efficiency
 - Best Practices
- All Network meetings–2X/year
- Creation of an online Best Practices database
- Provide speakers/info on solar technology and related topics
- Create a boilerplate solar PPA for SCN participants
- Currently a conduit for stimulus proposal information

Suggested SCN Activities for 2009-2010

Education & Outreach

- Present SCN information and activities at local conferences and meetings in 2010 (# to be determined)

Meetings & Workshops

- Continue providing solar and best practices workshops/presentations
- Provide workshops/educational presentations on topics: codes & standards; benchmarking & metrics; and streetlights/traffic signals
- Create a sustainability education workshop that each city can host to educate respective staff and residents through SCN

SCN Participation

- Survey participants to identify constraints to participation in SCN and identify ways to increase local engagement based on the survey results
- Host east and west valley meetings & expand each city's involvement in SCN by so many people
- Incorporate state government participation in network meetings and presentations
- Incorporating speakers & expertise from outside the valley into SCN presentations and topic discussions

Suggested SCN Activities for 2009-2010

Communication

- Expanding SCN website to include items such as a calendar of events for workshops & presentations; local event information; and the SCN database;
- Create a listserve
- Promote/publicize SCN's goals, activities and accomplishments

Funding

- Research and apply for grants and funding to expand and diversify our funding base
- ASU to apply for Solar America Cities-Technical Outreach grant

Working Groups

- Add 2 new sustainability topic working groups
- Build on each workgroup's projects
 - BMPs – refine database; survey participants on local sustainability plans & documents to share within network; research and establish benchmarking & ROI activities
 - Solar & EE – provide 3 presentations on water/waste water & energy discussion, and energy management; survey SCN participants on solar & renewable energy projects and distribute findings

Project/Research

- Identify a code standardization (or other type of) project for a subgroup of cities;

Opportunities on the Horizon

- ASU/Solar America Cities-Technical Outreach grant
- Water Smart Metering Workshop – AZ Department of Water Resources
- Sonoran Institute - Sustainable Code Development and Workshop Opportunity
- SOS/ASU collaborative opportunities
- Presentations – Valley of the Sun Clean Cities Coalition, Superstition Vistas and other groups
- Global Cities Indicators Facility opportunity

Current SCN Participant List

Apache Junction
Avondale
Buckeye
Carefree
Cave Creek
Chandler
El Mirage
Fort McDowell Yavapai Nation
Fountain Hills
Gila Bend
Gila River Indian Community
Gilbert
Glendale
Goodyear
Litchfield Park

Maricopa
Maricopa County
MAG
Mesa
Paradise Valley
Peoria
Phoenix
Queen Creek
Salt River Pima Maricopa Indian
Community
Scottsdale
Tempe
Tolleson
Wickenburg
Youngtown

Best Practices Database



Sustainable Cities Network

SCN Best Practices Categories

http://transformgov.org/files/SustainableCitiesNetwork/MasterBMPspreadsheet.xls - Windows Internet Explorer

http://transformgov.org/files/SustainableCitiesNetwork/MasterBMPspreadsheet.xls

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http://transformgov.org/files/SustainableCitiesNetwork/MasterBMPspreadsheet.xls

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|-------------------|-------------------------|---|---------------------|--------------------------------|--|---|---|---|--|--|--|----------------|
| | Date Last Updated | Jurisdiction or Tribe | BMP Category | Department | Topic | Practice Implemented | Success | Suggestions for Others/Lessons Learned | Return on Investment (Provide \$ details) | Save \$, Revenue Neutral, Low Cost/Payback | Hard, Moderately Easy or Easy to Implement? | Contact/Dept/Phone/Email | Project Status |
| 1 | | City of Chandler | | | | | | | | | | | |
| 2 | 4/13/09 | City of Chandler | Energy Conservation / Water Quality | Municipal Utilities | Monthly KWH tracking | Every month a report is produced which lists the electrical usage for each account. The report includes trends and comparison to previous years. | Yes, the ability to track electrical use has resulted in heightened awareness, and lowered electricity use | What gets measured gets managed? | Cost was staff time, and savings due to reduced electrical usage are greater than staff time. | Revenue Neutral. More educational than financial, but resultant conversations have lead to many projects with cost savings | Initially difficult to gather all needed data, subsequent reports are much easier. Looking into automation | Robert Goff, Municipal Utilities Department, 480-782-3663, robert.goff@chandleraz.gov | Pilot to on- |
| 3 | 2/10/09 | City of Chandler | Energy Conservation / Facilities Management | Citywide | Interior Temperature Standards | Implementing ASHRAE Standard 55 (Thermal Environmental Conditions for Human Occupancy) in all normally occupied City buildings | Declining utility bills | Upper management support and reinforcement are essential. Initially a lot of education including handing out digital thermometers | Anticipate annual savings of \$80-\$100 K through the implementation on set point of programmable thermostats | Instant cost savings | Initially Difficult, but should get easier over time. | Jennifer Morrison Sustainability Manager 480-782-2237 jennifer.morrison@chandleraz.gov | |
| 4 | 4/27/09 | City of Apache Junction | Energy Efficiency - Lighting | Public Works | Energy Conservation | Use of high efficiency lighting in City's buildings. | Performed several Facility Improvement Measures (FIMs) within the last few years to retrofit older, less efficient, lighting to newer efficient | Take advantage of free or low cost energy audits. Go for the low hanging fruit first - lighting, HVAC, shading etc. | | Save | Easy | Shane Kiesow/Public Works/480 474-8516/skiesow@ajcify.net | Project |
| 5 | 4/27/09 | City of Apache Junction | Energy Efficiency - Lighting | Public Works | Facilities Management | Use of light management control program. | Ensures deactivation of lights after hours. | Don't under estimate training and staffing needs needed to operate management system successfully. Also, software and related | N/A | Save | Moderately easy. | Shane Kiesow/Public Works/480 474-8516/skiesow@ajcify.net | Stanc |
| 6 | 4/27/09 | City of Apache Junction | Energy Efficiency - Lighting | Public Works | Energy Conservation | Use of high efficiency lighting for City's traffic signals. | Retrofitted all City traffic signals from the less efficient incandescent lamps to Light Emitting Diodes (LED). | save on utility costs but also add other capabilities to your traffic signal facilities such as the use of uninterruptable | N/A | N/A | Moderately easy. | Shane Kiesow/Public Works/480 474-8516/skiesow@ajcify.net | Project |
| | | | Energy & Energy | | | Turn off lights and equipment when not in use, Seasonal interior temperature standards, | | Upper management | | Revenue Neutral. More educational than financial, but resultant conversations | | Jennifer Morrison Sustainability Manager 480-782-2237 | |

Operations & Management Social Services & Community Energy & Energy Efficiency Environmental Management

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- ❖ Economic Development
- ❖ Green Building
- ❖ Land Use & Planning
- ❖ Transportation & Circulation
- ❖ Governance
- ❖ Management & Leadership
- ❖ Social Services
- ❖ Energy and Energy Efficiency
- ❖ Environmental Management
- ❖ Water and Wastewater
- ❖ Waste Management

We'd Like to Hear From You!

- What questions, challenges or opportunities exist that SCN should consider?
- What is your community doing in the way of sustainability that SCN and other communities should be aware of?
- What could SCN provide that would be value to your community and sustainability efforts?

Sustainable Cities Network

**Next Steering Committee
& Workgroup Meetings
Wednesday, October 21st**

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