Sustainable Cities Network (SCN)

Regional Approach to Sharing Best Practices

Austin Chamber of Commerce Delegation Meeting
October 27, 2009
Sustainable Cities Network

Convened by ASU’s Global Institute of Sustainability (GIOS) in summer of 2008

Tied to the overall mission and objectives of ASU and GIOS - addressing sustainability challenges locally and globally

ASU campuses & greater Phoenix are laboratories and demonstration sites for sustainability
“We are at a critical juncture in the evolution of our relationship to the environment, and universities must take the lead in addressing issues of sustainability.”

-ASU President, Michael Crow
SCN was 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
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
Introduced SCN to Valley communities at Network Kick-off meeting in February 2009

- Host all Network meetings twice a year
- Hold monthly meetings of active Workgroups
  - Solar & Energy Efficiency
  - Best Practices
  - Water & Wastewater (future)
  - Greenbuilding (future)
Current SCN Participant List

Apache Junction  Maricopa
Avondale  Maricopa County
Buckeye  MAG
Carefree  Mesa
Cave Creek  Paradise Valley
Chandler  Peoria
El Mirage  Phoenix
Fort McDowell Yavapai Nation  Queen Creek
Fountain Hills  Salt River Pima Maricopa Indian Community
Gila Bend  Scottsdale
Gila River Indian Community  Tempe
Gilbert  Tolleson
Glendale  Wickenburg
Goodyear  Youngtown
Litchfield Park  lit
SCN Website
www.sustainablecities.asu.edu
SCN Network/Meeting Information

SUSTAINABLE CITIES NETWORK
MOVING REGION TOWARD INNOVATIVE SOLUTIONS

Meetings
SCN Kickoff Meeting
February 25, 2009
Tampa, FL

Agenda

Presentations

SCN Concept Paper
SCN Focus Areas
Best Management Practices (BMP) Category list

Sustainable Solar Workshop

Download the SCN Kickoff Workshop Focus Areas Summary Report:
Other Sustainability Networks

• Tampa Bay Area Sustainability Coalition
• California Green Cities Coalition
• Grand Rapids Community Sustainability Partnership
• National Urban Sustainability Directors Network
• Austin Sustainability Network?
Current SCN Activities

- Solar and Energy Efficiency Subcommittee
- Community Sustainability Actions Subcommittee
  - Best Management Practices
Solar and Energy Efficiency

- Solar nuts & bolts
- Solar technologies
- ASU solar project – shared experiences
- Solar financing
- Power purchase agreements
Solar and Energy Efficiency

- Be a conduit for stimulus proposal/ARRA information
- ESCOs
- Sharing ideas and information
Community Sustainability Actions Subcommittee

- Database of what Cities are doing
- Sharing ideas to implement
- Presentation/Sharing/Learning Opportunities
  - Lessons from the Recession: Easy Money Saving Tips for Sustainability
  - City of Chandler Use of ICLEI
  - Web sites
### Sustainability Actions Categories

- 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

<table>
<thead>
<tr>
<th>Date Last Updated</th>
<th>Jurisdiction or Entity</th>
<th>BMP Category</th>
<th>Department</th>
<th>Topic</th>
<th>Practice Implemented</th>
<th>Success</th>
<th>Suggestions for Others/Lessons Learned</th>
<th>Return-on-Investment (Provide $ details)</th>
<th>Same-Same/Better/Low/High Cost</th>
<th>Hard, Moderately Easy or Easy to Implement</th>
<th>Contact/Dept/Ph. over/Email</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/30/09</td>
<td>City of Chandler</td>
<td>Economic Development</td>
<td>Municipal Utilities</td>
<td>Monthly AMI tracking</td>
<td>Yes, the ability to track electrical use has resulted in heightened awareness, and lowered electricity use</td>
<td>Success</td>
<td>What gets measured gets managed</td>
<td>Cost was short lived, and savings due to reduced electrical usage are greater than staff time</td>
<td>Revenue Neutral, more educational than financial, but resultant conservation has impact every year with cost savings</td>
<td>Initially difficult to gather all-needed data, subsequent reports much easier. Looking at this automation</td>
<td>Robert Ortiz, Municipal Utilities, 480-752-9093, <a href="mailto:robert.ortiz@chandler.gov">robert.ortiz@chandler.gov</a></td>
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<td>2/2/09</td>
<td>City of Chandler</td>
<td>Economic Development</td>
<td>Interior Temperature Standards</td>
<td>Implementing ASHRAE Standard 90.1 (thermal environmental controls for human occupancy) in all newly occupied City buildings</td>
<td>Energy efficiency is a key component in the design and operation of all new buildings</td>
<td>Energy Conservation</td>
<td>Support and enforcement are essential, install a lot of education, including handed out digital thermostats</td>
<td>Anticipate annual savings of $300K+ through the implementation of these projects</td>
<td>Cost savings</td>
<td>Initially difficult, but should get easier over time</td>
<td>Jennifer Morris, Sustainability Manager, 480-752-2377, <a href="mailto:jennifer.morris@chandler.gov">jennifer.morris@chandler.gov</a></td>
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<td>Energy Efficiency/Lighting</td>
<td>Public Works</td>
<td>Energy Conservation</td>
<td>Use of high-efficiency lighting in City buildings</td>
<td>Energy Efficiency/Lighting</td>
<td>Energy Conservation</td>
<td>Part of several Citywide Energy Improvement Measures (EIMS)</td>
<td>These savings are significant, lighting to lower electricity costs</td>
<td>Cost savings</td>
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<td>Jennifer Morris, Sustainability Manager, 480-752-2377, <a href="mailto:jennifer.morris@chandler.gov">jennifer.morris@chandler.gov</a></td>
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ASU Internship
Assisted with:
• Sustainable actions inventory
• Development of sustainability Web page
• Development of outreach materials
Public Education and Outreach to Community

• Web Site
• Living Green Workshop Series
  • Monthly workshops
  • Book promotion at libraries
• Monthly Sustainability Savings Tip
Solar Energy

Solar at Water Treatment Plant
Transit Oriented Development

- EECBG
- Brownfields Grant along light rail extension
Brownfield restoration

- EPA, NBA, AZ State Land
Environmental Program Improvements

• Prescription & non prescription drug disposal
Opportunities on the Horizon

- ASU/Solar American Cities-Technical Outreach grant
- Sonoran Institute – Sustainable Code Development and Workshop opportunity
- Global Cities Indicators
Sustainable Cities Network

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