Scottsdale Green Building Progress Report 2005

City of Scottsdale
Green Building Program
January 10, 2006
Green Activity Results

- Residential & Commercial Development
  - 33% of new home starts Going Green
  - growing commercial commitment
- Green Building Policy for LEED Gold
  - City Facilities
- Neighborhood Revitalization
  - Green Home Remodeling Guidelines
  - Design Day
Permit Activity

- **2005 Permits (residential & commercial)**
  - 463 green permits issued
  - 97 participating builders

- **2000 Goal**
  - reach 20% of single family permits by 2005
  - achieved 33% for 2005
Incentives

Plan Review turn-around time

- Green building plans reviewed within 3 week

<table>
<thead>
<tr>
<th>Year 2005</th>
<th>Completion Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 1 thru Mar 31</td>
<td>88.63%</td>
</tr>
<tr>
<td>Apr 1 thru Jun 30</td>
<td>92.33%</td>
</tr>
<tr>
<td>Jul 1 thru Sept 30</td>
<td>93.88%</td>
</tr>
<tr>
<td>Oct 1 thru Dec 31</td>
<td>99.66%</td>
</tr>
</tbody>
</table>
## Custom Home Permits

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Custom</th>
<th>Green Building</th>
<th>Percentage of Total Permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>766</td>
<td>15</td>
<td>1.96%</td>
</tr>
<tr>
<td>1999</td>
<td>563</td>
<td>25</td>
<td>4.44%</td>
</tr>
<tr>
<td>2000</td>
<td>521</td>
<td>41</td>
<td>7.87%</td>
</tr>
<tr>
<td>2001</td>
<td>411</td>
<td>36</td>
<td>8.76%</td>
</tr>
<tr>
<td>2002</td>
<td>384</td>
<td>29</td>
<td>7.55%</td>
</tr>
<tr>
<td>2003</td>
<td>423</td>
<td>35</td>
<td>8.27%</td>
</tr>
<tr>
<td>2004</td>
<td>471</td>
<td>72</td>
<td>15.3%</td>
</tr>
<tr>
<td>2005</td>
<td>558</td>
<td>118</td>
<td>21% (20% Goal)</td>
</tr>
</tbody>
</table>
Green Custom Home Permits

- 1998: 25.00%
- 2000: 20.00%
- 2002: 15.00%
- 2004: 10.00%
<table>
<thead>
<tr>
<th>Year</th>
<th>Total Standard</th>
<th>Green Building</th>
<th>Percentage of Total Permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>1406</td>
<td>5</td>
<td>0.36%</td>
</tr>
<tr>
<td>1999</td>
<td>991</td>
<td>11</td>
<td>1.11%</td>
</tr>
<tr>
<td>2000</td>
<td>555</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>2001</td>
<td>432</td>
<td>2</td>
<td>0.36%</td>
</tr>
<tr>
<td>2002</td>
<td>384</td>
<td>4</td>
<td>0.93%</td>
</tr>
<tr>
<td>2003</td>
<td>473</td>
<td>3</td>
<td>0.63%</td>
</tr>
<tr>
<td>2004</td>
<td>612</td>
<td>159</td>
<td>26%</td>
</tr>
<tr>
<td>2005</td>
<td>705</td>
<td>318</td>
<td>45% (10% goal)</td>
</tr>
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</table>
Green Home Remodeling

- Project guide
  - Site Use & Landscaping
  - Energy Efficiency & Renewables
  - Indoor Environmental Quality & Health
  - Water & Resource Efficiency
  - Project Types
City Resolution

* All new, occupied city buildings shall be designed, contracted and built to achieve the LEED\textsuperscript{TM} Gold certification level.

– where the payback is anticipated to be more than five (5) years, City staff is directed to recommend to the City Council which level of LEED\textsuperscript{TM} certification is appropriate for that particular project.
Scottsdale Senior Center

Scottsdale’s 1st LEED Gold city facility
Pipeline for LEED Gold Projects

- Arabia Library (LEED Silver)
- Police Forensic Lab
- Police District Station 1
- Fire Station No. 2
- Westworld Exhibit Hall
- Scottsdale Center for the Performing Arts Interior Remodel (LEED Silver)
Green Building Expo

Scottsdale Center for the Performing Arts

- Valley’s Premier Green Building Event
- 50 exhibitors
- 30 presentations
- Product & Services Directory
- 3500 attendees
- Proceeds $13,616
Design Day & Info Fair

- Co-sponsored by the Citizen & Neighborhood Resources Dept.
- Held in Coronado High School Cafeteria
- Free design consultation for South Scottsdale residents
- Remodeling information tables & exhibits
Lectures & Outreach

- Green Building Lectures
  - 1st Thursday of each month
  - avg. attendance is 40

- Solar Lectures
  - 3rd Thursday of each month
  - avg. attendance is 25
Lectures & Outreach

- Green Building List Serve
  - twice a month newsletter

- Presentations and displays
  - realtors expo, trade assoc., homeowner assoc., community groups

- Collaborations
  - Cities of Phoenix, Tempe, Tucson
  - State and county agencies
  - APS, SRP, SW Gas
  - ASU, AIA, USGBC, HBA
Residential Checklist Update

1. Site Use
2. Structural Elements
3. Building Envelope
4. HVAC & Indoor Air Quality
5. Electrical Power, Lighting & Appliances
6. Plumbing System
7. Roofing
8. Exterior Finishes
9. Interior Finishes
10. Interior Doors, Cabinetry, Trim
11. Finish Floor
12. Pools & Spas
13. Solid Waste
14. Special Options
New Developments

* Green commercial guidelines for private development
  – Sonoran Desert context

City of Scottsdale
Commercial Green Building Checklist
New Construction and Major Renovation

This checklist is designed to be a commercial counterpart to the Scottsdale Residential Green Building Program rating checklist. It is prescriptive-based and intended to address the local issues of Scottsdale in the regional context of the Sonoran Desert. Inspections, verification and certification will be administered by the city. There are four rating levels: Level 1 - Meet all prerequisites of checklist items; Level 2 - acquire 25 - 49% of checklist items; Level 3 - acquire 50 - 74% of checklist items; Level 4 - acquire 75% or more of checklist items.

<table>
<thead>
<tr>
<th>1 - SUSTAINABLE SITES</th>
<th>Documentation Required</th>
<th>Select Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 Site Selection &amp; Disturbance</td>
<td>Prerequisites:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stormwater management per Scottsdale ordinance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scottsdale Environmentally Sensitive Lands Ordinance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Plan conformance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dust control per Maricopa County regulations</td>
<td></td>
</tr>
</tbody>
</table>
Green Buildings versus Green Communities

- A green building can be unsustainable at the community level
- Urban planning framework is central to sustainability
Future Outlook

- Updated Rating Checklist, Inspection and Homeowner’s Manual
- Construction Waste Management
- Multiple Paths to Green
- Prescriptive versus Performance
- Voluntary versus Mandatory
- Development Incentives
- Integration with Regulatory Process
Green Building Program & GBAC

- Oversight by Green Building Advisory Committee
  - Program criteria, education, outreach
  - Qualification criteria & standards
  - Voluntary participation & City mandate