

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

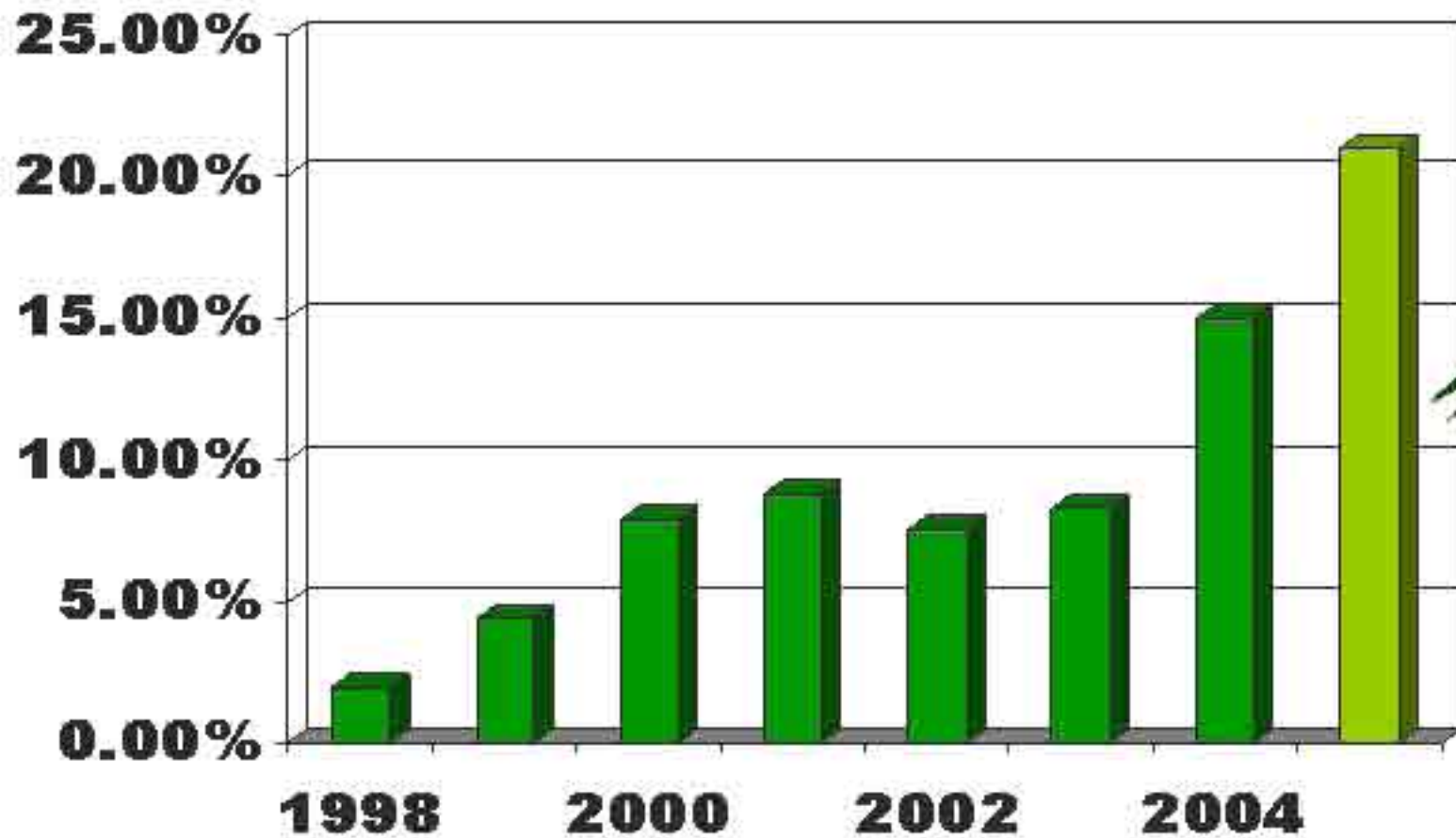
Year 2005	Completion Rate
Jan 1 thru Mar 31	88.63%
Apr 1 thru Jun 30	92.33%
Jul 1 thru Sept 30	93.88%
Oct 1 thru Dec 31	99.66%



Custom Home Permits

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

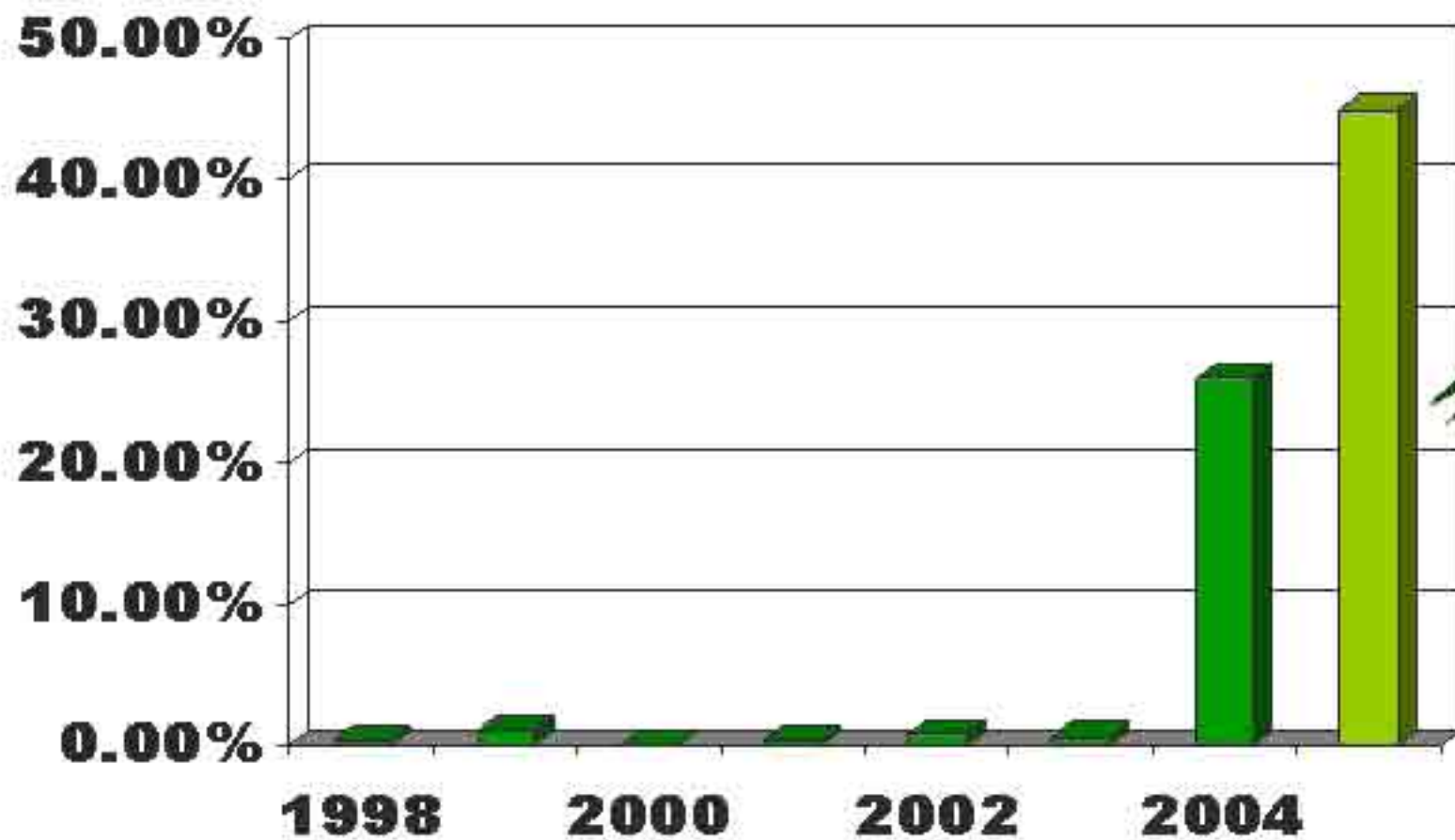
Green Custom Home Permits



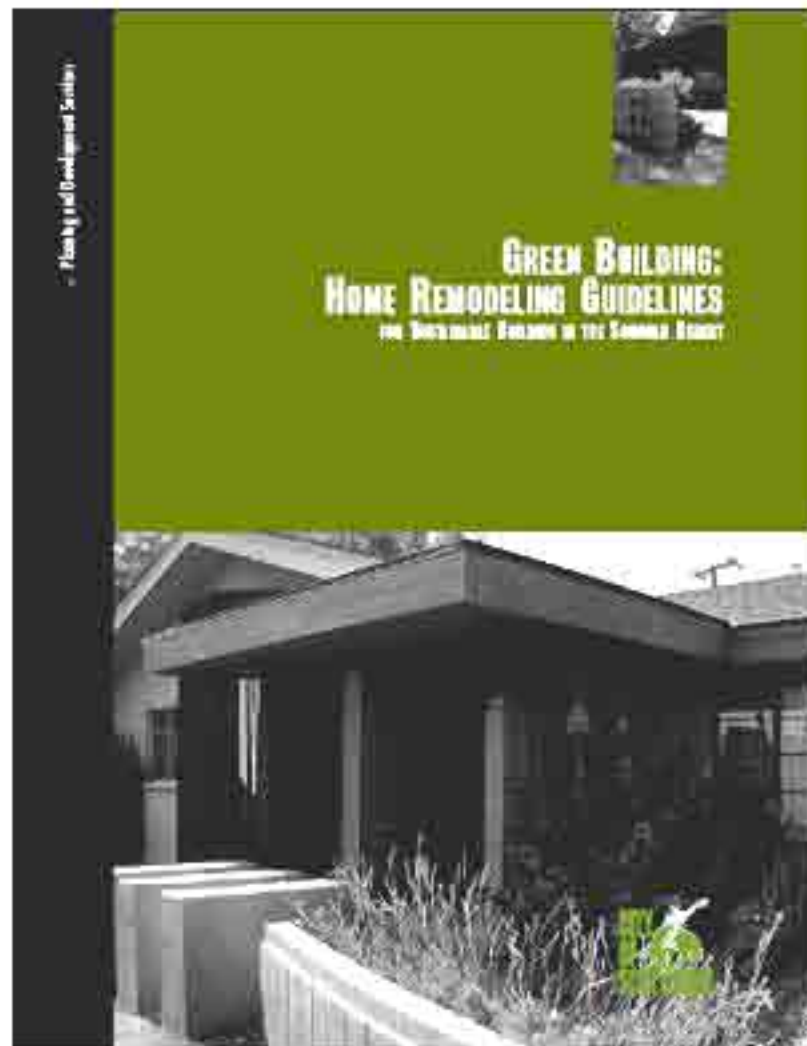
Production Home Permits

Year	Total Standard	Green Building	Percentage of Total Permits
1998	1406	5	0.36%
1999	991	11	1.11%
2000	555	0	0%
2001	432	2	0.36%
2002	384	4	0.93%
2003	473	3	0.63%
2004	612	159	26%
2005	705	318	45% (10% goal)

Green Production Home Permits



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™ 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™ 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



Volunteer Design
Professionals

- * 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

	City of Scottsdale GREEN BUILDING LECTURE SERIES Fall/Winter/Spring – 2005/2006 Scottsdale Community Design Studio 11200 E. Indian School Road, Scottsdale Attention: E. Jim
	Green building advocates responsible use of our natural resources in the design and construction of our built environment. It isn't just an add-on; it's one of the many green building topics that encompasses energy-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 11200 E. Indian School Road (off corner of 15th Street & Indian School Road).
September 1, 2005	It's Easy Being Green: Intro to Scottsdale's Green Home Rating System An overview of green building checklist requirements providing priorities, benefits, strategies, and materials compatible with our Sonoran Desert environment.
October 6, 2005	Using Recycled Building Materials Learning Towards – Learn about opportunities to build quality materials that support resource efficiency and divert waste from the landfill.
November 3, 2005	Alternative Wall & Roof Systems Resource-efficient building systems that conserve energy and preserve our natural resources.
December 1, 2005	Natural Building Materials Regional materials that are compatible with our semi-desert environment, sustain, healthy materials, and support the local economy.
January 6, 2006	Home Improvements and Green Remodeling An introduction to the newly published green remodeling guidelines. Learn about environmentally responsible and healthy remodeling practices that support sustainable remodeling.
February 2, 2006	Building Science: The system approach to Energy Efficiency Learn about the principles of how to create an energy efficient, safe, comfortable and healthy home. Hear about significant tools used to assess energy performance problems.
March 2, 2006	Indoors & Indoor Environmental Quality Indoors is where we spend the most time of our lives. This lecture will address strategies for managing indoor pollutants including material selection, ventilation and filtration.
April 6, 2006	Water Efficiency in the Sonoran Desert An overview of water efficiency practices including water-saving fixtures, water-saving appliances and landscape watering.
May 4, 2006	Innovative Green BUI Projects in the Phoenix/Scottsdale Area Learn about local innovative projects that look back to the sustainable benefits of energy efficiency, resource efficiency, water efficiency, and design integration design.
June 1, 2006	To be announced

* 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

Scottsdale Pilot Program

City of Scottsdale

Commercial Green Building Checklist New Construction and Major Renovation

Based on 2001 Pilot Program

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: <u>Level 1</u> - Meet all prerequisites of checklist items; <u>Level 2</u> - acquire 25 - 49 % of checklist items. <u>Level 3</u> - acquire 50 - 74% of checklist items; <u>Level 4</u> - acquire 75% or more of checklist items.	Documentation Required	Select Items			
1 - SUSTAINABLE SITES					
1.1 Site Selection & Disturbance					
Prerequisites: * Stormwater management per Scottsdale ordinance. * Scottsdale Environmentally Sensitive Lands Ordinance * General Plan conformance. * Dust control per Maricopa County regulations.					

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



SCOTTSDALE



GREEN BUILDING
PROGRAM

Green Building Program & GBAC

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

