

9 ● PRESERVATION & ENVIRONMENTAL PLANNING



Introduction

Preservation and Environmental Planning involve shaping a community by protecting and improving air and water quality, conserving plant and wildlife resources, reducing exposure to hazards, and maintaining natural features and the built environment. In Southern Scottsdale, the application of this planning philosophy represents an important path to making the community a more desirable place to live, work, and recreate.

As the most densely populated and mature area of the city, maintaining a healthy environment for Southern Scottsdale citizens is a priority. Management of solid wastes and superfund activities, air and water quality protection, urban heat island mitigation, energy efficiency, and renewable energy generation all impact the daily lives of area residents.

This chapter presents preservation and environmental goals and policies for Southern Scottsdale. They provide a guide for residents to increase their interaction with and conservation of the built and natural environment. The results of these efforts will protect and sustain the unique environmental qualities of Southern Scottsdale.

Goals and Policies

GOAL PE 1

PROMOTE CONSERVATION AND SUSTAINABILITY WITHIN NEIGHBORHOODS.

- **Policy PE 1.1**
Encourage green building practices, techniques, incentives, and energy efficiency programs in neighborhood development to support sustainable urban desert living.
- **Policy PE 1.2**
Respect the character of historically designated properties when undertaking energy-efficient residential improvements.
- **Policy PE 1.3**
Encourage compact development to reduce auto dependency and parking requirements, encourage multi-modal transportation options, provide open space, and facilitate pedestrian mobility.

GOAL PE 2

MITIGATE THE URBAN HEAT ISLAND EFFECT.

- **Policy PE 2.1**
Continue to examine new and reinvestment development plans to identify strategic landscape opportunities for passive building cooling and to provide shaded pavement in parking lots and on streets.
- **Policy PE 2.2**
Encourage the use of techniques that employ vegetative building roofs to decrease air pollution, energy use, and the urban heat island effect.
- **Policy PE 2.3**
Encourage the use of cool-roof technologies that employ solar coatings and materials that reflect sunlight and heat away from a building, reducing temperatures.
- **Policy PE 2.4**
Support the use of paving materials that reflect more solar energy, slow water evaporation, or remain cooler than conventional pavements.

GOAL PE 3

CONTINUE ONGOING IMPROVEMENT TO WATER MANAGEMENT AND QUALITY.

- **Policy PE 3.1**

Encourage the use of efficient technologies and new approaches to manage the use, reuse, and maintenance of water resources throughout Southern Scottsdale.

- **Policy PE 3.2**

Encourage the City of Scottsdale to continue regional collaboration efforts with providers and other jurisdictions to secure a variety of water rights and capacity for future use.

- **Policy PE 3.3**

Encourage greater use of new technologies to address the challenges and benefits of separation, treatment, and reapplication of residential and commercial grey waters.

- **Policy PE 3.4**

Manage stormwater effectively throughout Southern Scottsdale by developing more urban oriented and cost-effective retention and mitigation solutions for new and existing development.

- **Policy PE 3.5**

Continue to monitor and support Southern Scottsdale soil and groundwater remediation efforts associated with the Indian Bend Wash Superfund Site.

- **Policy PE 3.6**

Promote Southern Scottsdale water conservation by planting indigenous and adapted desert plant and tree species to reduce landscape water usage.

GOAL PE 4

IMPROVE AIR QUALITY.

- **Policy PE 4.1**

Offer multi-modal, alternative motorized, and non-motorized transportation choices such as transit, trolleys, and bicycles as a means to reduce air pollution emissions.



Chaparral Water Treatment Plant incorporates award-winning membrane filtration process.

- **Policy PE 4.2**

Support air quality efforts by limiting dust and particulate production, providing enhanced urban forestry, and participating in meeting regional air quality standard requirements.



GOAL PE 5

FOSTER ENERGY EFFICIENCY AND RENEWABLE ENERGY GENERATION THROUGHOUT SOUTHERN SCOTTSDALE.

- **Policy PE 5.1**

Undertake city and utility provided energy audits for Southern Scottsdale's existing commercial and residential buildings.

- **Policy PE 5.2**

Promote public, private, non-profit, and utility partnerships that support the upgrading of water, electrical, irrigation, and communication systems in existing homes.

- **Policy PE 5.3**

Support energy efficiency in existing homes by encouraging and educating homeowners about the benefits of practicing resource conservation.

- **Policy PE 5.4**

Encourage onsite building development to include solar and other renewable energy generation capabilities.

- **Policy PE 5.5**

Support a Net-Zero policy that requires new buildings to achieve energy efficiencies by producing and exporting at least as much renewable energy as the total energy it imports and uses each year.

- **Policy PE 5.6**

Develop appropriate design standards for renewable, on-site energy generation.

- **Policy PE 5.7**

Promote public, private, non-profit, and utility partnerships to develop funding mechanisms for establishing a Southern Scottsdale renewable energy improvement district.

- **Policy PE 5.8**

Develop an education series that utilizes an on-site renewable energy generation demonstration program.