City of South Lake Tahoe General Plan Policy Document



Natural and Cultural Resources Element

INTRODUCTION

This element provides the policy context for the City of South Lake Tahoe to achieve its vision for future natural and cultural resource protection. South Lake Tahoe is part of a unique natural and cultural environment. The city's many resources contribute to its economy and are important elements in the quality of life of South Lake Tahoe's residents. The preservation of these resources is essential for a prosperous and sustainable future. The Natural and Cultural Resources Element focuses on the preservation and enhancement of scenic, water, biological, historical and cultural, and mineral resources. The Element also addresses issues of air quality, global warming, and climate change. Goals and policies are organized under the following headings:

- Scenic Resources
- Hydrological Resources
- Biological Resources
- Archeological, Historical, and Cultural Resources
- Air Quality
- Global Warming and Energy Conservation

NATURAL AND CULTURAL RESOURCES VISION

The following is the City of South Lake Tahoe's vision for future natural and cultural resources:

"In 2030 South Lake Tahoe is a model community for its efforts to reduce greenhouse gas emissions, promote energy efficiency and sustainability, improve the health of the forest, improve air quality, and improve Lake Tahoe's water clarity and restoration. In addition to achieving regional Environmental Thresholds, South Lake Tahoe has been successful at meeting the needs of its residents while not compromising the ability of future generations to meet their own needs. The City is a leader in implementing sustainable policies and programs that have helped maintain and enhance the beauty of Lake Tahoe and the Tahoe Basin."

SCENIC RESOURCES

Scenic quality is one of South Lake Tahoe's most apparent natural resources. Views of Lake Tahoe, mountains, and forests can be seen throughout the city. The policies in this section protect the scenic quality of South Lake Tahoe's natural environment by maintaining and restoring scenic qualities, and improving visual accessibility of Lake Tahoe.



To protect and enhance the visual connection of South Lake Tahoe's and the Lake Tahoe Basin's scenic resources.

Policy NCR-1.1: View Corridors and Passive Open Space

The City shall use stream environment zone restoration and storm drainage basins to create view corridors and passive recreation open space, particularly to help relieve the strip commercial character of major roadways.

Policy NCR-1.2: Scenic Resource Design

The City shall require that siting and design of public and private spaces and buildings to protect, improve, and enhance the scenic quality of the built and natural environment and take full advantage of scenic resources through site orientation, building setbacks, preservation of viewsheds, and height limits.

Policy NCR-1.3: Class I Bike Trail Design Standards

The City shall require the design of Class I bike trails along the Lake Tahoe shoreline to not include large graded cut and fill areas that are visible from the Lake, tall vertical elements such as fences and barriers that are visible from the Lake and all vertical elements shall be made of natural materials that blend with the surroundings. Class I bike trails shall be designed to visually blend with the natural conditions and features so that the trail does not dominate views.

Policy NCR-1.4: Views of Lake Tahoe

The City should ensure that views of Lake Tahoe from vantage points along public streets or public areas are not be blocked by development. Any impairment or partial obstruction of these views from new development shall be the minimum necessary to allow reasonable development.

Policy NCR-1.5: Lake, Beach, and Vista Point Access

The City shall create more access to and better facilities at Lake Tahoe, public beaches, and vista points to better serve residents and visitors.

Policy NCR-1.6: Scenic Enhancements

The City shall encourage relocation of structures that encroach on meadows, floodplains, and stream environment zones (SEZ) in order enhance scenic viewsheds.

HYDROLOGICAL RESOURCES

South Lake Tahoe is located at the edge of Lake Tahoe, an alpine lake of great natural beauty and environmental value. Careful consideration of the relationship between water quality and water quantity is needed in light possible future water shortages due to drought and global climate change, and potential contamination of some water supplies by toxic substances. The policies in this section seek to protect South Lake Tahoe's hydrological resources.



To protect and enhance the clarity of Lake Tahoe and water quality in the area's rivers, creeks, and groundwater.

Policy NCR-2.1: Stormwater Runoff Retention

The City shall require new projects and, working with TRPA, encourage existing developed properties to retain runoff onsite wherever physically possible and economically efficient or, if not possible or efficient, to contribute to the construction and long-term maintenance of off-site water quality measures.

Policy NCR-2.2: Hazardous Materials

The City shall ensure hazardous materials do not reach Lake Tahoe, any of its tributaries, or contaminate Stream Environment Zones or groundwater resources.

Policy NCR-2.3: Stormwater Quality Management Improvement



The City shall improve stormwater quality management by including, along with other proven options, the use of swales and natural treatment systems and integration of runoff into functional design elements and public art. The City shall also incorporate the latest technologies for water quality treatment facilities into restoration efforts.

Policy NCR-2.4: "Green" Streets

The City shall investigate "green" streets as an option for improving water quality and enhancing watershed health.

Policy NCR-2.5: Pervious Materials in Parking Areas



The City shall explore the use of pervious materials for parking areas and test on some street sections. The City shall incorporate pretreatment features as part of the use of pervious materials in order to protect groundwater quality.

Policy NCR-2.6: Water Quality Improvements and Neighborhood Character



The City shall respect neighborhood character when planning and implementing water quality improvements.

Policy NCR-2.7: Water and Wastewater Management Strategy



The City shall coordinate with STPUD and other water purveyors to develop an innovative water and wastewater management strategy that considers sustainable water supply and treatment systems.

Policy NCR-2.8: Industrial and Commercial Area Protection

The City shall protect industrial and commercial areas from accidental hazardous spills or industrial site/process discharges. To this end, the City shall incorporate appropriate water protection and site-specific best management practices including pretreatment technologies, and require as part of the project review process where appropriate.

Policy NCR-2.9: Land Dedication in 100-Year Floodplains

The City shall require property owners and developers to dedicate land within 100year floodplains, conservation easements, and Stream Environment Zones (SEZ) to the City or other City-designated entity when a development project is approved.

Policy NCR-2.10: Water Pollution Education

The City shall continue to support efforts to inform the public about practices and programs to minimize water pollution.

Policy NCR-2.11: Marina Redevelopment and Expansion

The City shall ensure that redevelopment or expansion of existing marinas do not result in adverse environmental or shore-zone conditions at Lake Tahoe.

Policy NCR-2.12: Incentives to Remove Property from Steam Environment Zones and 100-Year Floodplains

The City shall provide incentives to remove public and private development from Stream Environment Zones and 100-year floodplains in order to reduce drainage problems and damage to public and private property.

Policy NCR-2.13: Minimize the Use of Fertilizers and Pesticides



The City shall implement or support education programs to inform the public and encourage behavior to reduce water pollution caused by excessive use of irrigation, fertilizers and pesticides.

Policy NCR-2.14: Pollutant Load Reduction Prioritization

The City shall prioritize water quality improvement projects based primarily on their ability to reduce pollutant loads. Higher pollutant loading rate land uses include roadways, commercial, industrial, and multi-family uses.

BIOLOGICAL RESOURCES

The biological resources in South Lake Tahoe are varied and abundant. Consequently, numerous special-status plant and wildlife species are found in South Lake Tahoe. The policies in this section preserve and protect biological resources and biodiversity, and encourage healthy habitats.



To protect, restore, and enhance biological habitats and wildlife species in South Lake Tahoe.

Policy NCR-3.1: Natural Habitat Preservation

The City shall protect, maintain, and restore key riparian areas, natural open space meadows, and Stream Environment Zones for the preservation of natural habitats.

Policy NCR-3.2: Large Scale Development Adjacent to Stream Environment Zones

The City shall minimize the impacts to Stream Environment Zones (SEZ) and sensitive habitat areas from adjacent new large-scale developments.

Policy NCR-3.3: Vegetation Preservation

The City shall preserve as much vegetation as possible on site and require revegetation for all proposed development as a condition of approval, so long as it does not conflict with adequate fire abatement.

Policy NCR-3.4: Natural Growth Protection

The City shall limit the extent of construction to provide a natural growth zone for vegetation.

Policy NCR-3.5: Neighborhood Design and the Natural Environment

The City shall design neighborhoods, sites, and buildings to help improve the natural environment.

Policy NCR-3.6: Stream Environment Zone (SEZ) Restoration and Enhancement

The City shall increase the area of naturally functioning SEZs by preserving existing SEZ and restoring/rehabilitating disturbed SEZ.

Policy NCR-3.7: "Green" Building

The City shall encourage "green" building features be incorporated into the design, construction, and operation of new construction and major renovations.

Policy NCR-3.8: Bear-Proof Trash Receptacles

The City shall require the installation of bear-proof trash receptacles in new developments, at public facilities, and at public gathering spaces and parks.

Policy NCR-3.9: Wildlife Awareness and Safety Program

The City shall develop and implement a coyote, mountain lion, beaver, and bear awareness and safety program.

Policy NCR-3.10: Stream Environment Zone Management

City shall consider stream stability, water quality objectives, fisheries and wildlife, open space, and public health and safety in maintaining or managing Stream Environment Zone (SEZ) restoration projects.

Policy NCR-3.11: Natural Habitat and Open Space Management

The City shall encourage and support public agencies formed to acquire and manage important natural habitat areas, and other open space lands.

Policy NCR-3.12: Tree Preservation

The City shall adopt a tree preservation ordinance that protects large native trees, trees with historic importance, and trees that support sensitive species and healthy forest habitat.

Policy NCR-3.13: Improving Wildlife Habitat Values

The City shall encourage the use of native or compatible non-native, non-invasive plant species as part of project landscaping to improve wildlife habitat values.

Policy NCR-3.14: Diseased Tree Removal

The City shall support awareness and removal of diseased trees to reduce the threat of urban fires.

Policy NCR-3.15: Preventing the Spread of Quagga and Zebra Mussels

The City shall support efforts to prevent the spread of the invasive Quagga and Zebra mussels into Lake Tahoe.

Policy NCR-3.16: New Development and Lake Tahoe Interactions

The City shall ensure that new development does not negatively impact beach erosion, prime fish habitat, water quality and clarity, and public needs.

ARCHEOLOGICAL, HISTORIC, AND CULTURAL RESOURCES

South Lake Tahoe has a diverse archeological and cultural history. Preservation of historic and cultural resources is important to the city's identity, and having these distinct and identifiable places tend to make the community more enjoyable places for residents and more attractive to visitors. The policies in this section seek to protect and enhance the historical and cultural amenities in South Lake Tahoe.



To preserve and maintain sites and structures that serve as significant, visible connections to South Lake Tahoe's social, cultural, and architectural history.

Policy NCR-4.1: Significant Site Preservation

The City shall preserve sites of historical, cultural and architectural significance within the city, consistent with the Secretary of the Interior Standards for Treatment of Historic Properties.

Policy NCR-4.2: Historic Landmark Designation

The City shall designate structures or sites having special character or special historic, architectural, or aesthetic interest or value as local historic landmarks. The City shall protect local historic landmarks from demolition and inappropriate alterations, and develop criteria for evaluating the appropriateness for sites or structures to be designated as local historic landmarks, and provide incentives for preservation of local historic landmarks.

Policy NCR-4.3: Archeological Investigations

The City shall require archeological investigations for all applicable discretionary projects, in accordance with CEQA regulations, for areas not previously surveyed and/or that are determined sensitive for cultural resources (e.g., undeveloped parcels near water features). The City shall require the preservation of discovered archeologically-significant resources (as determined based on TRPA, State, and Federal standards by a qualified professional) in place if feasible, or provide mitigation (avoidance, excavation, documentation, curation, data recovery, or other appropriate measures) prior to further disturbance.

Policy NCR-4.4: Paleontological Resource Evaluation

The City shall require that a paleontological resources evaluation be prepared and measures to mitigate impacts to paleontological resources be identified (avoidance, preservation in place, excavation, documentation, and/or data recovery) when fossils are discovered during ground-disturbing activities.

Policy NCR-4.5: Human Remain Discovery

The City shall require/condition projects and other ground disturbance activities to notify the City if human remains are discovered and halt work. The County Coroner will be notified according to Section 5097.98 of the State Public Resources Code and Section 7050.5 of California's Health and Safety Code. If the remains are determined to be Native American, the coroner will notify the Native American Heritage Commission, and the procedures outlined in CEQA Section 15064.5(d) and (e) shall be followed.

AIR QUALITY

South Lake Tahoe is located within the Lake Tahoe Air Basin (LTAB). Air quality concerns within the LTAB are predominantly associated with adverse effects on human health, distance visibility, Lake Tahoe water clarity, and forest health. Primary factors known to influence air quality within the LTAB include topography and climate, which can affect pollutant transport and dispersion from sources located within and outside of the LTAB. Additional air quality concerns within the Basin relate to the exposure of sensitive receptors to localized pollutant concentrations, including airborne concentrations of odors and toxic air

contaminants (TACs), as well as increases in greenhouse gas emissions. The policies in this section seek to improve air quality by reducing the number of vehicles on the roadways and encouraging walking, biking, and use of public transit.



To incorporate air quality improvements and emission reductions directly with land use and transportation planning.

Policy NCR-5.1: Pedestrian and Bicycle Facilities

The City shall encourage the use of alternative modes of transportation by encouraging public transit, neighborhood electric vehicles, bicycle, and pedestrian modes in City transportation planning and by requiring new development to provide safe and separate pedestrian circulation and adequate bikeway circulation and facilities.

Policy NCR-5.2: Employer Programs

The City shall encourage employers in South Lake Tahoe to provide bicycle facilities, alternative work schedules, ridesharing, telecommuting, work-at-home programs, employee education (including information on alternatives to single-occupancy travel), preferential parking for carpools/vanpools, and alternative transportation mode subsides.

Policy NCR-5.3: City Fleet Vehicles

The City shall replace City fleet vehicles with lowest emission technology vehicles, wherever possible.

Policy NCR-5.4: Public Transit Bus Fleet

The City shall encourage the use of low-emission technology buses in the public transit fleet.

Policy NCR-5.5: Traffic Calming Measures

The City shall install traffic calming measures where there is demonstrated need and neighborhood resident support (e.g., traffic circles, curb extensions, and median islands).

Policy NCR-5.6: Off-Peak Deliveries

The City shall encourage business owners to schedule deliveries at off-peak traffic hours.

Policy NCR-5.7: Child Safety Programs

The City shall support infrastructure and programs that encourage children to walk or ride a bicycle safely to school.

Policy NCR-5.8: Bicycle, Pedestrian, and Bus Transit Integration

The City shall encourage interconnected bicycle, pedestrian, and bus transit circulation in the design of all commercial, industrial, and multi-family housing.

Policy NCR-5.9: Mixed-Use Development 1

The City shall support appropriately located mixed-use developments that include homes, schools, civic uses, retail and commercial services, and daycare facilities within walking distance of each other.

Policy NCR-5.10: Air Quality-Related Construction Mitigation

The City shall require discretionary projects that have a significant air quality impact to provide construction mitigation to address short-term construction emissions below EDCAQMD thresholds as part of the review of the project application. This excludes building permits for single-family residential units. This may include the following measures:

- a. Measures currently recommended by the EDCAQMD;
- b. Prohibition of open burning of debris from site clearing unless involved with a fuels reduction project;
- c. Utilization of low-emission construction equipment and/or fuels;
- d. Implementation of best management practices in concert with water quality protection measures; and/or
- e. Restriction of idling of construction equipment or vehicles;

Policy NCR-5.11: Development Project Design Requirements

The City shall impose the following requirements on development projects as part of project design to address air quality impacts:

- a. Prohibit the installation of wood-burning hearth devices in proposed residential dwelling units;
- Require that all feasible EDCAQMD-recommended mitigation measures to reduce operational emissions of criteria air pollutants are incorporated into project design; and
- c. Demonstrate compliance with applicable TRPA requirements for air quality mitigation at the time of project consideration that require off-set project and cumulative air quality impacts (e.g., current TRPA Code of Ordinances Chapters 91 [Air Quality Control] and Chapter 93 [Traffic and Air Quality Mitigation Program]).

Policy NCR-5.12: Greenhouse Gas Emission Reductions Support

The City shall support local, TRPA, and statewide efforts to reduce emission of greenhouse gases linked to climate change.

Policy NCR-5.13: Citywide Greenhouse Gas Emission Inventory

The City shall develop a citywide greenhouse gas emission inventory and establish regular time frames for updating the inventory.

Policy NCR-5.14: Greenhouse Gas Emission Reduction Target

The City shall establish a greenhouse gas emission reduction target consistent with AB 32 and SB 375 reduction efforts.

Policy NCR-5.15: Carbon Emission Analysis and Mitigation

The City shall analyze and mitigate significant increases in carbon emissions during project review pursuant to the California Environmental Quality Act.

GLOBAL WARMING AND ENERGY CONSERVATION

Emissions of greenhouse gases into the atmosphere by human activities, predominantly resulting from the burning of fossil fuels, is increasing the potency of the greenhouse effect and leading to global climate change. Not only is there a concern for worldwide impacts, but there are also new and emerging legal and regulatory issues that local governments in California must address. The most important of these is Assembly Bill 32. Passed in 2006, this law requires local governments to inventory greenhouse emissions. The policies in this section encourage energy conservation that leads to lowering South Lake Tahoe's carbon footprint.



To encourage energy conservation in new and existing developments in order to reduce greenhouse gas emissions, limit their effect on global warming, and to create a more sustainable environment.

Policy NCR-6.1: Decreasing Reliance on Non-Renewable Energy Sources

The City shall shift away from reliance on non-renewable sources, should emerging research show net environmental benefits in the use of bio-fuel.

Policy NCR-6.2: Greenhouse Gas Emission Reduction Strategy

The City shall develop a comprehensive strategy to reduce GHG emissions and climate impacts.

Policy NCR-6.3: Local, Clean, and Renewable Energy Support

The City shall increase energy efficiency, reduce emissions and support local, clean, and renewable energy sources.

Policy NCR-6.4: Increasing Economic Efficiency and Performance



The City shall increase economic efficiency and performance by reducing the consumption of nonrenewable resources.

Policy NCR-6.5: Creating Environmental Impact Action Tools



The City shall identify action items for residents and businesses that improve energy efficiency and reduce environmental impact.

Policy NCR-6.6: "Green" Building Credits and Incentives

The City shall develop credits and incentives for "green" building construction.

Policy NCR-6.7: LEED Certified Public Buildings

The City shall develop all new City buildings to meet LEED standards.

Policy NCR-6.8: Building Design and Components

The City shall encourage use of cost-effective and innovative emission-reduction technologies in building components and design.

Policy NCR-6.9: Sustainable Design

The City shall promote the use of sustainable design strategies for "cool communities" such as reflective roofing and light colored pavement.

Policy NCR-6.10: Renewable Energy Incentive Programs

The City shall encourage voluntary participation in programs to increase the use of renewable energy.

Policy NCR-6.11: Solar Photovoltaic System Program

The City shall promote voluntary participation in programs to increase the use of solar photovoltaic systems in new and existing residential, commercial, institutional, and public buildings.

Policy NCR-6.12: Solar Photovoltaic System Incentives

The City should explore offering incentives (e.g., expedited processing and fee reductions/waivers) to property owners and developers who exceed State Title 24 energy efficiency standards.

Policy NCR-6.13: Residential Rehabilitations and Improvements

The City shall encourage the rehabilitation and improvement of existing single-family homes and multi-family homes to achieve greater energy efficiency.

Policy NCR-6.14: EPA Energy Star Certified Appliances

The City shall encourage the use of "EPA Energy Star" certified appliances (e.g., water heaters, swimming pool heaters, cooking equipment, refrigerators, furnaces and boiler units) for new private development and public facilities, where feasible.

Policy NCR-6.15: Expedited Review for Installing Photovoltaic Systems

The City should reduce/remove the building review fee, use a standardized submittal procedure, and provide an expedited application review process for installing photovoltaic systems.

Policy NCR-6.16: Waste Diversion Plan

The City should require developers of commercial, industrial, and multi-family projects to prepare a waste diversion plan to recycle at least 50 percent of the materials generated for discard by their project during the construction phase. The waste diversion and recycling plan shall use best management practices in order to

achieve the recycling target. The plan shall be subject to City's Community Development Department review and approval.

Policy NCR-6.17: City Employee Education Programs

The City shall implement programs to train and educate City employees on energy conservation measures, subject to available funding.

Policy NCR-6.18: Energy Efficient City Facilities

The City shall replace existing traffic lights, street lights, and other electrical uses with energy efficient bulbs and appliances in the course of ongoing maintenance/replacement.

Policy NCR-6.19: Financing Sustainable Energy Practices

The City should evaluate opportunities for supporting new programs and promoting sustainable energy practices through financing mechanisms, such as pooled project funding, low-interest loans and State funds earmarked for energy efficiency and renewable energy. Additionally, the City should work with energy providers and State and Federal agencies to secure tax exemptions and tax rebates for residential energy performance improvements.

Policy NCR-6.20: Protection from Climate Change

The City shall develop strategies to protect the city from the impacts of climate change, such as reduced snow pack, lower lake levels, and natural disasters.