

City of Henderson, Nevada



SNAPSHOT

Country	USA
Project Area	74,440 acres 313 sq.km
Population	331,415 (2022)
Demographics	60.4% White; 18.6% Hispanic or Latino; 9.1% Asian; 8.9% Two or More Races; 6.2% Black or African American; 1.4% Other
Leadership	Mayor Michelle Romero
Key Stakeholders and Partners:	Community Development and Services Department, Parks and Recreation, Public Works, Utilities, Redevelopment Agency, HR, Government Affairs, City Clerks Office, Police Department, City Manager's Office, Economic Development

PROJECT DETAILS

Certified on: July 24th, 2023

Certification level: Gold

City of Henderson, Nevada named LEED Gold and recognized for its sustainability and resilience achievements

"This is a true testament to our ability to ensure sustainable growth, integrate strategic conservation efforts and safeguard vital resources in order to maintain the premier quality of life our residents enjoy both now and for future generations," - City Manager/CEO Richard Derrick

SUSTAINABILITY PRIORITIES

- Develop a regional collaborative effort to assess the risks posed by natural and human-caused hazards and develop jurisdictionally-based mitigation action plans for increasing resiliency and reducing the impact of various hazards as identified in Clark County, Nevada.
- Commit to providing residents with a higher quality of life through public health responses, educational improvements, and environmental justice initiatives.
- Work closely with a wide variety of local, state, regional, and federal partners on activities supporting the conservation and restoration of natural resources and multimodal transportation options.
- Prioritize the reclamation of sites within city boundaries historically riddled with hazardous contamination and pollution into.



Certification Overview

The City of Henderson achieved LEED Cities Gold certification by earning 66 points out of the possible 110 points available across nine credit categories as illustrated. Some of the most significant strategies that contributed to the certification include the City's focused approach to sectors like natural systems and ecology reflecting commitment to parks and open spaces and energy and greenhouse gas emissions reflecting commitment to power surety. In addition, the City is making notable strides with innovative natural resource conservation, food access, and education improvement efforts.



Performance Score | Key Metrics

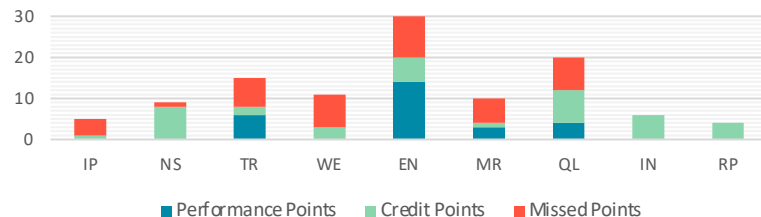
100/100 | Transportation Performance

38/100 | Water Performance

100/100 | Energy and Emissions Performance

73/100 | Waste Performance

80/100 | Quality of Life Performance



Category	Points Achieved/ Points Available
INTEGRATIVE PROCESS (IP)	1/5
NATURAL SYSTEMS AND ECOLOGY (NS)	8/9
TRANSPORTATION AND LAND USE (TR)	8/15
WATER EFFICIENCY (WE)	3/11
ENERGY AND GREENHOUSE GAS EMISSIONS (EN)	20/30
MATERIALS AND RESOURCES (MR)	4/10
QUALITY OF LIFE (QL)	12/20
INNOVATION (IN)	6/6
REGIONAL PRIORITY (RP)	4/4
TOTAL POINTS ACHIEVED	66/110

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INTEGRATIVE PROCESS

1/5

INTEGRATIVE PLANNING PROCESS

The City of Henderson LEED for Cities Project Team was a collaborative effort spanning many City departments including Community Development and Services Department, Parks and Recreation, Public Works, Utilities, Redevelopment Agency, Human Resources, Government Affairs, City Clerks Office, Police Department, City Manager's Office, Economic Development.



In addition, the City staff identified key external stakeholders from the following agencies/organizations: Southern Nevada Water Authority, Nevada Energy, Southwest Gas, Clark County Regional Flood Control District, Republic Services, Regional Transportation Commission of Southern Nevada, City of Las Vegas, Clark County, Nevada Department of Environmental Protection, Southern Nevada Health District.

Both City staff and external stakeholders were grouped into the LEED for Cities categories to explain the purpose of the program and to gather information and data to assist with fulfilling credit requirements. The Project Team and stakeholders discussed the best options to pursue based on the available data. The Project Team identified issues on meeting LEED for Cities requirements, data gaps, potential opportunities to integrate with other plans, and key benchmarks to achieve moving forward to become a more sustainable city. As a result of this project, the City is aware on obstacles that create gaps on sustainability and liveability.



NATURAL SYSTEMS AND ECOLOGY

8/9

ACCESSIBLE GREEN SPACE AND NATURAL RESOURCE ACREAGE

The City of Henderson has 1,816 acres of total green space, which translates to around 176.5 square feet (0.004 acres) (2022) of accessible green space per resident. 73% of Henderson residents live within half a mile distance of these green spaces.

Along with providing accessible green spaces, the City of Henderson demonstrated a natural resource area of 1,676 square feet per person as a result of its conservation efforts. 16.2% of the City of Henderson's jurisdictional land area is natural resource acreage.



RESILIENCE PLANNING: VULNERABILITY AND CAPACITY ASSESSMENT

The City of Henderson lies within Clark County, Nevada. The 2018 Clark County Multi-Jurisdictional Hazard Mitigation Plan (2018 HMP) represents a regional collaborative effort to assess the risks posed by natural and human-caused hazards and develop jurisdictionally-based mitigation action plans for increasing resiliency and reducing the impact of various hazards as identified in Clark County, Nevada. The 2018 HMP identified a total of eleven hazards. The top two natural hazards are climate change and earthquakes while the top two man-made hazards include hazardous materials and terrorism.

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TRANSPORTATION AND LAND USE

8/15

TRANSPORTATION PERFORMANCE

The City of Henderson achieved a transportation performance score of 100/100 based on the measured value of 15.26 (2019) vehicles miles travelled per person per day.



HISTORIC PRESERVATION AND HIGH PRIORITY SITES

In 2015-2016, the City of Henderson built upon the Historic Preservation Plan and developed a two-phase Henderson Historic Resources Survey Plan (HHRSP). The HHRSP provides the City with a framework that the City, in partnership with the Nevada State Historic Preservation Office (SHPO), can follow to identify, record and evaluate Henderson's historic resources for potential eligibility to the local, state and National Register of Historic Places (NRHP).

In addition, the City of Henderson is undergoing several redevelopment plans which have not only provided funding for physical improvements but have been building communities by attracting new business and private investment that have created new jobs, added public art to neighborhoods, and provided residents with funding to make improvements to their homes. Currently, the City of Henderson's Redevelopment Agency manages five redevelopment areas: Cornerstone, Downtown, Eastside, Lakemoor Canyon, and Tuscany.



WATER EFFICIENCY

3/11

WATER PERFORMANCE

The City of Henderson achieved a water performance score of 38/100 based on the daily per capita domestic water consumption value of 92.55 gallons (2022).

STORMWATER MANAGEMENT

While the mean annual rainfall in the Las Vegas Valley is 4.2 inches, the region experiences intense flash floods. The Clark County Regional Flood Control District (CCRFCD) developed the Hydrologic Criteria and Drainage Design Manual (HCDD) for managing flood water, including emergency flow paths for flows exceeding major storms. The manual also requires all new development to include the planning, design, and construction of drainage facilities for both minor (10-year) and major (100-year) storm events.

WATER AUDITS

In order to improve the operational efficiency of the water management system, the City of Henderson conducts an annual water audit to help quantify and track water losses associated with water distribution systems and identify areas for improved efficiency and cost recovery for improving efficiency.



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ENERGY AND GREENHOUSE GAS EMISSIONS 20/30

ENERGY PERFORMANCE

The City of Henderson achieved an energy performance score of 100/100 based on the total annual per capita scope 1 and scope 2 greenhouse gas emissions from all sectors measured as 7.99 MTCO₂ (2020).



LOAD MANAGEMENT

Due to public safety and security concerns, critical load information and details for facilities within the City of Henderson cannot be publicly shared. With respect to municipal facilities, the City has three major loads and consumed approximately 25,895,534 kWh in 2021 from NV Energy. While data for 2022 is incomplete, a total of 7,610,217 kWh have been consumed by Henderson municipal facilities from January 2022 through April 2022. Among the buildings and facilities are fire stations, police stations, City Hall, and the City's Emergency Operations Center. Many of these facilities are equipped with solar photovoltaic (PV) systems and include backup diesel generation or pipeline natural gas in the event of a critical power failure or declared emergency.

POWER SURETY AND RESILIENCY

NV Energy is the Nevada's primary investor-owned utility serving more than 90% of the state. NV Energy has taken great strides to ensure energy reliability. NV Energy looks months and years ahead at energy usage trends, as well as watch on a second-by-second basis to ensure power is available when needed with NV Energy's smart grid. NV Energy ranks in the top 25% of all utilities, according to Edison Electric Institute's SAIDI and SAIFI comparisons.



MATERIALS AND RESOURCES 4/10

WASTE PERFORMANCE

The City of Henderson achieved a waste performance score of 73/100 based on a municipal solid waste (MSW) generation rate of 0.39 tons per person per year and a landfill diversion rate of 22.5% (2021).

SOLID WASTE MANAGEMENT

On December 26, 2006, an "Agreement for Collection and Disposal of Solid Waste" was executed between the City of Henderson and Republic Services. The agreement expires December 31, 2025. Republic Services provides the following services within the City of Henderson municipal boundaries: solid waste collection, transportation, disposal service and curbside recycling, and household hazardous waste collection.



In the City of Henderson, construction or demolition waste may be removed by any duly licensed construction clean up or demolition contractor and transported to a transfer station or a disposal site operated by the city or its franchisee, to a materials recovery facility, or another disposal facility legally authorized by the solid waste management authority having jurisdiction over the facility.

SPECIAL WASTE STREAMS

The State of Nevada has outlined how the state should manage its special waste streams. According to the 2017 Solid Waste Management Plan Special wastes are those that require special handling or disposal because of their physical, chemical, or biological characteristics. For the most part, Nevada's municipal waste programs have developed adequate procedures and facilities for management of these wastes. However, there are a few persistent, and new, emerging problems with special wastes such as electronic waste, medical waste, pharmaceuticals and personal care products, and waste tires.

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QUALITY OF LIFE

12/20

QUALITY OF LIFE PERFORMANCE

The City of Henderson achieved the quality of life performance score of 80/100 by tracking and measuring the key indicators of education, equitability, prosperity, health, and safety related to elevating the living standards of all people in the city (2020):

- Population with high school degree: 93.0%
- Population with bachelor's degree: 32.2%
- Median household income: \$75,430
- Median gross rent as % of household income: 29.0%
- Unemployment Rate: 7.0%
- Gini coefficient: 0.45
- Violent crime rate per capita per year: 0.002
- Median air quality index: 59
- Air quality days unhealthy for sensitive groups: 31



ENVIRONMENTAL JUSTICE

Environmental justice has long been at the forefront of local and regional priority efforts for East Henderson, the City's priority area where neighborhoods impacted by environmental pollutants are located. Within the Downtown and Eastside Redevelopment Areas, an environmental priority area for the City of Henderson is the Nevada Environmental Response Trust (NERT) Remedial Investigation Study Area, established in 2011 when the Trust was created. Most of this area overlaps the Eastside and Downtown Redevelopment Areas, characterized for having lower household income, lower educational attainment, higher instance of disability, higher number of uninsured residents, and poorer health. Cleanup at the NERT Site has been taking place following the environmental rules of the U.S. EPA and the State of Nevada. This area has reduced contamination to the Las Vegas Wash from the NERT site by 90% through the groundwater extraction and treatment system since 2002.



INNOVATION

6/6

INNOVATIVE PERFORMANCE

The City of Henderson demonstrated innovative performance by achieving the following:

1. Downtown Revitalization:

In the past few years, the Water Street District in the City of Henderson has seen remarkable growth that reflects sound planning, strong partnerships, and a variety of successful redevelopment and revitalization strategies.

2. Food Access: The City of Henderson has taken a proactive approach to increase access to healthy foods through various strategies focusing on underserved areas with higher food insecurity rates and higher minority populations.

3. Bird Viewing Preserve: The City of Henderson converted a previous water treatment facility into a bird viewing preserve that now generates eco-tourism and educational programming opportunities.

4. Education Innovation: The City of Henderson is committed to strengthening educational outcomes through partnerships with local Henderson schools utilizing the newly developed Education Initiative Office. This office, along with an advisory board, gathers data and identifies opportunities to maximize the impact of the City's dedicated education funds.

5. Covid-19 Response: The City of Henderson created a COVID-19 Recovery Action Plan "Together We Can: A Primer for Recovery". This was a unique undertaking that positioned it with the tools and action items to mitigate any negative outcomes that could have damaged its residents and businesses in the wake of the COVID-19 pandemic.

6. Pittman Wash: Pittman Wash, riddled by disuse and pollution, has now become a trail system serving as a natural icon for the city and a strategic solution to enhance community development, public engagement, equity, and inclusion.



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REGIONAL PRIORITY

4/4

The City of Henderson demonstrated achievement of the following strategies that address geographically specific socio-economic and environmental priorities:

1. Boulder Highway Corridor:

The Boulder Highway Corridor has been the subject of multiple regional and local planning initiatives, identifying it as an important transportation corridor for the region. This regional effort seeks to transform the car-centric corridor to a safe multimodal transit service area.



2. Southern Nevada Public Land Management Act:

This act allows the Bureau of Land Management (BLM) to orderly sell public land in the Las Vegas Valley and sales of public land have been funding projects that benefit communities and improve overall quality of life for residents and visitors. This program also makes a significant investment in supporting jobs and local economies throughout Nevada and the Lake Tahoe Basin.

3. Water Resource Management and Conservation and Climate Action:

Coping and thriving in the Mojave Desert environment has required solutions to adhere to federal laws and community demands. These demands have given rise to priority identification within jurisdictions and cities throughout the region. The two regional priorities are water resource management and conservation and regional climate action.

4. Southern Nevada Strong Comprehensive Plan:

The Southern Nevada Strong (SNS) Regional Plan was created as a vision spearheaded by the City of Henderson to successfully manage growth and plan for the future of Southern Nevada. The plan was developed with extensive input from the public and adopted by Southern Nevada's local governments in 2015. The purpose of SNS is to develop regional support for long-term economic success and stronger communities by integrating reliable transportation, quality housing for all income levels, and job opportunities throughout Southern Nevada.