



# OFFICE OF SUSTAINABILITY

CITY COUNCIL – 9.6.23  
ITEM 45

Submitted at Meeting  
Date: 9/6/2023 Item: 45  
By Staff



# A brief history

- Foundational policies
- American Recovery and Reinvestment Act (2009)
- Highlights
  - 6.2 MW of solar at 40 facilities
  - Recycling at all facilities
  - Turf conversions and xeriscaping
  - 50,000 LED streetlights
  - Energy efficiency at large facilities
  - LEED certified green buildings
  - Urban forestry / heat island program
  - Transportation electrification at City facilities and garages
  - Single stream recycling at all city facilities



# Recognition

- US Conference of Mayors
- US Green Building Council
- US Chamber of Commerce
- American Institute of Architects
- American Planning Association
- Carbon Disclosure Project
- SolSmart

## Las Vegas wins U.S. Conference of Mayors award for green initiatives



LEILA NA

Mayor Carolyn Goodman stands on the front steps during a tour of the new Las Vegas City Hall on Thursday, Feb. 16, 2012.

By [Las Vegas Sun Staff \(contact\)](#)

Friday, June 20, 2014 | 1:21 p.m.

Sustainability efforts undertaken by the city of Las Vegas are now being recognized nationally.

The U.S. Conference of Mayors today named Las Vegas Mayor Carolyn Goodman and Gresham, Ore., Mayor Shane Bemis as the top winners in its 2014 Mayors' Climate Protection Awards.

The annual awards program, co-sponsored by Wal-Mart, recognizes mayors for innovative programs that increase energy efficiency and reduce greenhouse gas emissions.

"Mayor Goodman and Mayor Bemis are changing the energy future of



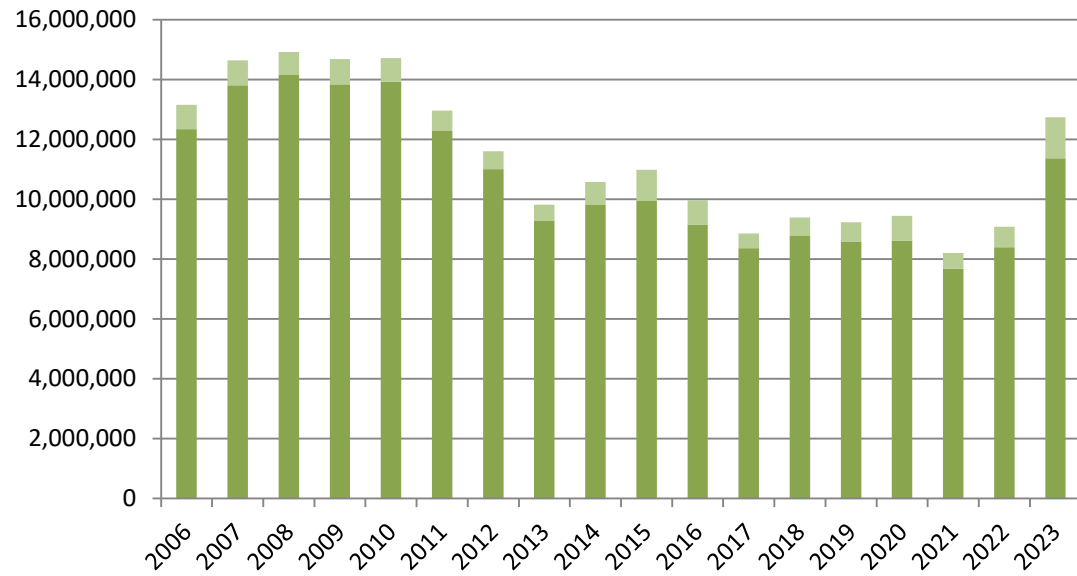


# Taking it to the next level

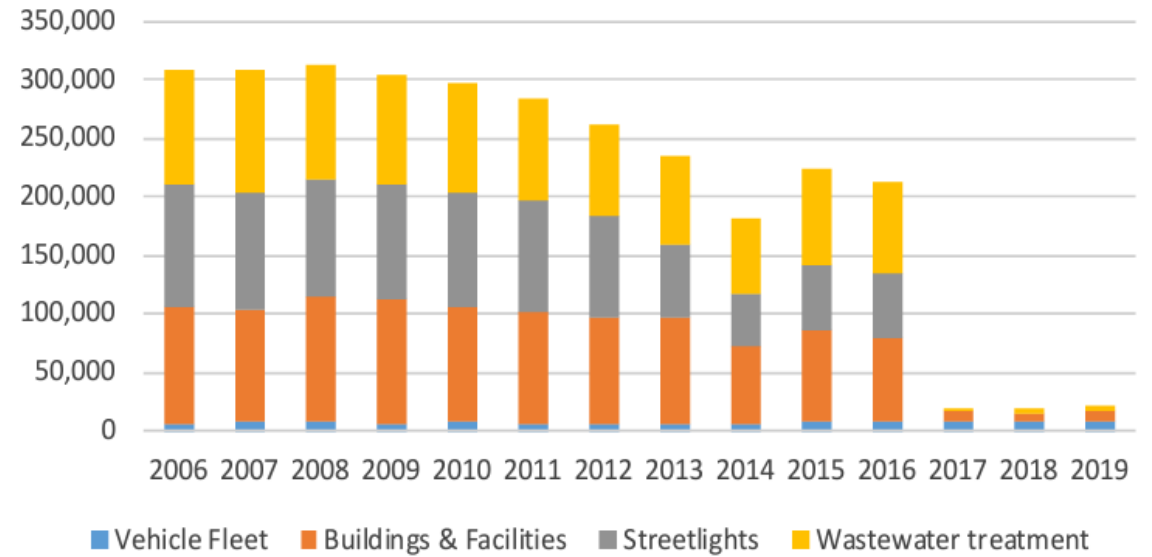
- Net Zero Strategy (R-32-2017)
  - 100% renewable energy:
    - Portfolio credits from NV Energy
    - Hoover hydropower
    - Grid electric / CLV generation
  - Assess overall sustainability metrics
  - Development of a new master plan



## Total Energy Costs



## City of Las Vegas Municipal Emissions (CO2e)



# Taking it to the next level

- LEED for Cities certification (Gold) – 2020-21
  - Used to evaluate existing conditions and assess overall community sustainability
- Adoption of 2050 Master Plan – July 2021
  - Comprehensive master plan (NRS 278) that establishes a clear vision and framework for the future of Las Vegas
  - Guiding principles of Resilience, Equity, Innovation, Health, and Livability
  - Implementation-focused, relevant, clear, and adaptable to change

# City of Las Vegas, Nevada

Project ID: 1000112324  
 Rating System & version: LEED v4.1 Cities: Existing  
 Project Registration Date: 10/23/2018

**Gold Certified**

CERTIFIED: 40-49, SILVER: 50-59, GOLD: 60-79,

PLATINUM: 80+

## LEED v4.1 CITIES: EXISTING

ATTEMPTED: 77, DENIED: 11, PENDING: 0, AWARDED: 66 OF 110 POINTS

| INTEGRATIVE PROCESS 3 OF 3                              |  | ENERGY AND GREENHOUSE GAS EMISSIONS 18 OF 26         |  |
|---|--|--|--|
| Integrative Planning and Leadership 1/1                 |  | Power Access, Reliability and Resiliency Y           |  |
| Green Building Policy and Incentives 2/2                |  | Energy and Greenhouse Gas Emissions Management 14/14 |  |
| NATURAL SYSTEMS AND ECOLOGY 8 OF 8                      |  | ENERGY EFFICIENCY 0/2                                |  |
| Ecosystem Assessment Y                                  |  | Renewable Energy 0/4                                 |  |
| Green Spaces 2/2  |  | Low Carbon Economy 2/4                               |  |
| Natural Resources Conservation and Restoration 2/2      |  | Grid Harmonization 2/2                               |  |
| Light Pollution Reduction NA                            |  | MATERIALS AND RESOURCES 5 OF 10                      |  |
| Resilience Planning 4/4                                 |  | Solid Waste Management N                             |  |
| TRANSPORTATION AND LAND USE 10 OF 12                    |  | Waste Performance 4/4                                |  |
| Transportation Performance 4/6                          |  | Special Waste Streams Management 1/1                 |  |
| Compact, Mixed Use and Transit Oriented Development 1/1 |  | Responsible Sourcing for Infrastructure NA           |  |
| Access to Quality Transit 1/1                           |  | Material Recovery NA                                 |  |
| Alternative Fuel Vehicles NA                            |  | Smart Waste Management Systems NA                    |  |
| Smart Mobility and Transportation Policy 2/2            |  | QUALITY OF LIFE 9 OF 11                              |  |
| High Priority Sites 2/2                                 |  | Demographic Assessment Y                             |  |
| WATER EFFICIENCY 6 OF 11                                |  | Quality of Life Performance 2/2                      |  |
| Water Access and Quality N                              |  | Trend Improvement 4/4                                |  |
| Water Performance 5/6                                   |  | Distributional Equity 1/3                            |  |
| Integrated Water Management 1/1                         |  | Environmental Justice 1/1                            |  |
| Stormwater Management NA                                |  | Housing and Transportation Affordability NA          |  |
| Smart Water Systems NA                                  |  | Civic and Community Engagement 1/1                   |  |
| INNOVATION 3 OF 6                                       |  | Civil and Human Rights NA                            |  |
| Innovation 3/6  |  | REGIONAL PRIORITY 4 OF 4                             |  |
| REGIONAL PRIORITY 4 OF 4                                |  | Regional Priority 4/4                                |  |





# Current & upcoming efforts

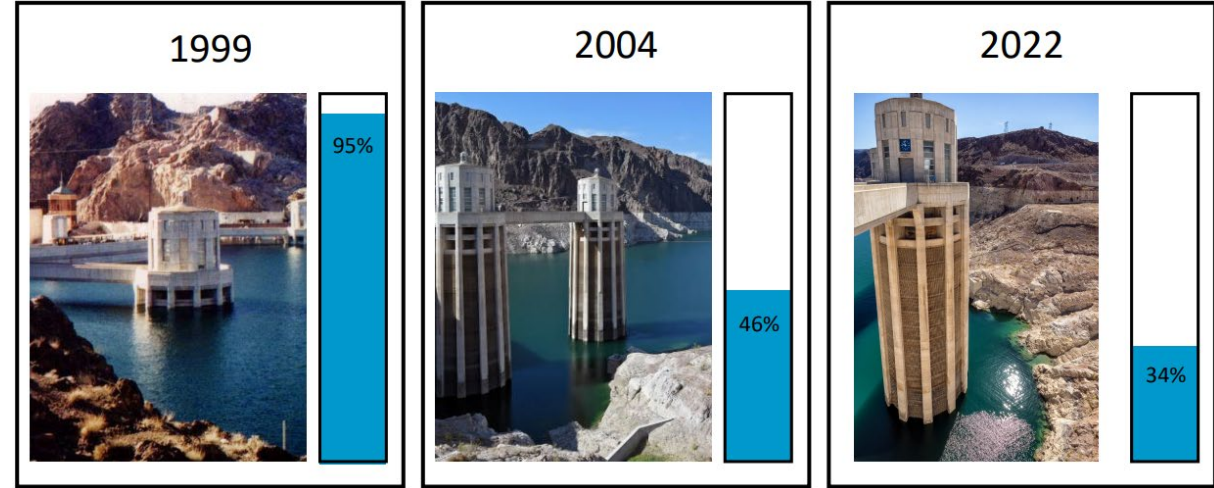
- Water Conservation

- Bill 2023-17: adopted 8.16.23

- Fountain and water feature limits
- Spray irrigation prohibition
- Functional / Non-functional turf definitions
- Evaporative cooling moratorium
- Swimming pool size limits
- New Golf course prohibition
- Septic restrictions – AB 220 (2023)

- AB 356 (2021): Non-functional turf replacement at City parks and facilities

- SNWA evaporative cooling incentives



# Current & upcoming efforts

- Urban Forestry / Urban Heat Island Mitigation
  - Urban Forestry Management Plan
  - Tree-Bate Program
  - IRA Community Forestry Grant
    - \$9 million requested
  - AB 131 (2023): Forestry grants
  - Buen Aire Para Todos: EPA Environmental Justice Grant for temperature and air quality monitoring in East Las Vegas





# Current & upcoming efforts

- Electric Vehicle Infrastructure

- SB 448 (2021) / ERTEP: Electric vehicle charging infrastructure expansion

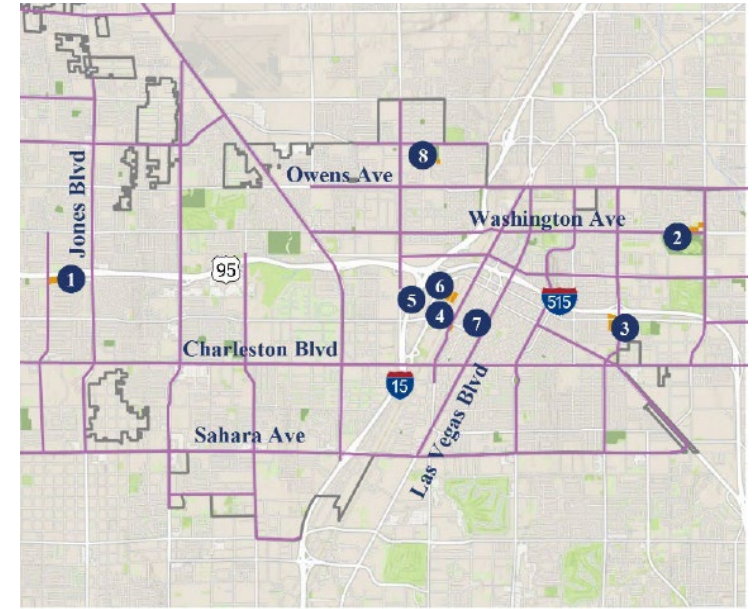
- Mirabelli Community Center
- Doolittle Community Center

- LV4EV

- \$5 million requested
- EV chargers, upgrades, and replacements

- AMP: Pilot Affordable EV Car Sharing

- Participation agreement for DOE grant



LEGEND: — High Injury Network  
● Proposed Charging Locations  
■ Multi-Family Housing Adjacent to Proposed Charging Locations  
■ City Parks  
□ City of Las Vegas Boundary



# Current & upcoming efforts

- Renewable Energy

- IJJA / EECBG and new IRS local gov direct pay: Solar-ready installations

- Municipal Court
- Civic Plaza
- FS 3
- FS 108

- Courtyard / HRC solar

- AB 465 (2019) – Community Based Solar Resources: solar at Freedom Park

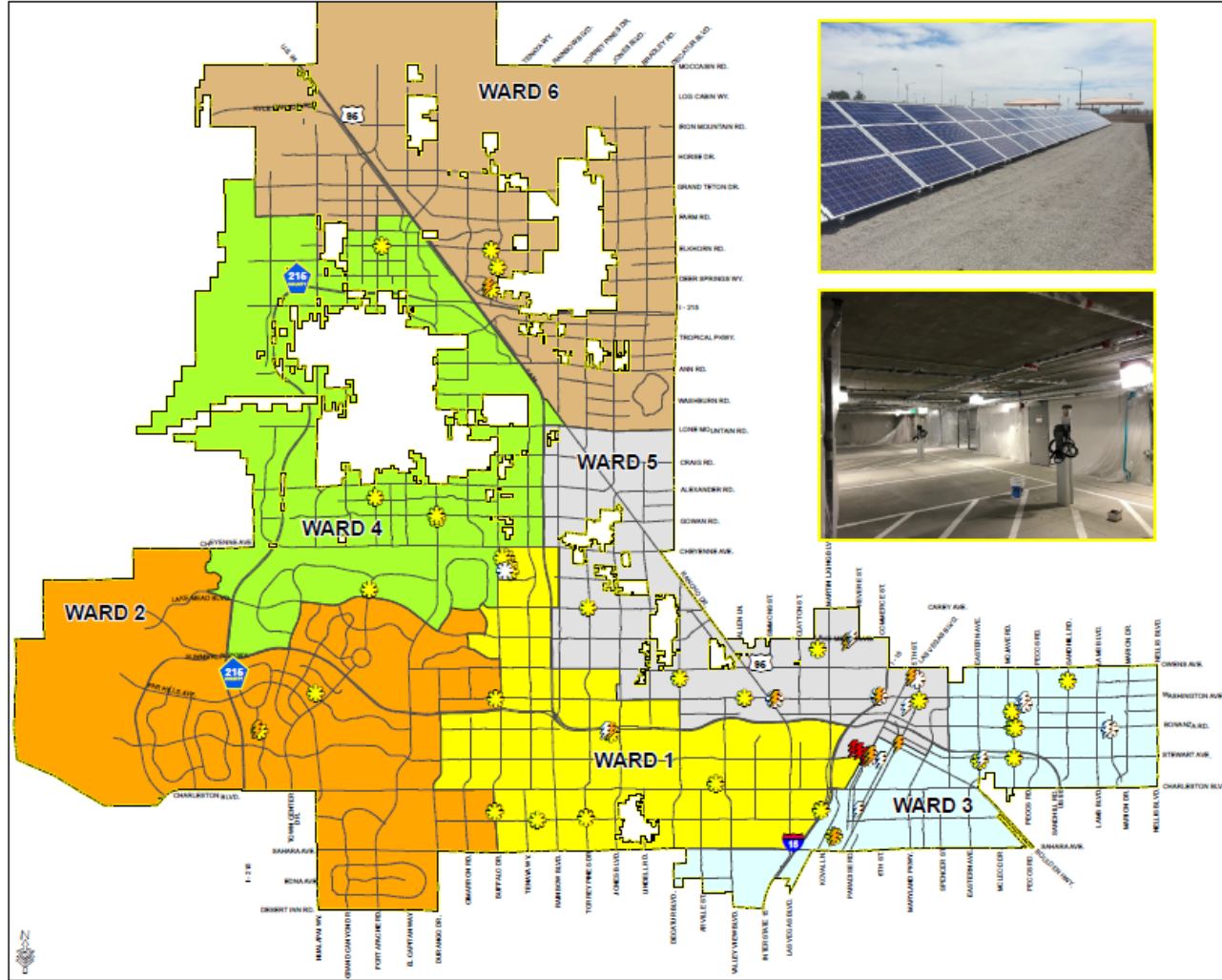
- IRA: Solar for All

- Consortium application with Nevada Clean Energy Fund for \$100 million





# Current & upcoming efforts



## City of Las Vegas

City Wide Solar &  
EV Charging Locations  
(by Ward)

City Limits

### Legend

City Facility - Installed  
Solar PV System

- Existing Solar PV System
- Proposed Solar PV System

City Facility - Installed  
EV Charging Locations

- Existing EV Charging Location
- Proposed EV Charging Location
- LV4EV Replacements Requested

0 0.75 1.5 3 Miles



GIS maps are normally produced  
only to meet the needs of the City.  
Due to continuous development activity  
this map is for reference only.  
Geographic Information System  
Planning & Development Dept.  
702-229-6301

Printed: Thursday, August 10, 2023



# Current & upcoming efforts

- IRA Climate Pollution Reduction Grant
  - Phase 1: \$1 million formula to Las Vegas MSA
  - Phase 2: Competitive
- C-PACE (SB 283 – 2021)
  - Financing for energy efficiency, renewable energy, water conservation, resilience
- Energy efficiency
  - NV Energy PowerShift rebates





# Current & upcoming efforts

- 2050 Master Plan implementation
  - Title 19.07: Transit oriented zoning and high capacity transit construction – collaboration with RTC
    - Maryland Pkwy
    - Charleston Blvd
  - Title 19.12 (Parking Standards)
  - Special Area Planning
    - East Las Vegas (adopted)
    - La Madre Foothills (under development)
    - Kyle Canyon (under development)
    - Charleston
    - West Las Vegas
    - Twin Lakes

