

R-32-2017

RESOLUTION ADOPTING A CITY OF LAS VEGAS STRATEGY FOR COMMUNITY RESILIENCE, NET-ZERO ENERGY, AND SUSTAINABILITY

WHEREAS, the City Council has adopted sustainability resolutions, including the Climate Protection Resolution (R-57-2006), Green Building Resolution (R-81-2006), and Sustainable Energy Strategy (R-50-2008), to make the City a nationwide leader in sustainability; and

WHEREAS, the City has leveraged and invested more than \$65 million in grants, bonds, and rebates in renewable energy, recycling, water conservation, energy efficiency, and alternative transportation projects;

WHEREAS, the City has installed 6.2 megawatts of solar energy at forty City facilities, mounted more than 42,000 energy efficient LED streetlights, constructed six LEED certified green buildings, established a network of electric-vehicle charging stations, upgraded more than half of all City facilities to a green standard, and implemented recycling at all City facilities; and

WHEREAS, sustainability projects have created jobs, improved the environment, and made the City a resilient community by reducing annual electric consumption more than 25 million kilowatt hours, reducing annual water consumption an average of 220 million gallons, increasing recycling rates from 13% to 55%, reducing greenhouse gas emissions to 1950s levels, and reducing the City's total energy costs by more than \$5 million annually; and

WHEREAS, the City's work in sustainability has earned national distinction and awards, including the 2015 certification as a 4-STAR Community, the 2014 U.S. Conference of Mayors Climate Protection Award, the 2014 EPA Green Power Leadership Award, the 2013 American Public Works Association Project of the Year for City Hall, the 2013 Association of Energy Engineers Renewable Project of the Year for the City's solar program, the 2013 Crown Communities Award for Sustainability, and as a large community finalist for the 2012 U.S. Chamber of Commerce Sustainable Community Awards; and

WHEREAS, the City of Las Vegas entered into a Renewable Energy Agreement with NV Energy in December 2015 to provide one-hundred percent of the City's retail load from renewable energy for every public building, park, and streetlight from the City's solar facilities, the Boulder Solar generation

1 facility, and the hydropower allocated to the City from the Boulder Canyon Project (Hoover Dam); and

2 WHEREAS, continued efforts, investment, and reinvestment in the community and the
3 City's operations, plans, and codes will secure the City's place as a world-renowned leader in community
4 resilience and sustainability.

5 NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF
6 LAS VEGAS AS FOLLOWS:

7 1. City staff, in developing the new thirty year master planning document and general plan
8 update entitled "2050 City of Las Vegas Master Plan," shall include community resilience goals,
9 objectives, and strategies in each required Master Plan element that consider or incorporate the following:

- 10 a. Achieve incremental targets for City operations from respective baselines:
- 11 i. Maintain provision of one-hundred percent of the City's retail load by
12 renewable energy.
 - 13 ii. One-hundred percent functional reduction in emissions from City
14 operations from 2010.
 - 15 iii. Thirty percent reduction in total facility energy consumption (MMBTU)
16 from 2008 through energy efficiency measures.
 - 17 iv. Thirty-three percent reduction in water consumption from 2008.
 - 18 v. Eighty percent of City's waste stream will be diverted from landfill.
 - 19 vi. Twenty-five percent of existing occupied City buildings and facilities will
20 meet or be upgraded to established green standards.

21 b. Build upon existing cost-effective strategies in infrastructure and programs that
22 will sustain Las Vegas long-term and will result in impactful and positive effects on quality of life in each
23 of the following areas:

- 24 i. The Built Environment: A sustainable and livable City for residents and
25 visitors with a high quality of life for generations to come must have a built environment that considers
26 ambient noise and light, water systems, compact and complete communities, housing affordability, infill

1 and redevelopment, public spaces, and transportation choices.

2 ii. Energy: A cleaner and resilient environment can be achieved through
3 adaptation and resilience, greenhouse gas mitigation, energy supplied from renewable resources,
4 commercial and industrial sector resource efficiency, resource efficient buildings and public infrastructure,
5 and waste minimization.

6 iii. Economy and Jobs: A strong, diverse, and sustainable economy with
7 quality jobs can be achieved through business retention and development, green market development, local
8 economy, quality jobs and living wages, targeted industry development, and workforce readiness.

9 iv. Education, Arts, and Community: Sustainable communities embrace
10 education, the arts, and diversity, which collectively promote an educated, cohesive, and socially connected
11 community that emphasizes arts and culture, community cohesion, educational opportunity and attainment,
12 historic preservation, and social and cultural diversity.

13 v. Equity and Empowerment: A healthy and sustainable community is
14 equitable and inclusive, allowing access to opportunity for all residents through civic engagement, civil and
15 human rights, environmental justice, equitable and accessible services, and poverty prevention and
16 alleviation efforts.

17 vi. Health and Safety: A healthy and safe Las Vegas requires proactive
18 measures, including active living, high quality community health systems, emergency prevention and
19 response, access to food, high quality indoor air, and prevention of natural and human hazards, which can
20 limit disease and injury and will reduce risks that determine safe and healthy outcomes.

21 vii. The Natural Environment: A sustainable Southern Nevada protects,
22 restores, and preserves its natural resources through green infrastructure, invasive species management,
23 clean air and water, and productive working lands.

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