



CASE STUDY: LAS VEGAS CITY HALL

City Hall Obtains LEED® Gold Certification

Las Vegas placed a high priority on energy efficiency when planning its city hall, with developers aiming for certification from U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) at the outset. To help reach this goal, rebates from NV Energy reduced design and building costs as well as the payback period on energy-saving technologies. Ultimately, careful planning and construction helped the innovative facility achieve LEED Gold certification.

"NV Energy became a key partner in the project," said the City's architectural project manager. "Rebates have contributed to help finance new sustainable projects as the City of Las Vegas approaches a net zero use for its portfolio of facilities. As each sustainable project is complete, the incentives have become a way for rewarding the sustainable efforts of our employees."



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CALL | 800.342.6335
EMAIL | commercial@nvenergy.com
WEB | www.nvenergy.com/commercial

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Project Summary

Las Vegas City Hall is a seven-story office complex with approximately 310,000 square feet of interior space and an off-site parking garage. The LEED Green Building Rating System benchmarks the design, construction and operation of high-performance green buildings. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.



Energy-saving Equipment

LEED certification required the building undergo commissioning services to document and confirm that the commissioned building systems function in compliance with the design criteria set forth in the project specifications. To help accomplish these requirements, Las Vegas City Hall uses a water-cooled chiller, condensing gas boiler, variable air-volume air handlers for HVAC systems, daylighting controls, occupancy sensors, photovoltaic renewable energy generation, and the direct and indirect evaporative cooling of outside air. The project is expected to save 25% of the annual energy cost compared to the LEED baseline.



Project Results

Building Type: Municipality

Project Type: New construction

Measures: LEED® Gold certification

Incentive: \$107,661 (before tiers)

Projected Annual kWh Savings: 1.1 million