

CASE STUDY

City of Henderson, Nevada

ESPC Third Party Consulting

New Justice Facility Energy Efficiency Consulting

Develop Energy Efficiency Design Standards



The City of Henderson, Nevada is the second largest city in Nevada, and one of the fastest growing cities in the US. They are in the process of designing and building several new facilities to meet the tremendous growth of the greater Las Vegas metro area. The City has chosen ESPC as a way to improve existing facilities, reducing costs while preserving capital improvement funds for new facilities. The first building chosen to participate in an ESPC is the Justice Facility.

ESPC – Third Party Consulting – Celtic Energy is providing Third Party quality assurance of Henderson’s first ESPC contract on the 45,000 SF Justice Facility. Duties include preparation of the RFP for selecting an ESCO, review of Initial Proposals and Detailed Energy Surveys, including; savings calculations, monitoring and verification plans, O&M, and training plans. We will also review design plans, equipment submittals, etc. and assist in negotiating these issues. Post-contract duties include monitoring of the ESCO’s M&V, commissioning, and training plan execution. As a result of our efforts, a \$2.3 million contract was awarded to Ameresco in July 2006. The projects include lighting upgrades, BAS improvements, boiler replacements, as well as City wide LED traffic control signals, and a Computer Power Management system on over 1,600 workstations across the City.

New Addition to Justice Facility – CEI has been engaged to provide energy efficiency consulting targeted at reducing the facility’s utility costs, and securing the maximum incentives available through Nevada Power and the Southern Nevada Water District.

Develop Energy Efficiency Design Standards – Based on Henderson’s desire to make all new buildings models of functionality and efficiency, we have prepared this proposal to provide Henderson with energy efficiency consulting services targeted at improving the energy efficiency of all new facilities by reviewing and modifying the City’s standard Design Manual to reflect current energy efficiency practices, designs, and techniques.



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