



CASE STUDY

CITY OF HENDERSON, NV

TECHNOLOGY TYPE

ENERGY SAVINGS PERFORMANCE CONTRACT
GUARANTEED ENERGY SAVINGS
RENEWABLE ENERGY
SOLAR PHOTOVOLTAIC SYSTEM

FACILITY SIZE

1.7
MILLION SQ FT

ESPC ENERGY PROJECT SIZE

\$23.1
MILLION

ELECTRICAL SAVINGS GENERATED STREET LIGHT RETROFIT

11.9
MILLION kWh

ESPC ANNUAL ENERGY SAVINGS:

\$2,000,000

SUMMARY

The city of Henderson, NV needed to adjust their energy savings to fit their large and growing population size. Ameresco worked with the city to help Henderson reach its goals from 2006 to 2011.



SERVICES PROVIDED

Henderson and Ameresco partnered under an Energy Savings Performance Contract which consisted of three project phases. Phases 1 and 2 upgraded systems and technologies in different city facilities, and phase 3 improved lighting fixtures citywide.

- Replaced over 4,000 building light fixtures
- Installed over 1,500 lighting occupancy sensors
- Retrofitted up to 28,000 streetlights with induction lighting technology
- Retrofitted over 310 plumbing fixtures
- Installed two 30 KW solar PV arrays

“Implementing energy-saving programs that help preserve our community’s natural resources for future generations is a key component of our vision to be America’s Premier Community.”

Andy Hafen
Mayor, City of Henderson

CUSTOMER BENEFITS

Ameresco’s plan combined energy conservation and operational savings measures to maximize the city’s improvements.

- Emission reductions in pounds per year for all phases are 34,929,951 CO₂
- GPS mapped locations of city streetlights and traffic signals
- Savings from streetlight retrofitting used towards funding project
- Reduced energy consumption
- Streetlight lamp life expectancy increased by nearly 4 times
- Annual energy cost savings

For the full story, visit: www.ameresco.com