

NEVADA SURE BET PROGRAM

Offered By: NV Energy
Administered By: KEMA Services, Inc

Cooling System Replacement Performance & Energy Savings

Facility Description

Sprint's Administration Building is a multi-use office building. The facility is approximately 140,000 square feet. It houses a retail store, call center, sales staff, and other support departments for Sprint. Currently about 600 employees and contractors occupy the building. The building is primarily cooled with 23 rooftop package units. The temperature set points and air flow are controlled by an energy management system using digital thermostats and temperature sensors and regulated 24 hours a day.

Project Overview

Willy Demel (Facilities Manager) and Neal Tareski (Facilities Coordinator) at the Sprint Service Center in Las Vegas replaced the cooling systems on their 2-story office building in Las Vegas with help from a NV Energy Sure Bet incentive. Sprint replaced twenty-three 20-Ton old GE rooftop air-conditioning units with twenty-two 20-Ton and one 15-Ton Trane high-efficiency packaged unitary heat pumps (with economizer capability). The GE units had an EER of 6 whereas the new Trane units have an EER of 10. The replacement units improved energy efficiency and performance, reduced maintenance and energy use and provided improved control and comfort while decreasing their operating costs. Replacing the older less efficient equipment with new high efficiency equipment reduced cooling and heating energy use by more than 40%.



New Trane Heat Pump Units

Mr. Demel and Mr. Tareski are very impressed with the new heat pumps and their associated benefits. They eliminate the regular repairs needed with the older units and they provide better indoor quality and energy savings.

Project Results

	Total
Annual Energy Savings	1,995,550 kWh
Peak Demand Savings	373 kW
Total Project Cost	\$409,620
Sure Bet Custom Incentive	\$15,000
Annual Energy Cost Savings	\$179,600
Annual Maintenance Savings	\$57,500
Simple Payback Period	1.7 years