

BOMBARD

RENEWABLE ENERGY



Red Rock Fire Station

INDUSTRY:	Government
DESCRIPTION:	Pole Mounted and Solar Support Structures
OWNER:	Bureau of Land Management
LOCATION:	Las Vegas, Nevada
PROJECT SIZE:	73.44 kW
ROLE:	Solar PV Design-Build Contractor

Bombard Renewable Energy completed this installation of a 64.8 kW off-grid solar PV system for the BLM in the Spring of 2012. The system, which completely powers the Red Rock Canyon National Conservation Area Fire Station, uses 270 Sharp 240 watt solar modules and five 8000 watt Outback inverters.



“Both BAI and the USACE (US Army Corps of Engineers) were exceptionally pleased with the outcome of the project and the relationship developed between all parties on this project. I would highly recommend Bombard to other owners and general contractors.”

-Richard Cross
Construction Program Manager
Barajas & Associates, Inc.

Because the fire station does not have grid power the entire PV system uses a 25,000 amp hour battery bank containing 240 batteries. The fire station also has a 50 kW diesel generator for emergencies.

Prior to the installation of the solar PV system the fire station was powered completely by a diesel generator. When it was completed in April of 2012 the Red Rock Fire Station solar PV system was the largest off-grid solar PV system in Nevada.

The 64.8 kW fire station solar PV system is mounted on four solar support structures used for covered parking. An 8.64 kW pole mounted solar PV system was also installed to power the adjacent campground facilities.



ENVIRONMENTAL BENEFITS	
ANNUAL KWH OF ENERGY PRODUCED:	111,197
BARRELS OF OIL OFFSET, LIFETIME:	6,785
EQUIVALENT MATURE TREES PLANTED:	11,334
SMOG EMISSIONS REDUCTION, LBS:	12,028
ACID RAIN EMISSIONS REDUCTION, LBS:	25,019
GALLONS OF WATER:	3,276,730
GREEN HOUSE REDUCTION, LBS:	4,736,995
CAR MILES NOT DRIVEN, LIFETIME:	5,922,073



BOMBARDRE.COM