

CLV WATER POLLUTION CONTROL FACILITY

3.5 MW solar photovoltaic system

LAS VEGAS, NV



Bombard teamed with JMA Architecture Studios, JBA Electrical Engineers and Martin Harris Construction to engineer, procure, and construct a 3.5 Megawatt AC solar PV power plant at the City of Las Vegas Water Pollution Control Facility. The solar power system is located on 18 plus acres of land owned by the City of Las Vegas.

This 3.5 Megawatt system will use 15,162 Trina 230 watt PV modules and zero degree single-axis trackers, along with SMA Sunny Central 500HE inverters.

Other site improvements included fencing and access gates, a new trail along the wash separating the project site from the WPCF, a perimeter road system, site grading, and provisions for communication with the existing plant supervisory control and data acquisition (SCADA) system.

This project also includes an equipment building which provides the formal entrance to the facility and serves as a highly visible demonstration of the City's commitment to renewable energy.



ENVIRONMENTAL BENEFITS

ANNUAL KWH OF ENERGY PRODUCED	7,180,966
BARRELS OF OIL OFFSET, LIFETIME	438,152
EQUIVALENT MATURE TREES PLANTED	731,913
SMOG EMISSIONS REDUCTION, LBS	776,724
ACID RAIN EMISSIONS REDUCTION, LBS	1,615,686
GALLONS OF WATER	211,607,589
GREEN HOUSE REDUCTION, LBS	305,909,896
CAR MILES NOT DRIVEN, LIFETIME	382,440,916

PROJECT DATA

CLIENT	City of Las Vegas
ACRES	18,
SIZE	3.5MW
CONSTRUCTION VALUE	\$19.8M
COMPLETION DATE	2012

