

Crescent Valley Elementary School

Eureka County School District

In the effort to improve the comfort of its students and in the same time to reduce the overall costs of operation of the school, Crescent Valley Elementary School's approach was to switch the existing propane heaters to a dual system, by adding in parallel electrical duct heaters. In order to offset the new energy needs, a solar photovoltaic system was added to the site.

The new 113kW Solar Photovoltaic system is part of a three-phase project totaling more than 200kW installed by Hamilton Solar for Crescent Valley Elementary School in Eureka County in 2010-2012.

Comprised of 481 solar photovoltaic panels, delivering 167,878 kilowatt-hours per year, the system will prevent about 200 tons of carbon dioxide from being emitted from traditional energy sources.

Challenges

The installation of the ground mount system located on the school property on a very rural location on center Nevada, presented Hamilton Solar with some unique challenges as well as opportunities.

The need to complete the project in a short time frame to receive the rebate money that founded it, and the lack of accommodation solutions close to the installation site were just some of the challenges that the installation crew had to encounter. Hamilton Solar is proud to say that we overcome all the challenges and everyone's goals were met.

Crescent Valley elementary School Phase III

Crescent Valley, Nevada

System Owner: Eureka County School District

System Installer: Hamilton Solar LLC

Type: Ground Mount

Product: Trina Solar TSM 240-PA05

Completion Date: August 2012

Cost Savings: approximate \$19,950 annually

Medium Ground Mount Structure installation using Trina Solar TSM 240-PA05.

481 modules Trina Solar TSM 240-PA05.

113.04kW DC/ 100.23kW AC

400,382 lbs /year CO2 Saving