



Reliable Solar Power Backup

> Case History

DC Generator provides reliable backup power to photovoltaic system powering portions of the world's largest inland desalination plant.



Where:

Kay Bailey Hutchinson Desalination Plant, El Paso, TX
Water injection wells located 22 miles from utility power

What:

(3) 5.5kW, 24V, GCAC LP fueled DCathlon® DC Generator

Purpose:

To provide uninterrupted power supply to gravity injection well control & monitoring at times when photovoltaic system alone cannot produce enough power.

Primary choice factors:

By installing the DCathlon® DC Generator at the remote injections well sites, the operator will be able to reduce the amount of battery plant by 75% and minimize the long term battery replacement and maintenance cost by 50% over the next 20 years.

DC Generator provides seamless backup power to non-telecom related application.

El Paso, TX, US --- As the world's largest inland desalination plant, this state-of-the-art plant produces up to 27.5 million gallons of potable public drinking water for the City of El Paso and Fort Bliss. This plant represents a forward-looking strategy in water supply by using a previously unusable brackish groundwater supply to creating a new supply of water - water from water.

The well facility is comprised of three injection wells, located in a remote area within the US Army's MacGregor Range located in nearby Ft. Bliss, Texas. The sites are powered with a photovoltaic system, each of which has a 5.5kW GCAC DCathlon® DC Generator providing backup and supplemental power. The application provides the necessary power, 24/7, to servo-motor operated valves regulating flow into the injection well, supervisory control and data acquisition and radio communications to the facility.

The DCathlon® DC generators take over the critical power requirements whenever the solar panels do not produce enough power or when the DC power system is depleted to pre-set voltage level, providing a seamless power transition without interruption.

www.cumminspowerproducts.com

© 2009 Cummins Power Products. All rights reserved.
DCathlon is a registered trademark of Cummins Power Generation.
Cummins Power Products is a joint venture between
Cummins Inc. and Cummins Bridgeway, LLC.
Bulletin # D-1219 Rev. 8/09 (2009)