

# EVERY DROP.



## PROJECT PROFILE:

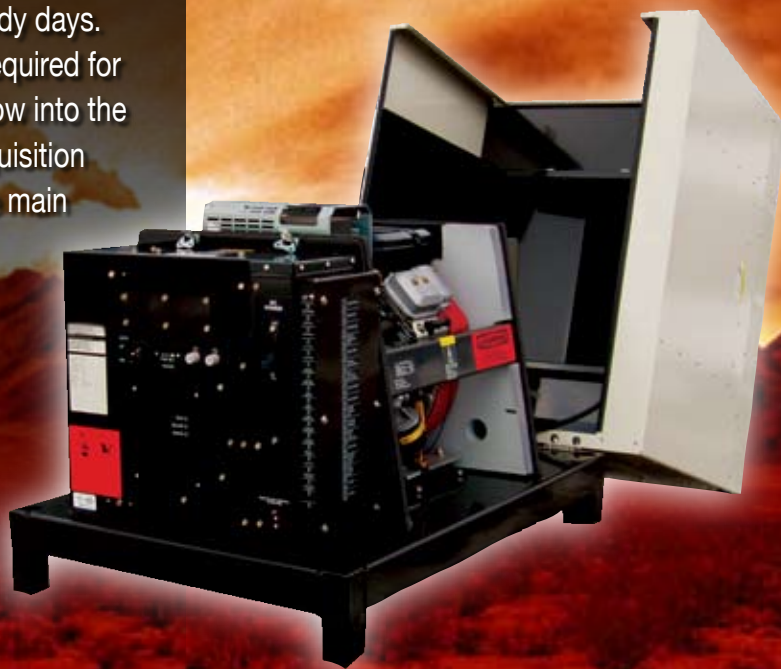
### El Paso, TX Desalination Plant

Three remote site injection wells dispose of the brackish by-product from the reverse osmosis process used by the Kay Bailey Hutchison Desalination Plant in El Paso, TX. The three injection wells are capable of handling the three million gallons per day of concentrate, with two wells in use at any given time. The sites are powered with a photovoltaic system each of which has a 5.5kW GCAC DCathlon® DC Generator providing backup power during the night or cloudy days. The application provides the necessary power required for the servo-motor operated valves that regulate flow into the injection wells, supervisory control and data acquisition (SCADA) as well as radio communications to the main facility 22 miles away.



*DCathlon® Off-Grid Backup Generators Provide Seamless Power Transition.*

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## PROJECT PROFILE: Kay Bailey Hutchison Desalination Plant—El Paso, TX

El Paso, TX is the site of the world's largest inland desalination plant and represents a forward looking strategy in water supply. A shared project of El Paso Water Utilities (EPWU) and Fort Bliss; the joint desalination facility produces 27.5 million gallons per day of fresh water by treating brackish water from the Hueco Bolson Aquifer; making it a critical component of the region's water portfolio. By utilizing a previously unusable brackish groundwater supply, the Kay Bailey Hutchison Desalination Plant increases EPWU's fresh water production by 25%. The \$87 million facility is comprised of a state-of-the-art reverse osmosis (RO) plant, groundwater wells, transmission pipelines, pumping and storage facilities and injection well disposal of the residual RO concentrate.

Due to the need of disposing of the three million gallons per day of RO concentrate, remote location of the injection well facility within the US Army's MacGregor Range in nearby Fort Bliss, and lack of utility power; the decision was made to install solar powered control systems with backup DC output generators.

After careful evaluation, the **DCathlon brand of DC generators, manufactured by Cummins Power Products**, were chosen due to their mil-spec design and inherent capability to meet the harsh operating conditions while providing reliable power at unattended locations.

Each injection site is comprised of a deep well, one million gallon storage tank and controls. The wells are completed to a depth of 3000 to 4000 feet. The sites are powered by a photovoltaic system, each of which has a **5.5kW GCAC DCathlon DC Generator**, operating on LP vapor

fuel, providing backup and supplemental power.

The application provides necessary power, 24/7, to servo-motors regulating the flow into the injection well, supervisory control and data acquisition (SCADA), and radio communications to



the plant. The **DCathlon DC Generators, manufactured by Cummins Power Products** at their New Hudson, MI facility, take over the critical power requirements whenever the solar panels do not produce enough power (cloudy days) or when the DC power system reaches a pre-set voltage level (nighttime), providing a seamless power transition without interruption.



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