

Abundant Grace Fellowship Wheat Ridge, CO

Background Story:

In the fall of 2011, Pastor Douglas L. Crook of Abundant Grace Fellowship in Wheat Ridge, CO contacted Brayden Automation about using a demand controller in conjunction with their recently installed Solar PV System. He had found BAC on the internet while searching for ways to avoid excessive demand charges. Their peak demand was previously over 25KW, meaning they were on the SG (Demand) Rate, thus paying a demand charge as well as a Kwh charge even though they were actually producing more energy with their solar system than they were using from the utility. They had been manually controlling their load, but Pastor Doug was concerned they would exceed the 25KW threshold at some point.

By using an Energy Sentry 9388B demand controller to manage their 2 air conditioning units, and other suitable loads, they were able to stay below the 25KW threshold. Xcel Energy moved them back to the C rate which has reduced their electric bills dramatically. Now, when they "sell" their solar produced Kwhs to the utility they receive a greater pay back due to the rate structure of being on the C vs. the SG rate. By eliminating their demand charge and "banking" their Kwhs, they are able to off-set cloudy and overcast days as well as a large night time load when the Solar PV System is unable to produce enough Kwhs to provide power for their electric load. They don't have to worry about a demand charge since the C Rate is Kwh's only.

Abundant Grace Fellowship has reduced their electric bills by 90%! By using the 9388B combined with their solar system, their electric bills dropped from around \$800 to \$80 per month.



Client Comments:

"We are very pleased with our monthly savings that have resulted from our decision to use solar energy in combination with the Demand Control System from Brayden Automation Corp. The installation of the Demand Control System was professionally done and the service and support have been prompt and courteous."

Pastor Douglas L. Crook
Abundant Grace Fellowship

