

US EPA ARCHIVE DOCUMENT

# FRONTIER FERTILIZER PHOTOVOLTAIC SYSTEM



- 30 Evergreen (190 W) photovoltaic panels mounted on roof
- Sunny Boy 5000 Inverter
- 5.7 kW DC
- 8,000 kW-hrs per year
- Started November 2007
- Total production of 25,056 kW-hrs (at end of 2010)
- Local, small business installed



**Combined, these systems produce enough energy to power the 80-gallon-per-minute groundwater extraction and treatment system and reduce CO<sub>2</sub> production by 54 metric tons per year.**



- 336 Evergreen (205 W) photovoltaic panels mounted on the ground
- 7 Fronius IGPlus10.0 Inverters (pictured at right)
- 68.88 kW DC, 59.5 kW CEC AC
- 101,125 kW-hrs per year (estimated)
- Started August 2010
- System performance data uploaded to Internet for remote monitoring
- Local, small business installed



THIS PROJECT SUPPORTED BY:  
American Recovery and Reinvestment Act

