



# Solar Photovoltaic Case Study

## Hayden-Udall Cap Plant 4401 South Tucson Estates Pkwy

### TECHNICAL SPECIFICATIONS:

- Installed July 2009.
- 229.95 kW DC; 183.96 kW AC.
- 1095-210W (KD210GX-LP) Kyocera polycrystalline panels.
- 1 Satcon Powergate Plus 250kW PVS-250 inverter.
- Greenhouse gas reductions-approximately 357.2 metric tons CO<sub>2</sub>/year.



### PROJECT DESCRIPTION:

- Third (and currently the largest) solar array at site.
- Array layout includes 73 strings of 15 panels each.
- Output of 420,266 kWh per year is approximately 18% of the building load.
- SPG Solar, Inc. guarantees electrical output for 5 years and provides maintenance services for 10 years.
- Single axis TTI tracking system follows sun to maximize output.
- Production of system viewable online <http://tiny.cc/EKNAd>.

### FINANCIAL DETAILS:

- Project paid for through an allocation of Clean Renewable Energy Bonds (CREBs).
- 13 year payback period at 0% interest.
- Bonds repaid through TEP rebates and electricity charges to building owner.
- Total design and installation costs - \$1,807,634.



- For additional information go to: <http://www.tucsonaz.gov/energy/>