



Solar Photovoltaic Case Study

Sun Tran Bus Maintenance Facility

3920 North Sun Tran Blvd

TECHNICAL SPECIFICATIONS:

- Installed December 2009.
- 84.24 kW DC; 67.39 kW AC.
- 312 ASE-270-DGF/50 Schott multicrystalline PV panels.
- 2 Sunny Tower ST42 systems with 6 SMA-SB7000 Inverters on each tower.
- Greenhouse gas reductions-approximately 122.87 metric tons CO₂/year.



PROJECT DESCRIPTION:

- City of Tucson's newest LEED Gold certified facility.
- Project features 2 separate arrays of 156 modules on 6 different parking canopies covering 32,400 square feet.
- Estimated annual output -144,552 kWh .
- Layout consists of 4 rows of 11 modules and 1 row of 8 modules per canopy.
- Open deck design for panel cooling and reduced canopy cost.
- System power production and other details available 24/7 online at <http://tiny.cc/ekg2s>.

FINANCIAL DETAILS:

- Solar panels installed in second of three phases of construction.
- This phase funded by the Regional Transit Authority (RTA) and the Federal Transit Administration (FTA).
- Total design and installation costs for both solar arrays excluding canopies - \$545,264.



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