



SOLAR HOT WATER CASE STUDY

Fire Station #22



TECHNICAL SPECIFICATIONS:

- Installed January 2007, operational June 2007.
- Sun Earth SolarRay TE64P-80-2 Model System.
- Two 32 square foot collectors servicing two 80 gallon natural gas water heaters.
- Estimated annual savings of 3,300 kWh through SRCC's OG300 Rating.
- Greenhouse gas reductions approximately 3.2 equivalent metric tons CO₂ annually.



PROJECT DESCRIPTION:

- 8-bay station includes 15 dormitories, a watch room, multi-use lounge, kitchen and dining area, study room, and a workout room.
- Seven plus acre site provides for future expansion of the station or development of other training facilities on site.
- Solar water heater supplies both kitchen appliances and showering with hot water.
- Solar water heater used to reduce the impact associated with fossil energy use.
- First LEED Gold Fire Station in Arizona.

FINANCIAL DETAILS:

- Total costs including installation - \$5,500.
- TEP rebate pending.

