SOLAR HOT WATER CASE STUDY

Fire Station #22

TECHNICAL SPECIFICATIONS:
• 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.