

## Project Description

### AMERICAN CANYON ENERGY PARK A Solar Micro-Utility Facility

A Renewable Energy  
Economic Stimulus Project funded  
Under the American Recovery and Reinvestment Act  
(ARRA) and the Green Tech Power Group, LLC



The Napa-Vallejo Waste Management Authority Solar Micro-Utility Facility is a proposed 6.7-MW solar electric power generation facility located adjacent to the City of American Canyon in the unincorporated area of Napa County, California. The proposed utility-scale central power station will consist of approximately 50,000 solar photovoltaic modules, assembled into large-scale solar arrays and ground-mounted on steel support structures on a fixed-axis. The project will be constructed on a 50-acre vacant parcel of land that was formerly a regional landfill site serving the Cities of Napa, Vallejo, and American Canyon and the County of Napa.

The electricity generated from this innovative green power facility will be used to supplement existing power at the Napa-Vallejo Waste Management Authority site and to offset peaking power loads. It will also be used to meet the energy growth demands of the agency members of the Authority who will have priority dispatch as off takers for such facilities as the American Canyon Waste Water Treatment Plant or the Napa Waste Water Treatment Plant. Excess electricity may be sold to Pacific Gas and Electric Company as part of California's Renewable Energy Portfolio Standard requiring private utility companies to purchase 20%

of their power from renewable energy sources by 2010 and 33% by 2020. The 6.7 MW solar power project will generate over 7.5 million kWh per year and cost between \$25-35M. The Project Study was prepared by SOLARIZE ENERGY and VTN Engineers.

The owner of the Solar Power Micro-Utility will be the Green Tech Power Group, LLC in collaboration with Napa-Vallejo Waste Management Authority under an exclusive Solar Power License Agreement and a Solar Power Purchase Agreement. The owners have submitted applications for Economic Stimulus grants under the American Recovery and Reinvestment Act (ARRA) to be used to offset initial capital costs. The project also will qualify for the grants under the California Solar Initiative, Performance Based Incentive Program to subsidize the annual cost of the production of solar electricity over the first five-years. The balance of funding will be from private equity investors and loans guaranteed by the U.S. Department of Energy.

The environmental benefits of this 6.7-MW Solar Power Micro-Utility Project for the Authority service area include the avoidance of the following global warming pollutants: 60,000 lbs. of Smog ( $\text{NO}_x$ ); 52,000 lbs. of Acid Rain ( $\text{SO}_2$ ); 80 million lbs. of Carbon Emissions ( $\text{CO}_2$ ). All of this is equivalent to removing 7,500 cars; planting 12,000 acres of trees; and providing 3,200 homes with electrical power.

In addition to the energy savings and environmental benefits, this project will also create between 75-100 Green Collar Jobs – with 60-75 part-time jobs during the installation and construction phase and 25-30 permanent jobs post construction for the operation and maintenance of this solar power facility.

