



# Net Zero

Energy

Water

Waste



## Fort Hunter Liggett Phase I – 1MW Solar Power System

Fort Hunter Liggett (FHL) has made significant progress in reducing energy use intensity (BTU's per square foot) by over 40 percent from 2003 to 2010 through behavioral changes, implementation of low demand technologies and low energy new construction. The base is currently constructing an Army-funded 1 megawatt (MW) solar power system.

This Energy Conservation Investment Program (ECIP) project is part of the first phase of the Net Zero Energy Strategy and is scheduled for completion by the end of March 2012. FHL has a second ECIP project of the same capacity that the U.S. Army Corps of Engineers (USACE) awarded in September 2011. A third project is in the works and may be funded by ECIP, Energy Savings Performance Contracts (ESPC), or utility rebates.



Carport Style PV System similar to what will be constructed at FHL

FHL is able to capitalize on solar as an energy source because of very favorable weather with 295 sunny days/year and high electricity rates (\$0.13/KWh during peak summer hours) It is anticipated that rates will continue to increase, making utilization of readily available renewable energy sources all the more important.

The current average annual load at FHL is about 12,000 MWh and the peak load is 2.6 MW. Two future ECIP solar projects are being programmed, and the installation is beginning exploration of geothermal power and ground source heating/cooling. These, along with substantial energy conservation measures, will help FHL towards achieving the goal of Net Zero energy consumption

### Contribution to Net Zero



The 1 MW PV system will produce about 1,500 MWh annually. This will support Fort Hunter Liggett's plan to acquire on site generation to achieve Net Zero Energy. This project will provide about 12% of the installations annual energy consumption.