
Solar Steam Plant & District Energy System

Contributed by Tim Castleman

The solar steam plant can be incorporated into a District Energy System that manages energy for HVAC, lighting and other building services as well as abundant propulsion for a fleet of thermal powered passenger trains. The landmark PG&E steam plant on Jibboom Street could once again serve in the capacity it was designed for and with modern technology provide clean, renewable energy to the District.

Using state of the art distributed energy technologies the District Energy System is a net energy asset to the community, providing improved grid reliability with significant economic benefits to owners due not only to operation cost savings but also sales of excess capacity result in a net gain on the books for energy. Historically, the Sacramento Rail yards were completely self-contained, with shops making everything from soap to the buckets to wash in, not to mention most of the trains that built the West.

More about Distributed Energy Technologies: <http://www.energy.rochester.edu/>

California Energy Commission planning calls for 250 MW and 80 MW Municipal Combined Cycle Power Plants to be built in N. California. (http://www.energy.ca.gov/sitingcases/all_projects.html)

We propose to use the existing PG&E building to house equipment to provide energy for use by the residents and tenants of the planned Sacramento rail-yards redevelopment.