



Agenda Date: 9/19/2006
Agenda Placement: 6F

NAPA COUNTY BOARD OF SUPERVISORS Board Agenda Letter

TO: Board of Supervisors
FROM: Michael Stoltz for Robert Peterson - Director
Public Works
REPORT BY: Nancy Oweong, Staff Services Analyst I, 253-4476
SUBJECT: PSA Agreement with Kenwood Energy

RECOMMENDATION

Director of Public Works requests approval of and authorization for the Chair to sign an agreement with Kenwood Energy for a maximum of \$5,008 for the term September 19, 2006 through June 30, 2007 for Photovoltaic System Performance Analysis at the Sheriff and Juvenile Justice Center facilities.

EXECUTIVE SUMMARY

Kenwood Energy has been utilized in the past by the County to provide a consistent methodology in performing energy audits throughout County facilities, and the development of effective energy utilization systems for the construction of the Sheriff and Juvenile Justice facilities. Approval of the requested agreement today will allow Kenwood Energy to evaluate the performance of the installed Photovoltaic System (PV) systems at those facilities.

FISCAL IMPACT

Is there a Fiscal Impact?	Yes
Is it currently budgeted?	Yes
Where is it budgeted?	Capital Improvement Program
Is it Mandatory or Discretionary?	Discretionary
Discretionary Justification:	The evaluation of the performance of the PV systems will allow the County to rate the effectiveness of the systems.
Is the general fund affected?	Yes
Future fiscal impact:	No future fiscal impact related to this agreement.
Consequences if not approved:	The County will not be able to evaluate the effectiveness of the PV systems.

Additional Information: None

ENVIRONMENTAL IMPACT

ENVIRONMENTAL DETERMINATION: The proposed action is not a project as defined by 14 California Code of Regulations 15378 (State CEQA Guidelines) and therefore CEQA is not applicable.

BACKGROUND AND DISCUSSION

The Public Works Department has previously contracted with Kenwood Energy to perform energy needs assessments on various County facilities and as a consultant in developing preconstruction energy efficient systems for the Sheriff and Juvenile Justice Center facilities. Photovoltaic (PV) equipment was installed in both facilities which have been operational for at least a year. To evaluate and compare anticipated versus actual energy efficiencies realized, Kenwood Energy is proposing the following related to evaluating the PV systems:

Data Collection

The County does not currently have a Data Acquisition System (DAS) on either of the PV Systems and therefore staff has not been able to track the performance of the systems since they have been operational. All PV systems require an inverter to transform the generated energy from Direct Current (DC) to Alternating Current (AC) and some inverters are designed to capture and store some of the operational data. Kenwood Energy will visit both facilities to download as much operating data as is available.

Report and Recommendation

Kenwood Energy will generate a report that provides the following information:

- | A summary of operational data from the PV system;
- | An analysis of how the energy management measures have impacted the energy use of the facility, and compare that to the projections that were completed prior to construction; and
- | Recommendations on how to effectively capture PV system operating data in the future.

The Department will provide a subsequent presentation to the Board based upon this report and recommendation. Staff recommends continuing to utilize the services of Kenwood Energy without further competitive process because of the excellent service previously provided, and to maintain a consistent methodology in preparing and performing energy audit needs assessment studies for various County facilities.

SUPPORTING DOCUMENTS

None

CEO Recommendation: Approve

Reviewed By: Andrew Carey