

BOARD OF SUPERVISORS
Yolo County, California

To: CAO
Co. Counsel
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Human Resources
GSD ✓
DESS
Public Health

CONSENT CALENDAR

Excerpt of Minute Order No. 08-226 Item No. 2.04, of the Board of Supervisors' meeting of September 23, 2008.

MOTION: Yamada. SECOND: Rexroad. AYES: McGowan, Thomson, Rexroad, Yamada, Chamberlain.

2.03 Approve amendment to the Yolo County response to the 2007/08 Grand Jury final report. (No general fund impact) (Jensen)

Recommended Action 2.03

Approved amendment on Consent.

2.04

Receive energy update, approve energy changes to all county office buildings and spaces, and approve request for consistent energy conservation policy. (\$230,000 general fund reduction) (Groom)

Recommended Action 2.04

Received and approved on Consent.



COUNTY OF YOLO

General Services Department

Ray Groom
Director

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TO: **Supervisor Duane Chamberlain**, Chairman
and Members of the Board of Supervisors

FROM: **Ray Groom**, Director of General Services *RG*

DATE: September 23, 2008

SUBJECT: Energy update and request for policy approval. (\$230,000 General Fund reduction).

RECOMMENDED ACTION:

Approve the following changes to all county office buildings and spaces:

- A. Raise summer cooling temperature set point during normal operating hours from 73 degrees Fahrenheit to 76 degrees Fahrenheit.
- B. Lower winter heating set point during normal operating hours from 70 degrees Fahrenheit to 68 degrees Fahrenheit.
- C. Change building operating schedules for air conditioning and lighting systems to the minimum hours per day operation.
- D. Minimize winter warm up cycles for all buildings.
- E. Perform retro-commissioning on all building outdoor air economizer systems.
- F. Perform on-going systematic energy management conservation through the county wide computer energy management system.

SUMMARY			
Potential Energy Reduction Savings 2008/2009			
<i>Item</i>	<i>Actions</i>	<i>Cost Savings (\$/yr)</i>	<i>Co2 Emission Reductions (tons/yr)</i>
A&B	Adjust cooling and heating temperature setpoints	\$18,770	106
C	Reduce HVAC and lighting to minimum hours per day	\$66,884	370
D	Minimize winter warm up cycles for all buildings	\$23,740	112
E	Perform retro-commissioning of HVAC Outdoor Air Economizers	\$26,965	161
F	Ongoing systematic energy management	\$93,637	517
TOTAL		\$229,996	1,266

Reviewed by: *EGroom* Phone #: *8221*

FISCAL IMPACT:

Approval by the Board of Supervisors today will establish an effective and consistent energy conservation policy county wide that has been factored into this fiscal year's approved budget.

REASON FOR RECOMMENDED ACTION:

Approval of this action today will substantially reduce the county's carbon footprint by over a thousand tons per year and produce an annual energy reduction savings of approximately \$230,000.

BACKGROUND:

Energy costs have risen substantially over the last decade, and at the Board of Supervisors direction, General Services has implemented a large number of renewable and sustainable green energy conservation projects and measures county wide. This effort has been on-going since 2002 and has produced a significant energy reduction and cost saving for the county.

SUMMARY			
Documented County Energy Reduction Savings 2002 – 2007			
<i>Item</i>	<i>Rebates</i>	<i>15 Years Energy Savings</i>	<i>Annual Savings</i>
Retrofit Project	\$253,273	\$6.9 Million	\$463,000
Cogeneration	\$200,000	\$450,000	\$30,000
Building Closure Plan	-	\$2.6 Million	\$177,556
Solar Energy	\$397,981	\$1.05 Million	\$70,000
TOTAL	\$851,254	\$11 Million over 15 yrs	\$740,556

We were the first county to be recognized by the California Climate Action Registry as a Climate Action Leader in 2006. Significant efforts were taken to determine the county's carbon footprint and resulted in reduction actions including today's action. The County also been recognized by the U.S. Environmental Protection Agency in 2007 with a Leadership Award for being a Green Power Partner. This was a result of the Boards solar energy project for the Bauer Health Building.

General Services has implemented a pilot test energy reduction program in the Erwin Meier Administration Building utilizing the computer energy management system. Adjustments were made to approximately 90 energy set points (temperature controllers) to reduce consumption. These adjustments were noted by few staff members yet resulted will result in an energy savings of approximately \$3,500 annually.

We are also evaluating the potential for a third party financed lease purchase solar project for the justice campus that could reduce the jail's energy consumption by 30 percent. We are also investigating the worthiness of selling the Bauer Building solar array which could result in immediate cash and reduced energy cost. Should this action be appropriate, General Services will request Board of Supervisors approval.