

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
ACTION AGENDA SUMMARY

DEPT: Chief Executive Office

BOARD AGENDA # *B-4

Urgent

Routine

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AGENDA DATE December 22, 2009

CEO Concurs with Recommendation YES NO
(Information Attached)

4/5 Vote Required YES NO

SUBJECT:

Approval to Complete and Submit an Application to the California Energy Commission Energy Efficiency Conservation Block Grant (EECBG) for Stanislaus County

STAFF RECOMMENDATIONS:

1. Authorize the Chief Executive Officer to complete and submit an application to the California Energy Commission Energy Efficiency Conservation Block Grant Program.
2. Authorize the Chief Executive Officer to sign and submit the grant application and supporting documents to the California Energy Commission.
3. Find that the recommended actions are exempt from the provisions of the California Environmental Quality Act (CEQA).
4. Approve the attached Energy Efficiency Conservation Block Grant Resolution.

FISCAL IMPACT:

If awarded, Stanislaus County is eligible to receive up to \$671,249 from the Energy Efficiency Conservation Block Grant Program. The grant will provide American Recovery and Reinvestment Act funding to Stanislaus County to be shared between Stanislaus County's General Services Agency-Facility Maintenance, and Public Works. The main project for the use of these funds will be the replacement of eight (8) air conditioning/heating units at Juvenile Hall. In order to fully utilize the funds available to Stanislaus County, Public Works will use the remainder of the grant funds to replace street lights as outlined below. Any expenditures related to each of the proposed projects will be reimbursed in arrears as detailed in the grant guidelines. (Continued on Page 2)

BOARD ACTION AS FOLLOWS:

No. 2009-862

On motion of Supervisor Chiesa, Seconded by Supervisor Grover

and approved by the following vote,

Ayes: Supervisors: O'Brien, Chiesa, Grover, Monteith, and Chairman DeMartini

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) Approved as recommended

2) Denied

3) Approved as amended

4) Other:

MOTION:

Christine Ferraro

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk

File No.

FISCAL IMPACT: (Continued)

Grant funds in the estimated amount of \$415,000 for materials and labor plus project management costs of approximately \$160,000 for a total of \$575,000 will be used to convert the heating at Juvenile Hall from electric to gas for a projected annual savings to the General Fund of approximately \$45,000 in energy costs.

The remaining grant funds in the amount of \$96,249 will be used to replace approximately 200 existing 150 watt, high pressure sodium (HPS) lights to 70 watt induction lights for a projected annual savings to the Road Fund of \$9,600.

Staff will return to the Board to establish a project budget and to accept the award prior to beginning implementation of the energy conservation block grant projects.

DISCUSSION:

Federal Economic Stimulus Funding

The American Recovery and Reinvestment Act (ARRA) allocated \$3.2 billion nationwide to the Energy Efficiency and Conservation Block Grants (EECBG) Program. These funds are to be used to assist cities and counties in implementing projects and programs to reduce total energy use and fossil fuel emissions, as well as implementation of programs and other activities that result in long-term energy savings. Larger cities and counties have received direct allocations of EECBG grant funds while smaller cities and counties in California (i.e., cities with populations below 35,000 and counties with populations below 200,000) must apply to the California Energy Commission (CEC). Stanislaus County is eligible to receive \$671,249.

Stanislaus County received notification of the grant in August 2009. A task force composed of members from the Chief Executive Office, Capital Projects, General Services Agency-Facility Maintenance and Public Works was assembled to identify potential projects. A total of nine (9) projects were evaluated and prioritized based on available non-grant funding, funding source, anticipated return on investment, and the ability to meet grant requirements and timelines. Based on the criteria, the list was narrowed to two (2), the Juvenile Detention Facility heating and cooling system replacement and Public Works street light lamp replacement.

The Stanislaus County Juvenile Detention Facility located at 2215 Blue Gum Ave. in Modesto currently has a number of different roof top heating, ventilation, and air conditioning (HVAC) units. The eight (8) units supporting the older housing units, kitchen, intake, and gym use a combination of chilled water supplied from a central chiller to cool the space and electric resistive heating elements located inside of each unit for heating. Electric resistive heating is not considered an efficient means to heat space due to the high cost of electricity. These units have out lived there useful life and are in need of replacement.

It is proposed to replace these eight (8) units with units that use chilled water for cooling and hot water from a central boiler for heating of the space. The replacement of this equipment would result in an estimated savings of 1,560 kilowatt hours (KWH) or 5,326 million british thermal units (MBTU) resulting in an estimated energy savings of \$45,000 per year. The entire cost of this replacement project will be funded by the ARRA grant funds with no impact to the general fund.

Stanislaus County Public Works is responsible for the operation, maintenance and energy costs of nearly 1700 streetlights, generally high-pressure sodium (HPS) ranging from 150 to 250 watts. The lights generally operate during evening hours, averaging 12 hours per day. Energy is supplied by three different energy companies: Pacific Gas and Electric; Modesto Irrigation District and Oakdale Irrigation District. The rate schedules vary by provider.

With Board approval, Public Works will change out approximately 200 of the existing County owned and maintained high pressure sodium lights with induction lighting. Induction lighting is a system based on the compact fluorescent lamp (CFL). The composition is the same as the CFL except that it does not use an electrode to transfer power to the lamp. Instead, there is an inductor inside the bulb connected to the ballast. The power is transmitted by means of electro-magnetic fields. Induction lighting is rated at 100,000 hours compared to 24,000 hours for HPS, reducing maintenance costs significantly. Power consumption is cut by about 50%, leading to much reduced energy costs. This is accomplished by the induction lights using a far lower wattage while the lumens remain comparable to HPS lighting, with less lumen depreciation over the life of the lamp. Induction lighting is also environmentally friendly at the time of disposal because of its use of solid mercury, rather than liquid mercury, and its long life span.

The existing HPS lights can be retrofitted to the new induction heads at a cost of approximately \$500/light, including materials and labor.

The recommended actions are exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 156 (b)(3) of the State CEQA Guidelines, since the Juvenile Detention Facility and Public Works street lights are existing public facilities and the recommended actions involve no expansion of the use of the facilities.

POLICY ISSUE:

The Board of Supervisors should consider whether approval of this request supports their stated priorities of a safe community and efficient delivery of public services.

STAFFING IMPACT:

Staff from the Chief Executive Office, Capital Projects, Public Works, and the General Services Agency have been involved in this effort. Grant recipients are required to

Approval to Complete and Submit an Application to the California Energy Commission
Energy Efficiency Conservation Block Grant (EECBG) for Stanislaus County.
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report monthly on the use of ARRA funds. It is anticipated that the reporting requirements will have minimal staffing impact. CEO Capital Projects, General Services Agency, and Public Works staff will be involved in the implementation of the grant funded projects.

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
STATE OF CALIFORNIA

Date: December 8, 2009

No. 2009-862

On motion of Supervisor Chiesa Seconded by Supervisor Grover
and approved by the following vote,

Ayes: Supervisors: O'Brien, Chiesa, Grover, Monteith, and Chairman DeMartini

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

Item # *B-4

THE FOLLOWING RESOLUTION WAS ADOPTED:

Approval to Complete and Submit an Application to the California Energy Commission Energy Efficiency Conservation Block Grant (EECBG) for Stanislaus County

WHEREAS, STANISLAUS COUNTY recognizes that it is in the interest of the regional, state, and national economy to stimulate the economy; create and retain jobs; reduce fossil fuel emissions; and reduce total energy usage and improve energy efficiency within our jurisdiction; and

WHEREAS, Energy Efficiency and Conservation Block Grant (EECBG) funds are available through the California Energy Commission's EECBG Program for grants to eligible local governments for cost-effective energy efficiency projects; and

WHEREAS, STANISLAUS COUNTY is eligible for EECBG funding under the California Energy Commission's EECBG Program; and

WHEREAS, STANISLAUS COUNTY is proposing to implement the energy efficiency projects described in Exhibit A in order to qualify for EECBG funds from the California Energy Commission; and

WHEREAS, STANISLAUS COUNTY has considered the application of the California Environmental Quality Act (CEQA) to the approval of the energy efficiency projects described in Exhibit A; and

NOW, THEREFORE, BE IT RESOLVED, that in compliance with the CEQA, Stanislaus County Board of Supervisors finds that the approval of the energy efficiency projects described in Exhibit A are not a "project" under CEQA, because the Juvenile Detention Facility and Public Works street lights are existing public facilities and the recommended actions involve no expansion of the use of the facilities.

Be it also resolved that the Stanislaus County Board of Supervisors authorizes the submittal of the application to the California Energy Commission's EECBG Program for funds to execute the proposed project described in Exhibit A.

ATTEST: CHRISTINE FERRARO TALLMAN, Clerk
Stanislaus County Board of Supervisors,
State of California



Be it also resolved, if recommended for funding by the California Energy Commission, the **Stanislaus County Board of Supervisors** authorizes **STANISLAUS COUNTY** to accept a grant award up to the amount of this application for **\$ 671,249** and, that **the Chief Executive Officer** acting for the **STANISLAUS COUNTY** is hereby authorized and empowered to execute in the name of **STANISLAUS COUNTY**, all necessary contracts and agreements, and amendments hereto, to implement and carry out the purposes specified in the application.

EXHIBIT A

The Stanislaus County Juvenile Detention Facility located at 2215 Blue Gum Ave. in Modesto currently has a number of different roof top heating, ventilation, and air conditioning (HVAC) units. The eight (8) units supporting the older housing units, kitchen, intake, and gym use a combination of chilled water supplied from a central chiller to cool the space and electric resistive heating elements located inside of each unit for heating. Electric resistive heating is not considered an efficient means to heat space due to the high cost of electricity. These units have out lived there useful life and are in need of replacement.

It is proposed to replace these eight (8) units with units that use chilled water for cooling and hot water from a central boiler for heating of the space. The replacement of this equipment would result in an estimated savings of 1,560 kilowatt hours (KWH) or 5,326 million british thermal units (MBTU) resulting in an estimated energy savings of \$45,000 per year. The entire cost of this replacement project will be funded by the ARRA grant funds with no impact to the general fund.

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It is proposed to change out approximately 200 of the existing County owned and maintained high pressure sodium lights with induction lighting. Induction lighting is a system based on the compact fluorescent lamp (CFL). The composition is the same as the CFL except that it does not use an electrode to transfer power to the lamp. Instead, there is an inductor inside the bulb connected to the ballast. The power is transmitted by means of electro-magnetic fields. Induction lighting is rated at 100,000 hours compared to 24,000 hours for HPS, reducing maintenance costs significantly. Power consumption is cut by about 50%, leading to much reduced energy costs. This is accomplished by the induction lights using a far lower wattage while the lumens remain comparable to HPS lighting, with less lumen depreciation over the life of the lamp. Induction lighting is also environmentally friendly at the time of disposal because of its use of solid mercury, rather than liquid mercury, and its long life span.

The existing HPS lights can be retrofitted to the new induction heads at a cost of approximately \$500/light, including materials and labor.

ATTACHMENT A

APPLICATION COVER PAGE

1. Applicant Name: Stanislaus County

2. Type of Application: (Select one or both as appropriate)
Direct Equipment Purchase
Municipal Financing Program
Energy Efficiency Project

3. Applicant Category:
Individual City
Individual County
Collaborative (attach list of city/county name(s) included in application):

4. Total Grant Funds Requested: \$ 671,249.00

5. Budget Includes Prevailing Wage: (refer to Exhibits 3, 4, and 5) Yes No

6. Proposed Start Date: (no earlier than November 2009) March / 1 / 2010

7. Proposed End Date: (maximum September 13, 2012) September / 30 / 2011

8. Principal Contact/Project Manager: (serves as single point of contact for all communications)

Name: Patricia Hill Thomas
Phone: (209) 525-6333 Fax: (209) 544-6226
Email: THOMASP@stancounty.com
Organization: Stanislaus County Chief Executive Office
Position/Title: Chief Operations Officer

Address:
1010 10th Street Place, Ste 6800
Modesto, California
95354

9. Authorized Representative Certification: To the best of my knowledge, I certify that:

- The information contained in this grant application package is true and provides all information requested in the solicitation document.
The proposed projects are cost-effective energy efficiency opportunities available to the eligible city/county.
Proposed project(s) are not for prohibited activities as specified within solicitation document.
Grant funds will be used to supplement (rather than supplant) funds already committed or expected to be received in support of the funded project.
Applicant is in compliance with Single Audit Act requirements.

Authorized Representative Signature

Date 12-19-10

Table with 3 columns: Solicitation, Date Received, Proposal Number Assigned. Row 1: PON-09-001, empty, empty.

ATTACHMENT A**INSTRUCTIONS****1. Applicant Name**

Provide the legal name of the Applicant submitting the application for funding. For collaborative applicants, provide the legal name of the lead collaborative entity applying.

2. Type of Application

Specify whether the application is for an Energy Efficiency Project or Direct Purchase.

3. Applicant Category

Specify whether the application is an individual or collaborative application. For collaborative applications, a listing of participating cities and/or counties must be attached.

4. Total Grant Funds Requested

Specify the amount of grant funds being requested. Requests cannot exceed the funding allocations for each eligible city/county as listed in Exhibit 1.

5. Budget Includes Prevailing Wage

Check whether the proposed budget reflects the payment of prevailing wages for the project. For more information, see Exhibits 7 and 8.

6. Proposed Start Date

Indicate the proposed start date of the project. Successful projects will be authorized to begin only after full execution of funding agreements. The earliest anticipated timeframe for executed agreements is November 2009.

8. Proposed End Date

Indicate the proposed end date of the project. Projects must be completed on or before September 13, 2012.

9. Principal Contact/Project Manager

Indicate the name and information for the person serving as the single point of contact for this project.

10. Authorized Representative Certification

Proposals must be signed and dated by the Authorized Representative of the Applicant organization.