



SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BOARD OF EDUCATION

Agenda Item# 10.1

Meeting Date: November 6, 2014

Subject: SMUD High School Energy Audit Training Project – Energy Efficiency Recommendations for Luther Burbank High School

- ☒ Information Item Only
- ☐ Approval on Consent Agenda
- ☐ Conference (for discussion only)
- ☐ Conference/First Reading (Action Anticipated: _____)
- ☐ Conference/Action
- ☐ Action
- ☐ Public Hearing

Department: Facilities Support Services

Recommendation: N/A

Background/Rationale:

Students from SCUSD's Luther Burbank High School participated in SMUD's student energy auditor and training project. Students were trained in energy efficiency auditing, the impact of energy use on the global environment, and green career pathways. In the process, students developed workforce skills and experience. Students used new skills to audit Luther Burbank High School and are presenting their findings.

Financial Considerations: N/A

Students and teachers were paid stipends for their participation.

Documents Attached:

1. Executive Summary

Estimated Time of Presentation: 30 minute presentation

Submitted by: José L. Banda, Superintendent
Cathy Allen, Assistant Superintendent
Facilities Support Services

Approved by: José L. Banda

Board of Education Executive Summary

Facilities Support Services

SMUD High School Energy Audit Training Project – Energy Efficiency
Recommendations for Luther Burbank High School
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I. OVERVIEW / HISTORY

SMUD has become the first utility in California to develop a comprehensive set of services in support of the California Clean Energy Jobs Act (Proposition 39). As part of its Prop 39 services, SMUD is training the next generation of the energy industry's workforce through a program called "Auditing Conservation, and Training (ACT)". The program pairs junior and senior high school students with a teacher-mentor from their school, and provides them with the skills and experience to begin energy efficiency-related and energy-auditing careers. The program also provides opportunities for participating students to help their own school districts save money through making energy efficiency recommendations. Student and teacher participants are paid a stipend for their time.

Sixty-four students from eight different school districts were broken into two week-long classes and trained on the green energy industry, energy efficiency, electrical load auditing, and were coached in developing workforce skills. The summer course was delivered by SMUD's contractor, Strategic Energy Innovations (SEI), and included theoretical classroom lessons and practical field work. Eight students from Luther Burbank used their new skills to audit their school, and have prepared a report and presentation of their findings. The Luther Burbank team, led by science teacher Mayra Tellez, will also lead local middle school students through a classroom energy audit. SMUD provides funding to develop and carry out the curriculum and support in developing presentations. SMUD provides tools and materials to assist teacher participants in incorporating energy education into their broader curriculum.

Participating school districts are Center Unified, Natomas Unified, Elk Grove Unified, Sacramento City Unified, Twin Rivers Unified, Folsom Cordova Unified, Galt High, and San Juan Unified.

II. DRIVING GOVERNANCE

Board Policy 3511 Grimes-Kennedy Green and Grid Neutral Model Schools Policy

III. BUDGET

N/A

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IV. GOALS, OBJECTIVES, AND MEASURES

- Provide workforce skills and experience to SCUSD high school students in energy efficiency and energy auditing, and introduce them to energy efficiency career paths.
- Establish students as a resource for educating peers, teachers and administrators regarding cost effective energy efficiency measures and options for reducing energy demand and associated carbon emissions.
- Reduce electrical costs associated with heating, lighting, and cooling at Luther Burbank High School.
- Facilitate teaching staff to incorporate energy efficiency and conservation lessons into their broader curriculum.
- Raise community awareness about the importance of energy conservation in helping to reduce greenhouse gas emissions and mitigate global climate change.

V. MAJOR INITIATIVES

N/A

VI. RESULTS

Eight students from Luther Burbank high school completed one week of intensive education in energy auditing, the impact of energy use on the global environment, and green career options. Students completed an audit of Luther Burbank High School and have made recommendations for cost-effective energy reductions.

VII. LESSONS LEARNED/NEXT STEPS

Facilities Support Services to evaluate student recommendations for potential to include in Proposition 39 efficiency projects. Students will promote student/teacher energy efficiency behaviors on campus.