



LOS ANGELES UNIFIED SCHOOL DISTRICT

Board of Education Report

Report Number:	323-11/12
Date:	June 28, 2012
Subject:	Amendment to the Facilities Services Division Strategic Execution Plan to Approve \$6 Million of School Energy Conservation Lighting Upgrades
Responsible Staff:	
Name	Kelly J. Schmader, Chief Facilities Executive
Office/Division	Facilities Services Division
Telephone No.	213-241-4811

BOARD REPORT

Action Proposed: Staff proposes that the Board of Education approve an amendment to the Facilities Services Division (FSD) Strategic Execution Plan (SEP) to approve energy conservation lighting upgrades at schools throughout the District with a cumulative budget of \$6 Million. Construction is anticipated to start in the beginning of the third-quarter of 2012 and all upgrades are anticipated to be completed in one year, by the beginning of the third-quarter of 2013.

Background: In the early 1980s, the T8 lamp was introduced in the United States and for many years lighting manufacturers have been making improvements to it by enhancing key performance characteristics. Today, the T8 lamp is considered the standard for new construction and the replacement to the T12 lamp.

Currently the District consumes nearly \$100 Million of electricity to operate its facilities. Approximately 30 percent of the overall consumption is attributed to lighting. It is anticipated that the amount of electricity consumed by each inefficient T12 lamp and associated fixtures could be decreased by approximately 35 percent if it was replaced with a modern T8 lamp and associated fixtures.

A previous review of District facilities within the Los Angeles Department of Water and Power territory indicate that there are more than 80,000 inefficient lighting fixtures in use throughout the District. Furthermore, based on the age of the District's non-new school sites, it is anticipated that there are many more existing schools operating with inefficient lighting. As such, lamps/fixtures at all of the District's non-new school sites will be surveyed in order to determine which schools present the greatest opportunity for energy savings as a result of these lighting upgrades. Aging and inefficient T12 lamps/fixtures will be



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replaced at as many school sites as the \$6 Million funding allocation permits. Steps will be taken to ensure these lighting retrofits are coordinated with any scheduled modernization projects. Upgrades to lighting systems at schools with the greatest opportunity for energy savings will be prioritized for execution.

The proposed school energy conservation lighting upgrades will promote more sustainable school facilities and decrease the District's overall electricity consumption. The nature of these upgrades requires that skilled District electricians execute the work.

Expected Outcomes: If the Board of Education approves staff's proposal, surveys of the lamps/fixtures at all of the District's non-new school sites will be conducted. The surveys will result in a list of school sites operating with inefficient lighting, as well as the number and physical location of the individual lamps/fixtures at each site. Following the completion of the site surveys and prior to the commencement of work, staff will issue an informative to the Board of Education and Citizens' Bond Oversight Committee (BOC) with the survey results and prioritized list of school sites expected to receive lighting system upgrades. Aging and inefficient T12 lamps/fixtures will be replaced at as many school sites as the \$6 Million funding allocation permits. It is anticipated that this proposed action will enable approximately 80,000 inefficient T12 lamps/fixtures to be upgraded.

These facilities upgrades will improve the quality of lighting in our schools, enable the District to avoid at least \$2 Million in annual General Fund costs for electricity once all of the upgrades are completed, and retain 22 District electrician positions currently included in the upcoming District wide Reduction-In-Force. These upgrades will begin immediately after the completion of the site surveys, and will be executed over a one-year period. Based on current workload projections, the 22 District electrician positions are anticipated to be retained for one year.

Board Options and Consequences: A "yes" vote will allow the Facilities Services Division to move forward with school energy conservation lighting upgrades that would enhance students' learning environments, enable General Fund costs for electricity to be avoided and 22 District electrician positions planned for elimination to be retained.

If the proposed action is not approved, approximately 80,000 inefficient lamps/fixtures will remain in use and consume approximately 35 percent more electricity than the proposed T8 lamps/fixtures. Additionally, the



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District's overall electricity bill will not be reduced, improvements to school facilities to make them more sustainable will not be made, and 22 District electrician positions will be eliminated.

Policy Implications: These actions are consistent with the District's commitment to address unmet school facilities needs and provide students with a safe and healthy learning environment.

Budget Impact: If this item is approved, \$6 Million of Bond Program Funds will be allocated to energy conservation lighting upgrades at schools throughout the District. Approximately 80,000 inefficient T12 lamps/fixtures are expected to be upgraded. Once all of these upgrades are completed and the T8 lamps/fixtures are in operation, it is anticipated that the District will avoid at least \$2 Million in annual General Fund costs for electricity over the life of the new lamps/fixtures, which is estimated at 12 to 15 years.

Issues and Analysis: Staff has preliminarily identified 80,000 inefficient lighting fixtures in use throughout the District. However, based on the age of the District's non-new school sites, it is anticipated that there are many more existing schools operating with inefficient lighting. As such, lamps/fixtures at all of the District's non-new school sites will be surveyed in order to determine which schools present the greatest opportunity for energy savings as a result of these lighting upgrades. Aging and inefficient T12 lamps/fixtures will be replaced at as many school sites as the \$6 Million funding allocation permits.

In accordance with Measures R and Y Bond Language (Part 2 of the Bond Project List: Repair, Upgrade, and Modernization Projects, Step 2: Specific Repair, Upgrade and Modernization Projects to be Undertaken at Hundreds of Campuses Districtwide), upgrades to lighting systems will be carried out at schools found to have the greatest need, as determined by this proposed amendment to the FSD-SEP, if approved by the Board, and consistent with and subject to the Bond Project List. For the purpose of determining greatest need, upgrades to lighting systems at schools that present the greatest opportunity for energy savings will be given priority for execution.

Schedules at individual school sites will vary based on the number of fixtures to be replaced and possible unforeseen conditions. However, it is anticipated that all of the upgrades that can be executed within the \$6 Million funding allocation will be completed within a year. Based on current workload projections, the 22 District electrician positions



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associated with this action are anticipated to be retained for one year.

**Bond Oversight
Committee
Recommendations:**

This item was considered by the BOC at its meeting of June 20, 2012.
The BOC adopted the attached resolution by a vote of 13 ayes and 0 nays.

Staff has concluded that this proposed SEP amendment will facilitate implementation of the FSD-SEP, and therefore, it will not adversely affect the District's ability to successfully complete the SEP.

Attachments: N/A

Informative

**Desegregation
Impact Statement**



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Respectfully submitted,

APPROVED BY:

DR. JOHN E. DEASY
Superintendent

MICHELLE KING
Senior Deputy Superintendent
School Operations

REVIEWED BY:

APPROVED &
PRESENTED BY:

DAVID HOLMQUIST
General Counsel

Approved as to form.

KELLY J. SCHMADER
Chief Facilities Executive
Facilities Services Division

TONY ATIENZA
Director of Budget Services and
Financial Planning (Interim)

Approved as to budget impact statement.

**LOS ANGELES UNIFIED SCHOOL DISTRICT
SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE**

Stephen English, Chair
L.A. City Controller's Office
Pamela Schmidt, Secretary
Early Education Coalition
Maria Cabildo, Executive Committee
LAUSD Student Parent
Ilene Ashcraft, Executive Committee
Tenth District PTSA

Barry Waite
CA Tax Reform Assn.
Bill Brewington
Thirty-First District PTSA
Eva Hain
AARP
James E. Herr
L.A. Chamber of Commerce
Jim Schneiderman
L.A. Co. Auditor-Controller's Office
Joan Sullivan
L.A. Mayor's Office
John Hakel
Assoc. General Contractors of CA
Paul Escala
CA Charter School Association

Quynh Nguyen
LAUSD Student Parent
Robbie Hunter
L.A. County AFL-CIO
Stuart Magruder
American Institute of Architects
Elizabeth Lugo
LAUSD Student Parent (Alternate)
Becki Nadybal
L.A. Mayor's Office (Alternate)
Judi E. Thomas
L.A. Co. Auditor-Controller's
Office (Alternate)

Joseph P. Buchman – Legal Counsel
Burke, Williams & Sorensen, LLP
Thomas A. Rubin, CPA
Oversight Committee Consultant

Gary C. Anderson, PhD
Bond Administrator
Daniel Hwang
Administrative Analyst

RESOLUTION 2012-19

BOARD REPORT NO. 323-11/12

**AMENDMENT TO THE FACILITIES SERVICES DIVISION STRATEGIC EXECUTION
PLAN TO APPROVE \$6 MILLION OF SCHOOL ENERGY CONSERVATION LIGHTING
UPGRADES**

WHEREAS, currently the District consumes nearly \$100 Million of electricity annually to operate its facilities. Approximately 30 percent of the overall consumption is attributed to lighting. It is anticipated that the amount of electricity consumed by each inefficient T12 lamp and associated fixtures could be decreased by approximately 35 percent if it was replaced with a modern T8 one; and

WHEREAS, a previous review of District facilities within the Los Angeles Department of Water and Power territory indicate that there are more than 80,000 inefficient lighting fixtures in use throughout the District. Furthermore, based on the age of the District's non-new school sites, it is anticipated that there are many more existing schools operating with inefficient lighting; and

WHEREAS, lamps/fixtures at all of the District's non-new school sites will be surveyed in order to determine which schools present the greatest opportunity for energy savings; and

WHEREAS, following the completion of the site surveys and prior to the commencement of work, staff will issue an informative to the Board of Education and Citizens' Bond Oversight Committee (BOC) with the survey results and prioritized list of school sites expected to receive upgrades; and

WHEREAS, aging and inefficient T12 lamps/fixtures will be replaced at as many school sites as the \$6 Million funding allocation permits. Steps will be taken to ensure these lighting retrofits are coordinated with any scheduled modernization projects. Upgrades to lighting systems at schools with the greatest opportunity for energy savings will be prioritized for execution; and

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WHEREAS, the proposed school energy conservation lighting upgrades will promote more sustainable school facilities and decrease the District's overall electricity consumption. The nature of these upgrades requires that skilled District electricians execute the work; and

WHEREAS, \$6 Million of Bond Program Funds will be allocated to these energy conservation lighting upgrades resulting in avoiding at least \$2 Million in annual General Fund costs for electricity over the life of the new lamps/fixtures, which is estimated at 12 to 15 years and retain 22 District electrician positions currently included in the upcoming District wide Reduction-In-Force; and

WHEREAS, these upgrades will begin immediately after the completion of the site surveys, and will be executed over a one-year period; and

WHEREAS, these actions are consistent with the District's commitment to address unmet school facilities needs and provide students with a safe and healthy learning environment; and

WHEREAS, Facilities Services Division has concluded (1) that amending the Facilities Strategic Execution Plan to approve \$6 Million of school energy conservation lighting upgrades as described in the attached Board Report will facilitate implementation of the Facilities Services Division Strategic Execution Plan, and (2) that the proposed amendment will not adversely affect the District's ability to successfully complete the Facilities Services Division Strategic Execution Plan; and

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The School Construction Citizens' Bond Oversight Committee recommends that the Board of Education adopt an amendment to the Facilities Services Division Strategic Execution Plan to approve \$6 Million of school energy conservation lighting upgrades as described in attached Board Report No. 323-11/12.
2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the Oversight Committee's website.
3. The District is directed to track the above recommendation and to report on the adoption, rejection, or pending status of the recommendations as provided in section 6.2 of the Charter and Memorandum of Understanding between the Oversight Committee and the District.

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ADOPTED on June 20, 2012, by the following vote:

AYES: **13**

ABSTAIN: **0**

NAYS: **0**

ABSENT: **2**

Stephen English
Stephen English
Chair

Pamela Schmidt
Pamela Schmidt
Secretary