



LOS ANGELES UNIFIED SCHOOL DISTRICT

Board of Education Report

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|---------------------------|---|
| Report Number: | 207-11/12 |
| Date: | April 10, 2012 |
| Subject: | Amendment to the Facilities Services Division Strategic Execution Plan to Update the Photovoltaic Program |
| Responsible Staff: | 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 amend the Facilities Services Division (FSD) Strategic Execution Plan (SEP) to update the Photovoltaic (PV) program and take the following associated actions:

1. Cancel two PV installation locations that have been determined to be no longer feasible and/or cost effective:
 - Franklin Primary Center
 - Business Services Division

Approximately \$10.3 Million of PV Program funds was previously approved for installations at these sites and will be made available for other installation locations included in this action. These installations were anticipated to generate approximately 1.64 megawatts (MW) of PV energy.

2. Define and approve seven new PV installation locations with a combined budget of \$10.3 Million:
 - Jordan High School
 - Sun Valley Middle School
 - Bannekar Elementary School
 - Curtis Middle School
 - Elizabeth Learning Center
 - Griffith Joyner Elementary School
 - Balboa Magnet School

Once complete, these installations are anticipated to generate 1.64 MW of PV energy.



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Background:

One of the guiding principles of the District's current Bond Program is to provide green, sustainable neighborhood schools for its students and the community at large. This has largely been achieved by incorporating sustainable concepts that help promote a healthy learning environment that is energy and water efficient and minimizes maintenance demands into the design of school construction projects

Currently there are 13 installations in operation throughout the District generating 5.1 MW of PV energy that are anticipated to avoid at least \$708,440 in General Fund costs over the next year:

- Ann Street Elementary School
- Banning High School
- Canoga Park High School
- Cleveland High School
- Edward R. Roybal Learning Center
- El Dorado Elementary School
- Gage Middle School
- Local District 5
- Narbonne Senior High School
- Pico Rivera Warehouse
- South Gate High School
- Southeast Middle School
- White Middle School

In addition, there are nine PV system installations in construction, 29 pending construction start, and five pending award of the design/construction contract.

Expected Outcomes: Should the Board approve the proposed actions; the PV Program will be updated with the cancellation of two previously approved installation locations and the addition of seven new installation locations.

Overall there will be 63 total installation locations in the District's PV Program, including the Newman Nutrition Center that was delayed as a result of the December 13, 2011 Board amended and adopted prioritization and funding strategy for school IT network infrastructure upgrades (Board Report #086-11/12). In total, the installations are anticipated to generate approximately 20.9 MW of PV energy and avoid at least \$112 Million in General Fund costs over a 20-year period.

Board Options and Consequences:

Failure or delay of approval will postpone the execution and implementation of the proposed installations and the associated General



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Fund benefits from the cost avoidance to the utility budget.

Policy Implications: The installation of PV systems will help move the District closer to achieving its goals of reducing its energy consumption and promoting a healthier environment.

Budget Impact: These proposed actions will not impact the overall PV Program budget of \$143,326,366. The funding sources include:

- \$13,734,062 in LADWP settlement funds
- \$31,592,304 in estimated incentive funds
- \$98,000,000 in local Bond funds

The PV Program, once completed as currently defined, is estimated to generate approximately 20.9 MW of PV energy and avoid at least \$112 Million in General Fund costs over a 20-year period. However, the .473 MW of PV energy anticipated to be generated at the Newman Nutrition Center, the associated General Fund cost avoidance and rebates of \$821,399, will be delayed until funding is restored. On December 13, 2011, the Board amended and adopted a prioritization and funding strategy for school IT network infrastructure upgrades. This item delayed \$99 Million from Board-Prioritized Facilities Programs to fund IT upgrade projects at 138 schools. The funding strategy included \$2 Million associated with the installation of PV at the Newman Nutrition Center (Board Report #086-11/12).

Bond Oversight Committee Recommendation: This item was considered by the School Construction Bond Citizens' Oversight Committee (BOC) at its meeting of March 21, 2012. The BOC adopted the attached resolution by a vote of "9" ayes and "0" nays.

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

Issues and Analysis: Since June 2008, the Board has approved five separate actions related to the installation of PV systems including a number of changes to the PV Program as a result of:

- Unexpected changes in the direction of the current Bond Program including:
 - Initiation of Districtwide assessment and planning effort
 - Desire to minimize the use of Certificates of Participation (COPs) as a result of the District's budget crisis
 - Reallocation of Bond Program funds



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- Unforeseen conditions at school and project sites including:
 - Definition of new projects including campus-wide redevelopment projects
 - De-funding of projects
 - Development of conceptual campus master plans to redevelop school sites
 - Installation of PV system included in the scope of a larger Board-approved project
- Enhanced Division of the State Architect (DSA) requirements for PV installations on rooftops including:
 - Increased number of required roof penetrations
 - Increased number of required roof attachments
- Completion of PV installations including:
 - Actual and anticipated cost of installation and/or PV system size differ

Attachments: Attachment A – PV Program Installation Locations

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.

Attachment A
Photovoltaic Program - Installation Locations
FSD Strategic Execution Plan

| No. | Loc Code | Site Name | Local District | Board District | PV System Size (kW) | Installation Type | Estimated Cost | Status | Estimated Completion Date |
|-----|----------|------------------------------------|----------------|----------------|---------------------|--------------------------------|-------------------|--------------|---------------------------|
| 1 | 2137 | Ann Street ES | 5 | 2 | 122 | Rooftop | \$1,014,333 | Completed | Completed |
| 2 | 8529 | Banning HS | 8 | 7 | 795 | Rooftop | \$5,608,348 | Completed | Completed |
| 3 | 3577 | Bellingham ES | 2 | 3 | 85 | Rooftop | \$665,109 | Not Awarded | Q1 2013 |
| 4 | 8080 | Byrd MS | 2 | 6 | 362 | Shade Structure | \$2,248,953 | Construction | Q1 2012 |
| 5 | 8571 | Canoga Park HS | 1 | 3 | 273 | Rooftop | \$2,260,243 | Completed | Completed |
| 6 | 2940 | Central Region ES #14 | 4 | 5 | 93 | Rooftop | \$681,330 | Not Awarded | Q1 2013 |
| 7 | 2307 | Central Region ES #20 | 4 | 2 | 100 | Rooftop | \$734,983 | Not Awarded | Q1 2013 |
| 8 | 8577 | Central Region HS #13 | 4 | 5 | 484 | Shade Structure | \$3,478,998 | Awarded | Q3 2012 |
| 9 | 8583 | Chatsworth HS | 1 | 3 | 491 | Shade Structure | \$3,624,200 | Not Awarded | Q1 2013 |
| 10 | 8590 | Cleveland HS | 1 | 3 | 388 | Rooftop | \$3,018,325 | Completed | Completed |
| | 8590 | Cleveland HS | | | 132 | Shade Structure | \$885,193 | Construction | Q2 2012 |
| 11 | 8607 | East Valley Area New HS #1B | 2 | 3 | 431 | Shade Structure | \$2,847,901 | Awarded | Q3 2012 |
| 12 | 8116 | East Valley Area New MS #1 | 2 | 3 | 330 | Shade Structure | \$2,188,038 | Awarded | Q3 2012 |
| 13 | 8117 | East Valley Area New MS #2 | 1 | 6 | 301 | Shade Structure | \$1,918,837 | Awarded | Q3 2012 |
| 14 | 3541 | El Dorado ES | 2 | 6 | 181 | Rooftop | \$1,652,044 | Completed | Completed |
| 15 | 8151 | Gage MS | 6 | 5 | 313 | Shade Structure | \$1,830,328 | Completed | Completed |
| 16 | 1404 | Gardena Bus Garage | 8 | 7 | 336 | Shade Structure | \$3,104,594 | Awarded | Q2 2012 |
| 17 | 8664 | Gardena HS | 8 | 7 | 302 | Shade Structure | \$2,005,657 | Awarded | Q3 2012 |
| 18 | 8683 | Grant HS | 2 | 3 | 126 | Shade Structure | \$858,934 | Construction | Q2 2012 |
| 19 | 1366 | LD 5 Office | 5 | 2 | 326 | Shade Structure | \$2,103,289 | Completed | Completed |
| 20 | 1393 | M&O Central 3 Office | 3 | 2 | 439 | Rooftop and Shade Structure | \$3,019,998 | Awarded | Q3 2012 |
| 21 | 1428 | M&O North Office | 2 | 6 | 158 | Shade Structure | \$1,385,730 | Awarded | Q3 2012 |
| 22 | 8779 | Narbonne HS | 8 | 7 | 444 | Shade Structure | \$2,520,870 | Completed | Completed |
| 23 | 8853 | Orthopaedic Hospital HS | 5 | 2 | 462 | Shade Structure | \$3,386,926 | Awarded | Q3 2012 |
| 24 | 0525 | Pico Rivera Warehouse | N/A | N/A | 1,000 | Rooftop | (Paid by PPA) \$0 | Completed | Completed |
| 25 | 8636 | Polytechnic HS | 2 | 6 | 715 | Rooftop | \$4,681,846 | Construction | Q3 2012 |
| 26 | 8814 | Reseda HS | 1 | 3 | 348 | Shade Structure | \$2,414,535 | Awarded | Q3 2012 |
| 27 | 8544 | Roybal Learning Center | 4 | 2 | 525 | Rooftop | \$3,900,063 | Completed | Completed |
| 28 | 8843 | San Fernando HS | 2 | 6 | 514 | Shade Structure | \$3,385,280 | Awarded | Q3 2012 |
| 29 | 8358 | San Fernando MS | 2 | 6 | 343 | Shade Structure | \$2,531,747 | Not Awarded | Q1 2013 |
| 30 | 8881 | South East HS | 6 | 5 | 464 | Shade Structure | \$2,882,130 | Construction | Q1 2012 |
| 31 | 8871 | South Gate HS | 6 | 5 | 197 | Shade Structure | \$1,178,189 | Completed | Completed |
| 32 | 2311 | South Region ES #10 | 7 | 1 | 145 | Shade Structure and/or Rooftop | \$964,060 | Awarded | Q3 2012 |
| 33 | 2312 | South Region ES #11 | 7 | 1 | 145 | Shade Structure | \$1,307,023 | Awarded | Q3 2012 |
| 34 | 2313 | South Region ES #12 | 7 | 7 | 148 | Shade Structure | \$1,348,447 | Awarded | Q3 2012 |
| 35 | 6884 | South Region ES #5 | 6 | 5 | 227 | Shade Structure and/or Rooftop | \$1,492,563 | Awarded | Q3 2012 |
| 36 | 2309 | South Region ES #9 | 6 | 5 | 155 | Shade Structure and/or Rooftop | \$1,041,771 | Awarded | Q3 2012 |
| 37 | 8937 | South Region HS #15 | 8 | 7 | 729 | Rooftop & Two Shade Structures | \$5,265,499 | Awarded | Q3 2012 |
| 38 | 8867 | South Region HS #2 | 7 | 7 | 363 | Shade Structure | \$2,239,453 | Awarded | Q3 2012 |
| 39 | 8868 | South Region HS #4 | 8 | 7 | 192 | Shade Structure | \$1,485,790 | Awarded | Q3 2012 |
| 40 | 8921 | South Region HS #9 | 6 | 5 | 375 | Shade Structure | \$2,404,373 | Awarded | Q3 2012 |
| 41 | 8882 | Southeast Area New Learning Center | 6 | 5 | 248 | Shade Structure | \$1,617,995 | Awarded | Q3 2012 |
| 42 | 8153 | Southeast MS | 6 | 5 | 230 | Shade Structure | \$1,409,102 | Completed | Completed |
| 43 | 8880 | Taft HS | 1 | 4 | 492 | Shade Structure | \$3,351,628 | Construction | Q2 2012 |
| 44 | 7402 | Valley Region ES #10 | 1 | 3 | 155 | Shade Structure | \$1,027,317 | Awarded | Q3 2012 |
| 45 | 2302 | Valley Region ES #13 | 1 | 6 | 215 | Shade Structure | \$1,352,538 | Awarded | Q3 2012 |

Attachment A
Photovoltaic Program - Installation Locations
FSD Strategic Execution Plan

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| No. | Loc Code | Site Name | Local District | Board District | PV System Size (kW) | Installation Type | Estimated Cost | Status | Estimated Completion Date |
|-----|----------|---|----------------|----------------|---------------------|-------------------|----------------|--------------------------------|---------------------------|
| 46 | 4521 | Valley Region Hesby Span K-8 Reopening | 1 | 4 | 128 | Shade Structure | \$981,897 | Awarded | Q3 2012 |
| 47 | 8901 | Valley Region HS #5 | 2 | 6 | 450 | Shade Structure | \$2,967,542 | Awarded | Q3 2012 |
| 48 | 8905 | Valley Region HS #9 | 2 | 6 | 422 | Shade Structure | \$2,791,515 | Awarded | Q3 2012 |
| 49 | 8433 | Valley Region MS #3 | 2 | 6 | 744 | Shade Structure | \$4,923,250 | Awarded | Q3 2012 |
| 50 | 2303 | Valley Region Porter Ranch Span K-8 #2 | 1 | 3 | 242 | Shade Structure | \$1,595,477 | Awarded | Q3 2012 |
| 51 | 7408 | Valley Region Span K-8 #1 | 2 | 6 | 152 | Shade Structure | \$999,339 | Awarded | Q3 2012 |
| 52 | 8907 | Venice HS | 3 | 4 | 180 | Shade Structure | \$1,232,103 | Construction | Q2 2012 |
| 53 | 8928 | Washington Preparatory HS | 8 | 1 | 267 | Shade Structure | \$1,822,200 | Construction | Q2 2012 |
| 54 | 8943 | Westchester HS | T | 4 | 738 | Shade Structure | \$5,050,747 | Construction | Q2 2012 |
| 55 | 8487 | White MS | 8 | 7 | 313 | Shade Structure | \$1,849,285 | Completed | Completed |
| 56 | 8721 | Jordan High School | T | 7 | 360 | Shade Structure | \$2,260,797 | Awaiting Board Approval | Q1 2013 |
| 57 | 8396 | Sun Valley Middle School | 2 | 6 | 275 | Shade Structure | \$1,726,997 | Awaiting Board Approval | Q1 2013 |
| 58 | 1941 | Bannekar Elementary School | 8 | 7 | 220 | Shade Structure | \$1,381,598 | Awaiting Board Approval | Q1 2013 |
| 59 | 8103 | Curtis Middle School | 8 | 7 | 250 | Shade Structure | \$1,569,998 | Awaiting Board Approval | Q1 2013 |
| 60 | 3548 | Elizabeth Learning Center | 6 | 5 | 220 | Shade Structure | \$1,381,598 | Awaiting Board Approval | Q1 2013 |
| 61 | 5849 | Griffith Joyner Elementary School | T | 7 | 220 | Shade Structure | \$1,381,598 | Awaiting Board Approval | Q1 2013 |
| 62 | 2269 | Balboa Magnet School | 1 | 3 | 95 | Shade Structure | \$596,599 | Awaiting Board Approval | Q1 2013 |
| 63 | 1472 | Newman Nutrition Center | 5 | 2 | - | Shade Structure | \$352,979 | Funding Temporarily Redirected | |
| | | Scope to be added to one or more Board-approved installation location | | | 253 | - | \$7,136,339 | | |

Funding Sources:

Bond Funds: \$98,000,000
Estimated Incentive Funds: \$31,592,304
DWP Settlement Funds: \$13,734,062
Total PV Sources: **\$143,326,366**

Uses:

Estimated Costs: \$142,326,366
Reserve: \$1,000,000
Total PV Uses: **\$143,326,366**

SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE

Stephen English, Chair

L.A. City Controller's Office

John Naimo, Vice ChairL.A. County Auditor-Controller's
Office**Pamela Schmidt, Secretary**

Early Education Coalition

Maria Cabildo, Executive Committee

LAUSD Student Parent

Ilene Ashcraft, Executive Committee

Tenth District PTSA

Bill Brewington

Thirty-First District PTSA

Eva Hain

AARP

James Herr

L.A. Chamber of Commerce

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

Elizabeth LugoLAUSD Student Parent
(Alternate)**Becki Nadybal**

L.A. Mayor's Office (Alternate)

Wendy WatanabeL.A. County Auditor-Controller's
Office (Alternate)**(Vacant)**

American Institute of Architects

(Vacant)

California Tax Reform

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 2012-12
BOARD REPORT NO. 207-11/12
**AMENDMENT TO THE FACILITIES SERVICE DIVISION STRATEGIC EXECUTION PLAN TO
UPDATE THE PHOTOVOLTAIC PROGRAM**

WHEREAS, on December 13, 2011, respectively the Board of Education approved Photovoltaic (PV) Program (Board Report No. 086-11/12) to install 21.4 MW at 59 sites with a budget of \$144,147,765, for an anticipated cost avoidance of \$146,000,000 in General Funds over 20-year period.

WHEREAS, District staff proposes to cancel two PV installation locations that have been determined to be no longer feasible and/or cost effective:

- Franklin Primary Center
- Business Services Division

Approximately \$10.3 Million of PV Program funds was previously approved for installations at these sites and will be made available for other installation locations included in this action. These installations were anticipated to generate approximately 1.64 megawatts (MW) of PV energy.

WHEREAS, District staff proposes to define and approve seven new PV installation locations with a combined budget of \$10.3 Million:

- Jordan High School
- Sun Valley Middle School
- Bannekar Elementary School
- Curtis Middle School
- Elizabeth Learning Center
- Griffith Joyner Elementary School
- Balboa Magnet School

Bond Oversight Committee

Once complete, these installations are anticipated to generate 1.64 MW of PV energy.

WHEREAS, should the Board approve the proposed actions, overall there will be 63 total installation locations in the District's PV Program, including the Newman Nutrition Center that was delayed as a result of the December 13, 2011 Board amended and adopted prioritization and funding strategy for school IT network infrastructure upgrades (Board Report #086-11/12).

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

NOW, THEREFORE, BE IT RESOLVED THAT

1. The School Construction Bond Citizens' Oversight Committee recommends that the Board of Education adopt an amendment to update the Facilities Strategic Execution Plan, to cancel two PV installation locations that have been determined to be no longer feasible and/or cost effective and to add seven new PV installation locations with a combined budget of \$10.3 Million as described in attached Board Report No. 207-11/12.
2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the Bond Oversight Committee's website.
3. That a written response as required by the Charter and Memorandum of Understanding between the Oversight Committee and the Board be provided to the Oversight Committee within 30 days, reporting either on action taken or proposed to be taken in response to this resolution and each recommendation herein.

ADOPTED on March 21, 2012 by the following vote:

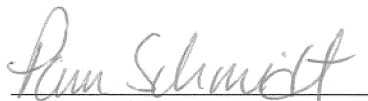
AYES: 9

ABSTAIN: 0

NAYS: 0

ABSENT: 4


John Naimo
Vice Chair


Pamela Schmidt
Secretary