



## Board of Education Report

**File #:** Rep-166-24/25

**Agenda Date:** 2/11/2025

**In Control:** Facilities

### **Define and Approve 21 Solar Photovoltaic Projects and Amend the Facilities Services Division Strategic Execution Plan to Incorporate Therein**

Facilities Services Division and Eco-Sustainability Office

#### **Brief Description:**

(Define and Approve 21 projects to provide solar photovoltaic systems (PV Projects) and Amend the Facilities Services Division Strategic Execution Plan to Incorporate Therein) Recommends the definition and approve 21 projects to provide solar photovoltaic systems (PV Projects), as listed on Exhibit A, and amend the Facilities Services Division (Facilities) Strategic Execution Plan (SEP) to incorporate therein for a total combined budget of \$122,406,423.

#### **Action Proposed:**

Define and approve 21 projects to provide solar photovoltaic systems (PV Projects), as listed on Exhibit A, and amend the Facilities Services Division (Facilities) Strategic Execution Plan (SEP) to incorporate therein. The total combined budget for these proposed PV Projects is \$122,406,423.

Authorize the Chief Facilities Executive, Chief Eco-Sustainability Officer, Chief Procurement Officer and/or their designee(s) to execute all instruments necessary, as legally permissible, to implement the proposed PV Projects, including budget modifications and the purchase of equipment and materials.

#### **Background:**

On August 7, 2024, the Board of Education (Board) adopted a resolution ordering an election on November 5, 2024, to authorize the issuance of school bonds (Measure US). The same action approved the Proposed 2024 Bond Priorities, Funding Targets and Implementation Strategies for Measure US, which help guide the identification of sites and development of project proposals. The School Upgrade Program (SUP), representing the current phase of the bond program, has been updated with the identified funding targets after the approval of Measure US by voters on November 5, 2024.

Pursuant to the Board Resolution Transitioning Los Angeles Unified School District to 100% Clean, Renewable Energy Resulting in Healthier Students and More Sustainable, Equitable Communities adopted on December 03, 2019 (Clean Energy Resolution), funding has been prioritized within the SUP under the category of need for School Upgrades and Reconfigurations to Support Wellness, Health, Athletics, Learning, and Efficiency. Projects to install photovoltaic panels, electrification, and electrical infrastructure fall under this SUP category of need. The installation of PV systems to generate electricity from solar power offers the District the opportunity to significantly offset its energy costs over the long term and to achieve its goals for environmental stewardship and clean energy.

The school sites were selected based on high energy use within the geographic areas of two utility providers, Los Angeles Department of Water and Power (LADWP) and Southern California Edison (SCE). Other factors considered were sites that had been identified for future roof replacement, and sites with newly installed roofs

**In Control:** Facilities

---

to avoid roof warranty issues and minimize roof penetrations that could cause water leakage. In addition to the PV systems, 13 of these PV Projects will also install Level 2 electric vehicle (EV) charging stations and/or conduit for future charging stations. The school sites are located across all seven Board Districts and Regions within Los Angeles Unified.

Construction activities related to the installation of the PV system is anticipated to begin in the third quarter of 2025 and will be completed by the third quarter of 2027.

**Bond Oversight Committee Recommendations:**

This item was considered by the School Construction Bond Citizens' Oversight Committee (BOC) at its meeting on December 12, 2024, as referenced in Exhibit C. The presentation that was provided is included as Exhibit D. Staff has concluded that this proposed Facilities SEP amendment is in alignment with BOC recommendations and will facilitate the successful implementation of the Facilities SEP.

**Expected Outcomes:**

Define and approve the proposed PV Projects and amend the Facilities SEP to incorporate therein. Approval will authorize staff to proceed with the implementation of the proposed PV Projects and expenditure of Bond Program funds.

Approval of the proposed action will permit activities in support of solar photovoltaic projects at 21 school sites. Staff estimates that the PV Projects will optimize the District's energy generation, conservation, and cost avoidance pursuant to California Government Code §4217.10 et seq. Based on the proposed PV system sizes as shown in Exhibit A, the Eco-Sustainability Office estimates the net cost avoidance to the District including project costs and operations and maintenance costs is anticipated to be up to approximately \$45.7 million over the 25-year lifespan of the equipment due to on-site electricity generation from the PV systems and the benefits of electric vehicle charging stations and infrastructure. Based on the same assumptions, the utility cost avoidance to the General Fund over 25 years is anticipated to be up to approximately \$168 million. The anticipated cost avoidance in energy costs is set forth in Exhibit B.

**Board Options and Consequences:**

Approval will allow staff to develop, design, and construct the proposed PV Projects.

If staff's proposal is not approved, the proposed improvements will not commence, the District will not benefit from the anticipated cost avoidance in energy costs created by these PV Projects, and this progress towards meeting the goals of the Clean Energy Resolution will not occur.

**Policy Implications:**

The proposal does not impact Los Angeles Unified's policies. The proposal supports the implementation of the Clean Energy Resolution. The proposal is consistent with the District's long-term goal to address unmet school facilities needs and significantly improve the conditions of aging and deteriorating school facilities as described in the District's local bond measures K, R, Y, Q, RR, and US. The proposed action advances Los Angeles Unified's 2022-2026 Strategic Plan Pillar 4 Operational Effectiveness Modernizing Infrastructure by installing PV systems.

**Budget Impact:**

The total combined budget for the 21 PV Projects is \$122,406,423. The proposed PV Projects will be funded with Bond Program funds earmarked for school upgrades and reconfigurations to support wellness, health,

athletics, learning, and efficiency. Separately, after the energy contractors have secured permission from the utility providers to operate the PV systems, the District will make annual payments to the energy contractors for Operations & Maintenance (O&M) and Performance Guarantee amounts estimated at \$9.9 million over 25 years funded by General Funds.

The PV Project budgets were prepared based on the current information known, and assumptions about each proposed PV Project's scope, site conditions, and market conditions. The PV Project budgets will be reviewed throughout the planning, design, and construction phases as new information becomes known or unforeseen conditions arise and will be adjusted accordingly to enable the successful completion of the proposed PV Projects.

Based on the proposed PV system sizes as shown in Exhibit A, the Eco-Sustainability Office estimates this action is projected to provide up to approximately \$45.7 million in net cost avoidance to the District over a 25-year period including project costs and operations and maintenance costs. Based on the same assumptions, the cost avoidance to the General Fund is anticipated to be up to approximately \$168 million as set forth in Exhibit B.

**Student Impact:**

Once completed, the proposed PV Projects will help reduce energy consumption, thus lowering the utilities cost impact to the General Fund and allowing for more financial resources to be allocated to support educational programs. Additionally, clean renewable energy technologies at schools, such as carport and rooftop solar PV systems and Level 2 EV charging stations, may provide an educational opportunity for students to learn about real-world energy issues. Such project-based and hands-on experience can help further science, technology, engineering, and mathematics (STEM) education at these campuses serving approximately 23,500 students.

**Equity Impact:**

The school sites were selected based on high energy use within the geographic areas of two utility providers, LADWP and SCE. Other factors considered were sites that had been identified for future roof replacement, and sites with newly installed roofs to avoid roof warranty issues and minimize roof penetrations that could cause water leakage.

**Issues and Analysis:**

The proposed action will enable Los Angeles Unified to install up to 15 megawatts (MW) of solar power on 21 school sites. The PV Projects require compliance with all laws, rules, regulations, and standards for public school construction.

Seven of these PV Projects were initially approved by the Board under a Pilot Program (Pilot Program) in October 2021. These projects were originally bid via Request for Proposal (RFP) where the agreements were structured as power purchase agreements by which the cost of design and construction were to be funded by the energy contractors at no cost to the District. The District planned to pay the contractors for energy generated by the systems over 25 years from General Funds. However, due to extreme inflation experienced shortly after that Board action, the contracts associated with Pilot Program were not executed. Since that time, bond funds have been identified as the most appropriate funding source for these projects.

The 14 remaining PV Projects (Phase 1) resulted from an RFP issued in April 2022. These Phase 1 PV Projects were originally approved by the Board on January 23, 2024, to execute agreements. At that time, the Phase 1 PV Projects were approved with funding from the General Fund using vendor financing. The District would

have made annual payments to the energy contractors over a 25-year period once the PV systems were approved to be activated by the utility providers. Subsequent to the January 2024 Board approval, it was determined that the terms of the vendor financing were unfavorable, and the planned funding source was changed to bond funds. The Office of Environmental Health and Safety (OEHS) will evaluate the proposed PV Projects in accordance with the California Environmental Quality Act (CEQA).

Staff proposes that the District utilize California Government Code §4217.12, which allows public agencies to use the procurement method it determines is in the best interests of the public agency. To satisfy the requirements of California Government Code §4217.12, the Board shall adopt a proposed Resolution, making findings and determinations of the energy cost avoidance, at a regularly scheduled public hearing of which public notice is given at least two weeks in advance. Public Notice of the proposed Resolution and Public Hearing will be provided at the January 14, 2025, meeting of the Board.

**Attachments:**

Exhibit A: Scope, Budget, and Schedule for 21 Solar Photovoltaic Projects

Exhibit B: Anticipated Cost Avoidance Chart

Exhibit C: BOC Resolution

Exhibit D: BOC Presentation

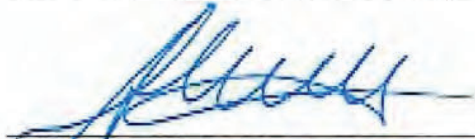
**Informatives:**

None

**Submitted:**

12/03/24

RESPECTFULLY SUBMITTED,



ALBERTO M. CARVALHO  
Superintendent

APPROVED BY:



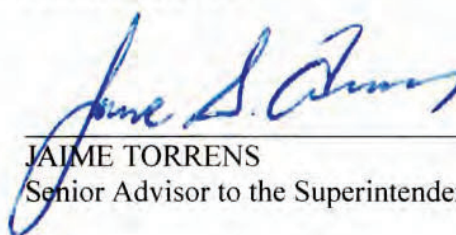
PEDRO SALCIDO  
Deputy Superintendent  
Business Services and Operations

REVIEWED BY:



DEVORA NAVERA REED  
General Counsel

APPROVED BY:



JAIME TORRENS  
Senior Advisor to the Superintendent

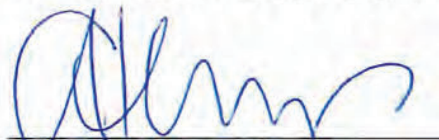
✓ Approved as to form.

REVIEWED BY:



NOLBERTO DELGADILLO  
Deputy Chief Financial Officer

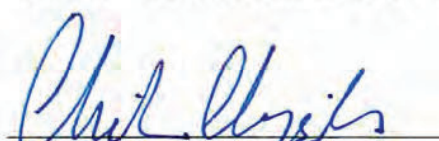
APPROVED & PRESENTED BY:



KRISZTINA TOKES  
Chief Facilities Executive  
Facilities Services Division

✓ Approved as to budget impact statement.

APPROVED & PRESENTED BY:



CHRISTOS CHRYSILIOU  
Chief Eco-Sustainability Officer  
Eco-Sustainability Office

**LOS ANGELES UNIFIED SCHOOL DISTRICT**  
**Board of Education Report**

**Exhibit A**  
**Scope, Budget, and Schedule for 21 Solar Photovoltaic Projects**

#	BD	Region	School	PV* System Size (kW)	EV* Qty.	Project Budget	Const. Start	Const. Comp.
1	5	East	Bell HS	959	0	\$7,274,924	Q4-2025	Q3-2026
2	1	South	Crenshaw Magnet HS	1,207	12	\$9,300,587	Q4-2025	Q3-2026
3	1	South	Dorsey HS	846	0	\$6,862,632	Q3-2026	Q1-2027
4	7	South	Drew MS	691	8	\$5,723,453	Q4-2026	Q3-2027
5	7	South	Edison MS	631	9	\$5,215,047	Q4-2026	Q3-2027
6	2	East	Franklin HS	763	0	\$6,529,607	Q4-2025	Q3-2026
7	7	South	Fremont HS	1,390	17	\$10,296,032	Q4-2026	Q3-2027
8	7	East	Los Angeles Academy MS	791	0	\$6,117,889	Q4-2026	Q3-2027
9	1	South	Muir MS	612	0	\$4,855,984	Q3-2026	Q1-2027
10	3	North	Northridge MS	674	2	\$4,888,613	Q3-2025	Q2-2026
11	6	North	Pacoima MS	588	2	\$4,237,615	Q3-2025	Q2-2026
12	4	North	Sherman Oaks Center for Enriched Studies	527	2	\$4,235,022	Q4-2025	Q3-2026
13	6	North	Sun Valley Magnet	423	2	\$3,038,334	Q4-2025	Q3-2026
14	4	North	Sutter MS	510	2	\$4,265,486	Q4-2025	Q3-2026
15	1	West	Los Angeles Center for Enriched Studies	865	4	\$7,416,368	Q4-2025	Q3-2026
16	1	West	Los Angeles HS	982	0	\$7,707,349	Q1-2026	Q4-2026
17	7	South	Markham MS	706	5	\$7,093,801	Q3-2026	Q1-2027
18	3	North	Mulholland MS	556	13	\$5,973,080	Q1-2026	Q4-2026
19	3	North	Nobel Charter MS	590	0	\$5,032,329	Q1-2026	Q4-2026
20	5	East	San Miguel ES	264	0	\$1,681,284	Q3-2026	Q1-2027
21	5	East	South Gate MS	441	11	\$4,660,987	Q1-2026	Q4-2026
			<b>TOTAL</b>	<b>15,016</b>	<b>89</b>	<b>\$122,406,423</b>		

\* PV = Photovoltaic; EV = Electric Vehicle Chargers/Infrastructure

*Schedule:* Construction is anticipated to begin in Q3-2025 and be completed in Q3-2027.

**LOS ANGELES UNIFIED SCHOOL DISTRICT**  
**Board of Education Report**

**Exhibit B**  
**Anticipated Cost Avoidance Chart\***

#	BD	Region	School	Est. 25 Yr. Energy Production	Est. 25 Yr. Net Cost Avoidance	Est. 25 Yr. General Fund Savings
1	5	East	Bell HS	\$12,002,923	\$4,453,097	\$11,728,021
2	1	South	Crenshaw Magnet HS	\$14,867,756	\$5,237,009	\$14,537,596
3	1	South	Dorsey HS	\$9,704,221	\$2,582,505	\$9,445,137
4	7	South	Drew MS	\$8,047,624	\$2,086,869	\$7,810,322
5	7	South	Edison MS	\$7,612,471	\$2,205,976	\$7,421,023
6	2	East	Franklin HS	\$9,348,748	\$2,533,690	\$9,063,297
7	7	South	Fremont HS	\$15,790,589	\$5,187,324	\$15,483,356
8	7	East	Los Angeles Academy MS	\$9,090,696	\$2,707,075	\$8,824,964
9	1	South	Muir MS	\$7,051,489	\$1,944,445	\$6,800,429
10	3	North	Northridge MS	\$8,255,456	\$2,084,279	\$6,972,892
11	6	North	Pacoima MS	\$7,499,496	\$2,080,710	\$6,318,325
12	4	North	Sherman Oaks Center for Enriched Studies	\$6,960,500	\$1,631,772	\$5,866,794
13	6	North	Sun Valley Magnet	\$5,684,833	\$1,722,549	\$4,760,883
14	4	North	Sutter MS	\$6,643,098	\$1,326,346	\$5,591,832
15	1	West	Los Angeles Center for Enriched Studies	\$10,310,055	\$2,536,602	\$9,952,970
16	1	West	Los Angeles HS	\$10,556,994	\$2,471,494	\$10,178,843
17	7	South	Markham MS	\$8,458,019	\$1,052,827	\$8,146,628
18	3	North	Mulholland MS	\$6,746,586	\$508,097	\$6,481,177
19	3	North	Nobel Charter MS	\$6,319,192	\$1,039,133	\$6,071,462
20	5	East	San Miguel ES	\$2,154,002	\$264,340	\$1,945,625
21	5	East	South Gate MS	\$4,894,993	\$183	\$4,661,170
			<b>TOTAL</b>	<b>\$177,999,741</b>	<b>\$45,656,322</b>	<b>\$168,062,746</b>

\* Anticipated cost avoidance calculations provided by the Eco-Sustainability Office



**SCHOOL CONSTRUCTION BOND CITIZENS' OVERSIGHT COMMITTEE**

**D. Michael Hamner, FAIA, Chair**  
American Institute of Architects  
**Robert Campbell, Vice-Chair**  
L.A. Co. Auditor-Controller's Office  
**Dr. Samantha Rowles, Secretary**  
LAUSD Student Parent  
**Patrick MacFarlane, Executive Committee**  
Early Education Coalition  
**Scott Pansky, Executive Committee**  
L.A. Area Chamber of Commerce

**Joseph P. Buchman – Legal Counsel**  
Burke, Williams & Sorensen, LLP  
**Lori Raineri and Keith Weaver – Oversight Consultants**  
Government Financial Services Joint Powers Authority

**Neelura Bell**  
CA Charter School Association  
**Sandra Betts**  
CA Tax Reform Assn.  
**Chad Boggio**  
L.A. Co. Federation of Labor AFL-CIO  
**Aleigh Lewis**  
L.A. City Controller's Office  
**Jennifer McDowell**  
L.A. City Mayor's Office  
**Brian Mello**  
Assoc. General Contractors of CA  
**Santa Ramirez**  
Tenth District PTSA

**William O. Ross IV**  
31<sup>st</sup> District PTSA  
**Dr. Bevin Ashenmiller (Alternate)**  
Tenth District PTSA  
**Ashley Kaiser (Alternate)**  
Assoc. General Contractors of CA  
**Connie Yee (Alternate)**  
L.A. Co. Auditor-Controller's Office  
**Vacant**  
Senior Citizens' Organization  
**Vacant**  
LAUSD Student Parent

**Timothy Popejoy**  
Bond Oversight Administrator  
**Perla Zitle**  
Bond Oversight Coordinator

**RESOLUTION 2024-38****BOARD REPORT 166-24/25**

**RECOMMENDING BOARD APPROVAL TO DEFINE AND APPROVE 21 SOLAR PHOTOVOLTAIC PROJECTS AND AMEND THE FACILITIES SERVICES DIVISION STRATEGIC EXECUTION PLAN TO INCORPORATE THEREIN**

WHEREAS, District Staff proposes that the Board of Education (Board) define and approve 21 solar photovoltaic projects (PV Projects) with a combined budget of \$122,406,423 as described in Board Report 166-24/25 attached hereto, and amend the Facilities Services Division (Facilities) Strategic Execution Plan (SEP) to incorporate therein, and

WHEREAS, District Staff also requests that the Board authorize the Chief Facilities Executive, Chief Eco-Sustainability Officer, Chief Procurement Officer and/or their designee(s), to execute all instruments necessary, as legally permissible, to implement the proposed PV Projects, including budget modifications and the purchase of equipment and materials; and

WHEREAS, On August 7, 2024, the Board adopted a resolution ordering an election on November 5, 2024, to authorize the issuance of school bonds (Measure US). The same action approved the Proposed 2024 Bond Priorities, Funding Targets and Implementation Strategies for Measure US, which help guide the identification of sites and development of project proposals. The School Upgrade Program (SUP), representing the current phase of the bond program, has been updated with the identified Funding Targets after the approval of Measure US by voters on November 5, 2024; and

WHEREAS, Pursuant to the Board Resolution Transitioning Los Angeles Unified School District to 100% Clean, Renewable Energy Resulting in Healthier Students and More Sustainable, Equitable Communities adopted on December 03, 2019 (Clean Energy Resolution), funding has been prioritized within the SUP under the category of need for School Upgrades and Reconfigurations to Support Wellness, Health, Athletics, Learning, and Efficiency. Projects to install photovoltaic panels, electrification, and electrical infrastructure fall under this SUP category of need; and



## **RESOLUTION 2024-38**

### **RECOMMENDING BOARD APPROVAL TO DEFINE AND APPROVE 21 SOLAR PHOTOVOLTAIC PROJECTS AND AMEND THE FACILITIES SERVICES DIVISION STRATEGIC EXECUTION PLAN TO INCORPORATE THEREIN**

WHEREAS, The installation of PV systems to generate electricity from solar power offers the District the opportunity to significantly offset its energy costs over the long term and to achieve its goals for environmental stewardship and clean energy; and

WHEREAS, The school sites were selected based on high energy use within the geographic areas of two utility providers, Los Angeles Department of Water and Power and Southern California Edison. Other factors considered were sites that had been identified for future roof replacement, and sites with newly installed roofs to avoid roof warranty issues and minimize roof penetrations that could cause water leakage; and

WHEREAS, In addition to the PV systems, 13 of these PV Projects will also install Level 2 electric vehicle (EV) charging stations and/or conduit for future charging stations; and

WHEREAS, The PV Projects will optimize the District's energy generation, conservation, and cost avoidance pursuant to California Government Code §4217.10 et seq. The net cost avoidance to the District including the project costs and operations and maintenance costs is anticipated to be up to approximately \$45.7 million over the 25-year lifespan of the equipment due to on-site electricity generation from the PV systems and the benefits of electric vehicle charging stations and infrastructure. Based on the same assumptions, the utility cost avoidance to the General Fund over 25 years is anticipated to be up to approximately \$168 million; and

WHEREAS, The proposed PV Projects are consistent with the Los Angeles Unified School District (Los Angeles Unified or District)'s Clean Energy Resolution and long-term goal to address unmet school facilities needs and significantly improve the conditions of aging and deteriorating school facilities as described in Los Angeles Unified local bond measures K, R, Y, Q, RR, and US; and

WHEREAS, The Board of Education's approval of the proposed PV Projects will authorize District Staff to proceed with the expenditure of bond funds to undertake the PV Projects in accordance with the provisions set forth in Los Angeles Unified local bond measures K, R, Y, Q, RR, and US; and

WHEREAS, The District's Office of the General Counsel has reviewed the proposed PV Projects and determined that they may proceed to the School Construction Citizens' Bond Oversight Committee (BOC) for its consideration for recommendation to the Board of Education; and

WHEREAS, District staff has concluded that this proposed Facilities SEP amendment will facilitate Los Angeles Unified's ability to successfully complete the Facilities SEP.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The BOC recommends that the Board of Education define and approve 21 solar photovoltaic projects with a combined budget of \$122,406,423 and amend the Facilities SEP to incorporate therein, as described in Board Report 166-24/25, a copy of which is attached hereto in the form it was presented to the BOC and is incorporated herein by reference.

**RESOLUTION 2024-38**

**RECOMMENDING BOARD APPROVAL TO DEFINE AND APPROVE 21 SOLAR PHOTOVOLTAIC PROJECTS AND AMEND THE FACILITIES SERVICES DIVISION STRATEGIC EXECUTION PLAN TO INCORPORATE THEREIN**

2. This resolution shall be transmitted to the Los Angeles Unified School District Board of Education and posted on the BOC'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 BOC and the District.

ADOPTED on December 12, 2024, by the following vote:

AYES: 9

ABSTENTIONS: 1

NAYS: 1

ABSENCES: 2

/Michael Hamner/

D. Michael Hamner  
Chair

/Robert Campbell/

Robert Campbell  
Vice-Chair



## 21 Solar Photovoltaic Projects

---

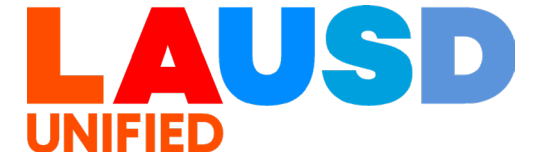


---

*Bond Oversight Committee Meeting  
December 12, 2024*



# Introduction and Measure US Overview



- August 2024 Board of Education:
  - Adopted Resolution ordering an election to authorize issuance of \$9B of school bonds.
  - Approved the “Proposed 2024 Bond Priorities Funding Targets and Implementation Strategies.”
  - These funding targets are integrated into the School Upgrade Program to support the continuation of the capital school facilities program and the effective operation of the bond program.
- Approved with over 67.9% of voter support at the November 5, 2024 Election
- \$9 billion School Upgrades and Safety Measure
- Proceeds will be used to:
  - Improve school safety
  - Update and right-size aging and deteriorating school facilities
  - Complete essential upgrades to school buildings and grounds
  - Enhance accessibility
  - Enhance and expand outdoor spaces and food services for students
  - Update learning technology and infrastructure
  - Upgrade older schools to help address facility inequities

# Measure US Implementation Strategies & Funding Targets

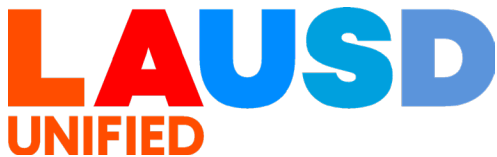


STRATEGIES TO IMPLEMENT 2024 BOND PRIORITIES	FUNDING TARGET
<b>Undertake major modernizations, upgrades and reconfigurations to school campuses*</b> <ul style="list-style-type: none"><li>- Replace or modernize school buildings with seismic vulnerabilities to meet today's building, safety, and learning standards - may include classrooms, core facilities such auditoriums/multi-purpose rooms, libraries, gymnasiums, and support and/or specialized spaces (e.g. career tech education (CTE), UTK, kindergarten, labs, the arts, robotics) (approximately \$2.8 billion)</li><li>- Replace old and structurally deficient relocatable classroom buildings with new up-to-date permanent classroom buildings, which may include specialized classrooms (e.g. UTK, kindergarten, CTE, the arts, labs, robotics) (approximately \$800 million)</li><li>- Upgrade/restore outdoor areas and play space - approximately \$1.25 billion<ul style="list-style-type: none"><li>o Create new green schoolyards/outdoor classrooms, including conversion of a portion of a schoolyard's hard surface into green space, and installation of permeable pavers and irrigation systems, may include removal of relocatable buildings to restore play space, replacement of paved areas, and the installation of shade structures and seating/gathering areas (approximately \$600 million)</li><li>o Upgrade play space and campus exteriors to replace deteriorated and unsafe pavement, create a schoolyard with approximately 30% sustainable green space, and provide a secure perimeter fence and buildings with a uniform appearance (approximately \$600 million)</li><li>o Install shade shelters over playground equipment at early education centers, elementary schools and special education centers to mitigate heat and improve the quality of outdoor environments for students (approximately \$50 million)</li></ul></li><li>- Upgrade elementary school classrooms and related facilities to provide age-appropriate spaces for UTK and kindergarten students, including furnishing and equipment (approximately \$70 million)</li><li>- Upgrade, expand, reconfigure, alter, and/or furnish and equip campuses for new and realigned programs (approximately \$70 million)</li></ul>	\$4,990,000,000

STRATEGIES TO IMPLEMENT 2024 BOND PRIORITIES	FUNDING TARGET
<b>Undertake critical replacements and upgrades of school building/site systems and components*</b> <ul style="list-style-type: none"><li>- Replace failing building/site systems and components (approximately \$932 million)</li><li>- Create secure school entrances by installing a camera/buzzer system (approximately \$15 million)</li></ul>	\$947,000,000
<b>Information Technology Infrastructure (IT) and System Upgrades</b> <ul style="list-style-type: none"><li>- Comprehensive enhancements to school audio systems - integration and enhancement of school IP-PA Speakers, IP-Based Master Clocks, Audio Enhancement Systems, and Mass Notification Systems (approximately \$521 million)</li><li>- Upgrade school IT network infrastructure systems, including local area networks and wireless local area networks, and for some, optic cabling (approximately \$342.9 million)</li><li>- Upgrade core IT network infrastructure system to optimize information applications and communications infrastructure (approximately \$22.1 million)</li></ul>	\$886,000,000
<b>School Upgrades and Reconfigurations to Support Wellness, Health, Athletics, Learning and Efficiency*</b> <ul style="list-style-type: none"><li>- Upgrade competitive athletic facilities (approximately \$230 million)</li><li>- Install photovoltaic panels, electrification and electrical infrastructure (approximately \$175 million)</li><li>- Campus improvements/enhancements determined by Region/Board District (approximately \$70 million)</li><li>- Upgrade/reconfigure/construct school-based student wellness facilities (approximately \$40 million)</li><li>- Upgrades to school libraries to provide updated furnishings and interior alterations (approximately \$10 million)</li><li>- Improvements to school facilities to support implementation of partner funded projects/programs (approximately \$10 million)</li><li>- Create sustainable outdoor learning spaces in collaboration with school-based and community-led efforts (approximately \$5 million)</li></ul>	\$540,000,000



# Measure US Implementation Strategies & Funding Targets



STRATEGIES TO IMPLEMENT 2024 BOND PRIORITIES	FUNDING TARGET
<b>School Cafeteria Upgrades*</b> <ul style="list-style-type: none"><li>- Construct and/or upgrade (regional) kitchen(s) to prepare fresh healthy student meals and support schools <i>(approximately \$300 million)</i></li><li>- Upgrade or replace school walk-in refrigerators/freezers <i>(approximately \$125 million)</i></li><li>- Upgrade elementary school cafeterias with new combi ovens and electrical infrastructure <i>(approximately \$20 million)</i></li><li>- Construct/install metal serving kiosk and electrical infrastructure as needed to support elementary school kitchens operating out of hot shacks <i>(approximately \$16 million)</i></li></ul>	\$461,000,000
<b>Charter School Facilities Upgrades and Expansions*</b> <ul style="list-style-type: none"><li>- Replace/upgrade school buildings, building systems and components, and grounds at District-owned facilities operated by charter schools or with a charter school co-location pursuant to Proposition 39, focusing on long-standing co-location sites <i>(approximately \$275 million)</i></li><li>- Renovate and furnish and equip school sites to provide charter schools with reasonably equivalent facilities pursuant to Proposition 39 <i>(approximately \$20 million) **</i></li><li>- Upgrades at sites, with a newly co-located charter school pursuant to Proposition 39, which are mutually agreed upon by both parties, to jointly improve the lives and learning conditions for students in all schools on the campus <i>(approximately \$5 million)</i></li></ul>	\$300,000,000
<b>Americans with Disabilities Act (ADA) Transition Plan Implementation*</b> <ul style="list-style-type: none"><li>- Upgrades/renovations/installations to remove physical barriers and/or enhance accessibility to support implementation of the ADA Transition Plan <i>(approximately \$250 million)</i></li><li>- Alterations and improvements to facilities to ensure a barrier-free learning environment as required by the ADA (Rapid Access Program) <i>(approximately \$8 million)</i></li></ul>	\$258,000,000

STRATEGIES TO IMPLEMENT 2024 BOND PRIORITIES	FUNDING TARGET
<b>Early Childhood Education Facilities Upgrades and Expansions*</b> <ul style="list-style-type: none"><li>- Replace/upgrade failing building/site systems and components and create outdoor learning environments</li></ul>	\$200,000,000
<b>IT Campus Safety Upgrades</b> <ul style="list-style-type: none"><li>- Install access control systems to regulate entry and monitor movement at exterior doors and improve safety of school facilities <i>(approximately \$9 million)</i></li><li>- Install video camera systems to improve safety of campus infrastructure <i>(approximately \$70.5 million)</i></li><li>- Upgrade school intrusion alarm and monitoring systems <i>(approximately \$89.5 million)</i></li></ul>	\$169,000,000
<b>Adult and Career Education Facilities Upgrades*</b> <ul style="list-style-type: none"><li>- Replace deficient buildings with new up-to-date permanent classroom building <i>(approximately \$93 million)</i></li><li>- Upgrade school information technology systems and equipment <i>(approximately \$30 million)</i></li><li>- Replace/upgrade failing building/site systems and components, so they are safe, functional and operational places to teach and learn <i>(approximately \$13 million)</i></li><li>- Exterior upgrades to improve site safety, outdoor areas, and signage <i>(approximately \$8 million)</i></li></ul>	\$144,000,000
<b>Replace Aging and Outdated School Buses</b> <ul style="list-style-type: none"><li>- Improve energy efficiency and support the transition to electrified school buses</li></ul>	\$75,000,000
<b>Ensure oversight and accountability of bond expenditures</b> <ul style="list-style-type: none"><li>- Independent audits of bond projects and contracts</li></ul>	\$30,000,000+
<b>TOTAL</b>	<b>\$9,000,000,000^</b>

# School Upgrades and Reconfigurations to Support Wellness, Health, Athletics, Learning and Efficiency

<p><b>School Upgrades and Reconfigurations to Support Wellness, Health, Athletics, Learning and Efficiency*</b></p> <ul style="list-style-type: none"> <li>- Upgrade competitive athletic facilities (approximately \$230 million)</li> <li>- Install photovoltaic panels, electrification and electrical infrastructure (approximately \$175 million)</li> <li>- Campus improvements/enhancements determined by Region/Board District (approximately \$70 million)</li> <li>- Upgrade/reconfigure/construct school-based student wellness facilities (approximately \$40 million)</li> <li>- Upgrades to school libraries to provide updated furnishings and interior alterations (approximately \$10 million)</li> <li>- Improvements to school facilities to support implementation of partner funded projects/programs (approximately \$10 million)</li> <li>- Create sustainable outdoor learning spaces in collaboration with school-based and community-led efforts (approximately \$5 million)</li> </ul>	<p>\$540,000,000</p>
---	----------------------



# Solar Photovoltaic Projects

## Action:

Amend the FSD SEP and approve project definition for 21 Solar Photovoltaic Projects for a total budget \$122,406,423

## The scope includes:

- Installation of up to 15 MW total of solar power
- Individual system sizes range from 250 to 1,400 kilowatts (kW) consisting of carport structures, shade structures, and/or rooftop systems.
- At 13 sites, installation of Level 2 electric vehicle (EV) charging stations and/or conduit for future charging stations to comply with latest 2022 CA Green Code.

## Factors considered for site selection:

- Sites with high energy usage.
- Sites that have been identified for future roof replacement.
- Sites with newly installed roofs to avoid roof warranty issues and minimize roof penetrations that could cause water leakage.
- Coordination with major modernization and other projects.

# Solar Photovoltaic Projects



- Support Board's 2019 Clean Energy Resolution to transition LAUSD to 100% clean renewable energy.
- Installation of 21 solar photovoltaic (PV) projects will benefit the District by significantly offsetting its energy usage costs over the 25-year equipment life of the PV systems.
  - **Energy Production\***: Up to approximately \$178 million in energy production
  - **Anticipated Net Cost Avoidance\***
    - Up to approximately \$45.7 million in net cost avoidance including project costs and anticipated operations & maintenance costs
    - Based on the same assumptions, up to approximately \$168 million in cost avoidance to the General Fund by offsetting electricity consumption

\* Energy production and net cost avoidance calculations provided by the Eco-Sustainability Office

# Scope, Budget & Schedule

#	BD	REGION	School	PV* System Size (MW)	EV* Qty.	Project Budget	Est. 25 Yr. **Net Cost Avoidance	Est. 25 Yr. **General Fund Cost Avoidance	Const. Start	Const. End
1	5	East	Bell HS	0.959	0	\$7,274,924	\$4,453,097	\$11,728,021	Q4-25	Q3-26
2	1	South	Crenshaw Magnet HS	1.207	12	\$9,300,587	\$5,237,009	\$14,537,596	Q4-25	Q3-26
3	1	South	Dorsey HS	0.846	0	\$6,862,632	\$2,582,505	\$9,445,137	Q3-26	Q1-27
4	7	South	Drew MS	0.691	8	\$5,723,453	\$2,086,869	\$7,810,322	Q4-26	Q3-27
5	7	South	Edison MS	0.631	9	\$5,215,047	\$2,205,976	\$7,421,023	Q4-26	Q3-27
6	2	East	Franklin HS	0.763	0	\$6,529,607	\$2,533,690	\$9,063,297	Q4-25	Q3-26
7	7	South	Fremont HS	1.390	17	\$10,296,032	\$5,187,324	\$15,483,356	Q4-26	Q3-27
8	7	East	Los Angeles Acad. MS	0.791	0	\$6,117,889	\$2,707,075	\$8,824,964	Q4-26	Q3-27
9	1	South	Muir MS	0.612	0	\$4,855,984	\$1,944,445	\$6,800,429	Q3-26	Q1-27
10	3	North	Northridge MS	0.674	2	\$4,888,613	\$2,084,279	\$6,972,892	Q3-25	Q2-26
11	6	North	Pacoima MS	0.588	2	\$4,237,615	\$2,080,710	\$6,318,325	Q3-25	Q2-26

\*PV = Photovoltaic; EV = Electric Vehicle Chargers/Infrastructure

\*\*Net Cost Avoidance considers Bond funded project costs and General Fund Cost Avoidance does not.

# Scope, Budget & Schedule (Continued)

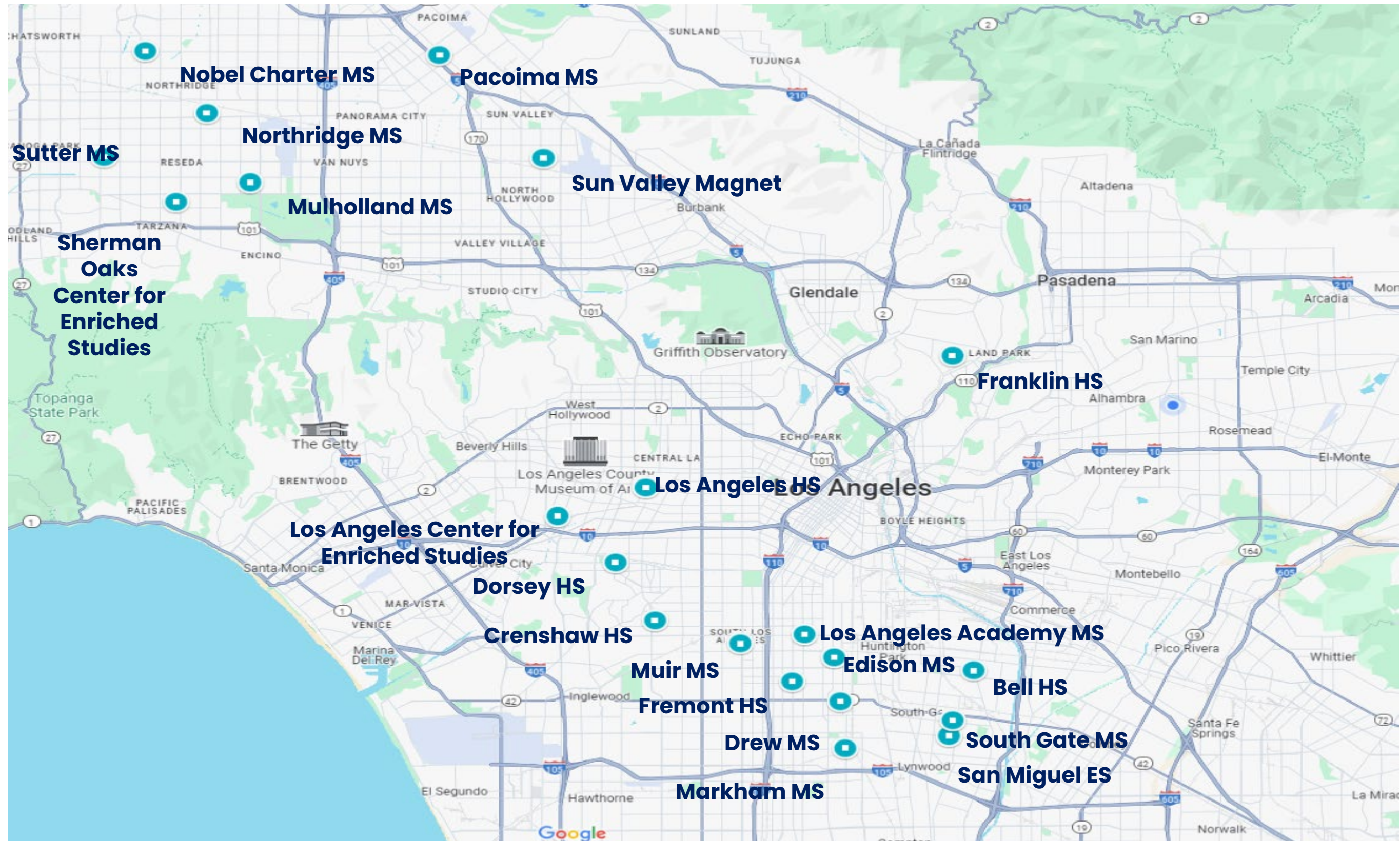
#	BD	REGION	School	PV* System Size (MW)	EV* Qty.	Project Budget	Est. 25 Yr. Net Cost Avoidance	Est. 25 Yr. General Fund Cost Avoidance	Const. Start	Const. End
12	4	North	Sherman Oaks CES	0.527	2	\$4,235,022	\$1,631,772	\$5,866,794	Q4-25	Q3-26
13	6	North	Sun Valley Magnet	0.423	2	\$3,038,334	\$1,722,549	\$4,760,883	Q4-25	Q3-26
14	4	North	Sutter MS	0.510	2	\$4,265,486	\$1,326,346	\$5,591,832	Q4-25	Q3-26
15	1	West	LACES	0.865	4	\$7,416,368	\$2,536,602	\$9,952,970	Q4-25	Q3-26
16	1	West	Los Angeles HS	0.982	0	\$7,707,349	\$2,471,494	\$10,178,843	Q1-26	Q4-26
17	7	South	Markham MS	0.706	5	\$7,093,801	\$1,052,827	\$8,146,628	Q3-26	Q1-27
18	3	North	Mulholland MS	0.556	13	\$5,973,080	\$508,097	\$6,481,177	Q1-26	Q4-26
19	3	North	Nobel Charter MS	0.590	0	\$5,032,329	\$1,039,133	\$6,071,462	Q1-26	Q4-26
20	5	East	San Miguel ES	0.264	0	\$1,681,284	\$264,340	\$1,945,625	Q3-26	Q1-27
21	5	East	South Gate MS	0.441	11	\$4,660,987	\$183	\$4,661,170	Q1-26	Q4-26
<b>TOTALS:</b>				<b>15.016</b>	<b>89</b>	<b>\$122,406,423</b>	<b>\$45,656,323</b>	<b>\$168,062,746</b>		

\*PV = Photovoltaic; EV = Electric Vehicle Chargers/Infrastructure.

\*\*Net Cost Avoidance considers Bond funded project costs and General Fund Cost Avoidance does not.



## Project Locations – 21 Sites





# Project Site Map - Example

*Mulholland Middle School – 556 kW (55% offset of electricity consumption)*



Project Budget: \$5,973,080

Site/Environmental: 0.1%

Planning/Construction: 95.1%

Management: 4.8%

# Project Site Map – Example

*Markham Middle School – 706 kW (90% offset of electricity consumption)*



Project Budget: \$7,093,801

Site/Environmental: 0.1%

Planning/Construction: 95.9%

Management: 4.0%

**Solar Array  
(typ.)**

**5 EV Charging  
Stations**

**centrica**  
Business Solutions



**Questions?**