

**BOARD OF EDUCATION OF THE CITY OF LOS ANGELES
GOVERNING BOARD OF THE LOS ANGELES UNIFIED SCHOOL DISTRICT**

GREENING SCHOOLS & CLIMATE RESILIENCE COMMITTEE
333 South Beaudry Avenue, Board Room Los Angeles, CA 90017
4:00 p.m., Wednesday, February 21, 2024

Committee Members

Dr. Rocío Rivas, Chairperson
Ms. Jackie Goldberg, Board Member

District Members

Krisztina Tokes
Chief Facilities Executive
Christos Chrysiliou
Chief Eco-Sustainability Officer
Jay Golida
Office of the General Counsel

Board Secretariat Contact

Ebony Wilson
Tel: (213) 241-7002
Email: ebony.wilson@lausd.net

External Representatives

Aleigh Lewis, Angelenos For Green Schools
Alma Castrejon, Los Angeles Alliance for a
New Economy
Ava Farriday, Heal the Bay
Bevin Ashenmiller, Occidental College
Claire Latane, Cal Poly Pomona
Hector Huezo, Jobs to Move America (JMA) /
Katie Theel, DSA, Green New Deal for Public Schools
Los Angeles County Electric Truck & Bus Coalition
Lucy Garcia, Climate Reality Project Los Angeles
Mikaela Randolph, Green Schoolyards America
Nico Gardner Serna, Sunrise Movement LA
Tori Kjer, Los Angeles Neighborhood Land Trust

Method for Accessing the Meeting and Providing Public Comment

There are three ways members of the public may access this Committee Meeting: (1) online ([Granicus stream](#) or join the [zoom webinar](#)), (2) by telephone by calling 1-888-475-4499 (Toll Free) and entering the Meeting ID: **815 1855 9131**, or (3) in person.

The Board of Education encourages public comment on the items on this agenda and all other items related to the District. Any individual wishing to address the Board must register to speak using the Speaker Sign Up website: <https://boardmeeting.lausd.net/speakers>, and indicate whether comments will be provided over the phone or in person. Registration will open 24 hours before the meeting. **15** speakers may sign up for general Public Comment, and each speaker will have **two** minutes to present. Each speaker will be allowed a single opportunity to provide comments to the Committee.

Speakers who do not register online to provide comments may use the following alternative methods to provide comments to Board Members:

- Email all Board Members at boardmembers@lausd.net;
- Mail comments via US Mail to 333 S. Beaudry Ave., Los Angeles, CA 90017; and
- Leave a voicemail message at (213) 443-4472, or fax (213) 241-8953. Communications received by 5 p.m. the day before the meeting will be distributed to all Board Members.

Speakers registered to provide public comments over the phone need to follow these instructions:

1. Call 1-888-475-4499 (Toll Free) and enter Meeting ID: **815 1855 9131** at the beginning of the meeting.
2. Press #, and then # again when prompted for the Participant ID.
3. Remain on hold until it is your turn to speak.
4. Call in from the same phone number entered on the Speaker Sign Up website. If you call in from a private or blocked phone number, we will be unable to identify you.
5. When you receive the signal that your phone has been removed from hold and/or unmuted, please press *6 (Star 6) to be brought into the meeting.

The Office of the Inspector General would like to remind you that they investigate the misuse of LAUSD funds and resources as well as retaliation for reporting any misconduct. Anyone can make a report via the OIG hotline on their website (<https://www.lausd.org/oig>), by telephone at 213-241-7778, or by emailing inspector.general@lausd.net. Reports are confidential, and you can remain anonymous if you wish.

Please contact the Board Secretariat at 213-241-7002 if you have any questions.

AGENDA

- I. Welcome** Dr. Rocío Rivas
Chairperson
- II. Presentations**
- 1) [Overview of Eco-Sustainability Office](#) District Staff
- a) Charge of the Office
- b) Updates
- c) Website
- 2) Update on Community School Parks District Staff
- III. Committee Structure and Working Groups** Dr. Rocío Rivas
Chairperson
- a) New Members
- b) Overview of Working Groups and Meeting Schedule
- IV. Public Comment**
- V. Adjournment**

Requests for disability related modifications or accommodations shall be made 24 hours prior to the meeting to the Board Secretariat by calling (213) 241-7002.

Materials related to an item on this agenda distributed to the Board of Education are available for public inspection at the Security Desk on the first floor of the Administrative Headquarters, and at:
<https://www.lausd.org/boe#calendar73805/20240227/event/70251>

TAB 1

ECO- SUSTAINABILITY OFFICE

Greening Schools and Climate Resilience Committee Meeting

Christos Chrysiliou, FAIA, LEED AP
Chief Eco-Sustainability Officer

February 21, 2024



CARTHAY ES



Agenda

- **Eco-Sustainability Office Overview**
 - **Charge of the Office**
 - **Updates**
 - **Website**





Mission and Vision

Mission:

The Los Angeles Unified School District is committed to being the most sustainable and environmentally-friendly large urban school district in the country.

Vision:

The Eco-Sustainability Office is committed to supporting the LAUSD Strategic Plan by developing and implementing programs and policies that raise awareness of environmental stewardship and provide healthy, sustainable learning environments for all LAUSD students.



LAUSD Board Resolutions

Clean Energy Resolution (2019)

- Transitioning LAUSD to 100% Clean, Renewable, Energy Resulting in Healthier Students and More Sustainable, Equitable, Communities

Climate Literacy Resolution (2022)

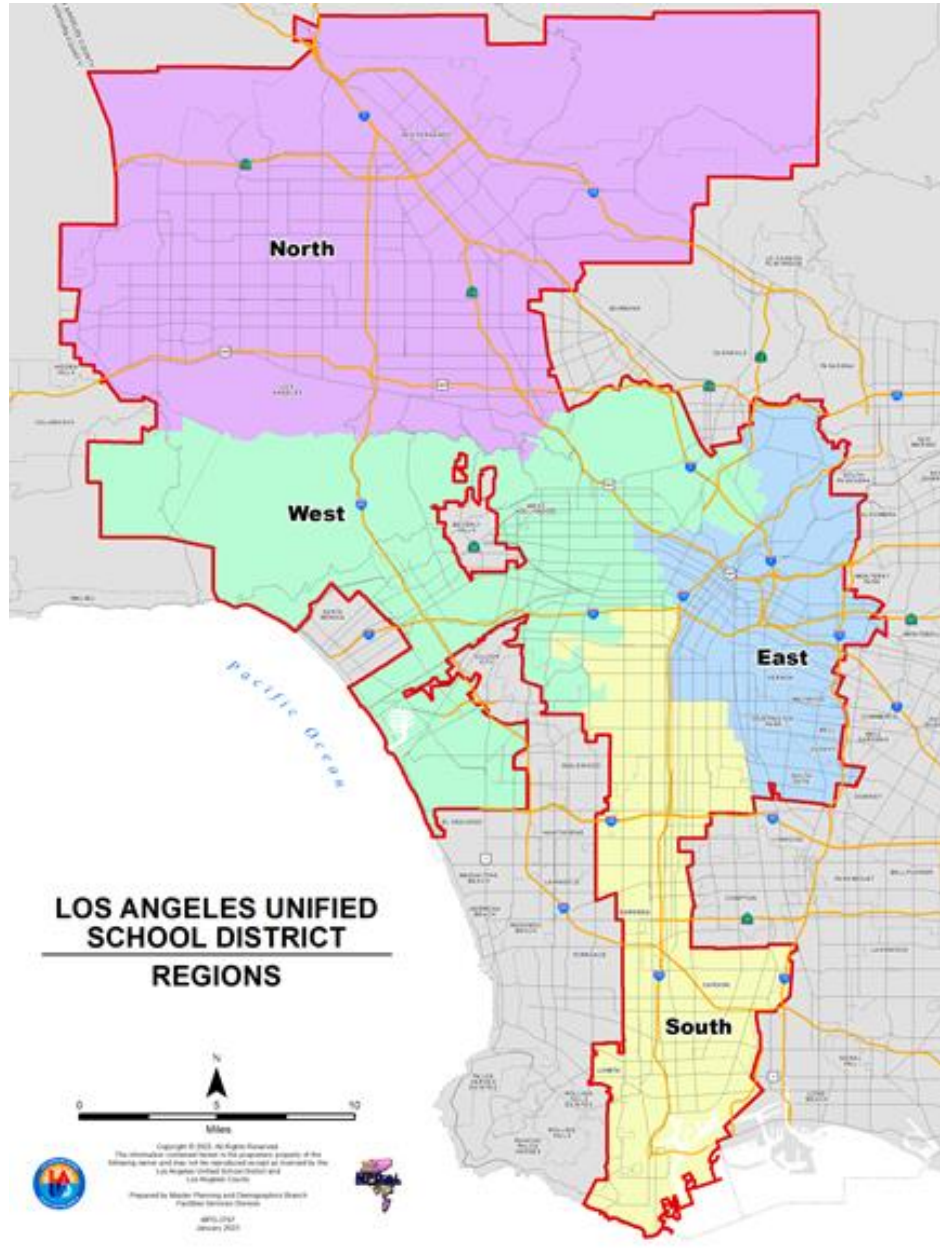
- Enacting a comprehensive Climate Literacy Program for LAUSD to help address the escalating climate crisis. Climate Literacy covers education about environmental justice, green jobs and correcting misinformation.

Green Schools for All Resolution (2022)

- Establishes a minimum standard of 30% green space for all campuses



LAUSD Facts



92,983,439 building square footage

25,392 structures

31,700 classrooms

6,676 acres of land

1,438 schools and centers, all types

710 square miles of site boundaries

563,083 students (total, all sites)

74,741 employees

Nation's second-largest school district



Responding to the Climate Crisis

The Crisis:

- Heat Island Impacts
- Drought
- Flooding
- Poor Air Quality
- Loss of Biodiversity
- Socio-Economic Impacts



Our Response:

- Environmental Justice
- Climate Literacy
- Greening and Outdoor Shade
- Stormwater Management
- Decarbonization
- Energy and Water Conservation
- Electrification
- Improved Air Conditioning, Ventilation, and Air Quality Sensors
- Native Habitats

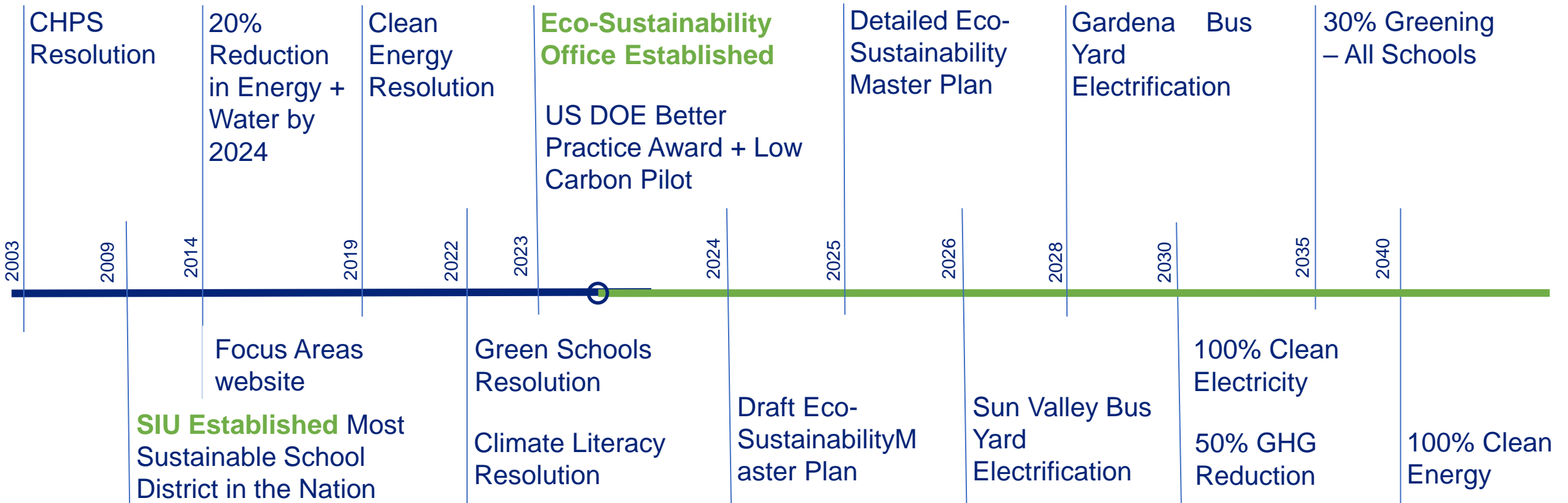


LAUSD Sustainability Focus Areas



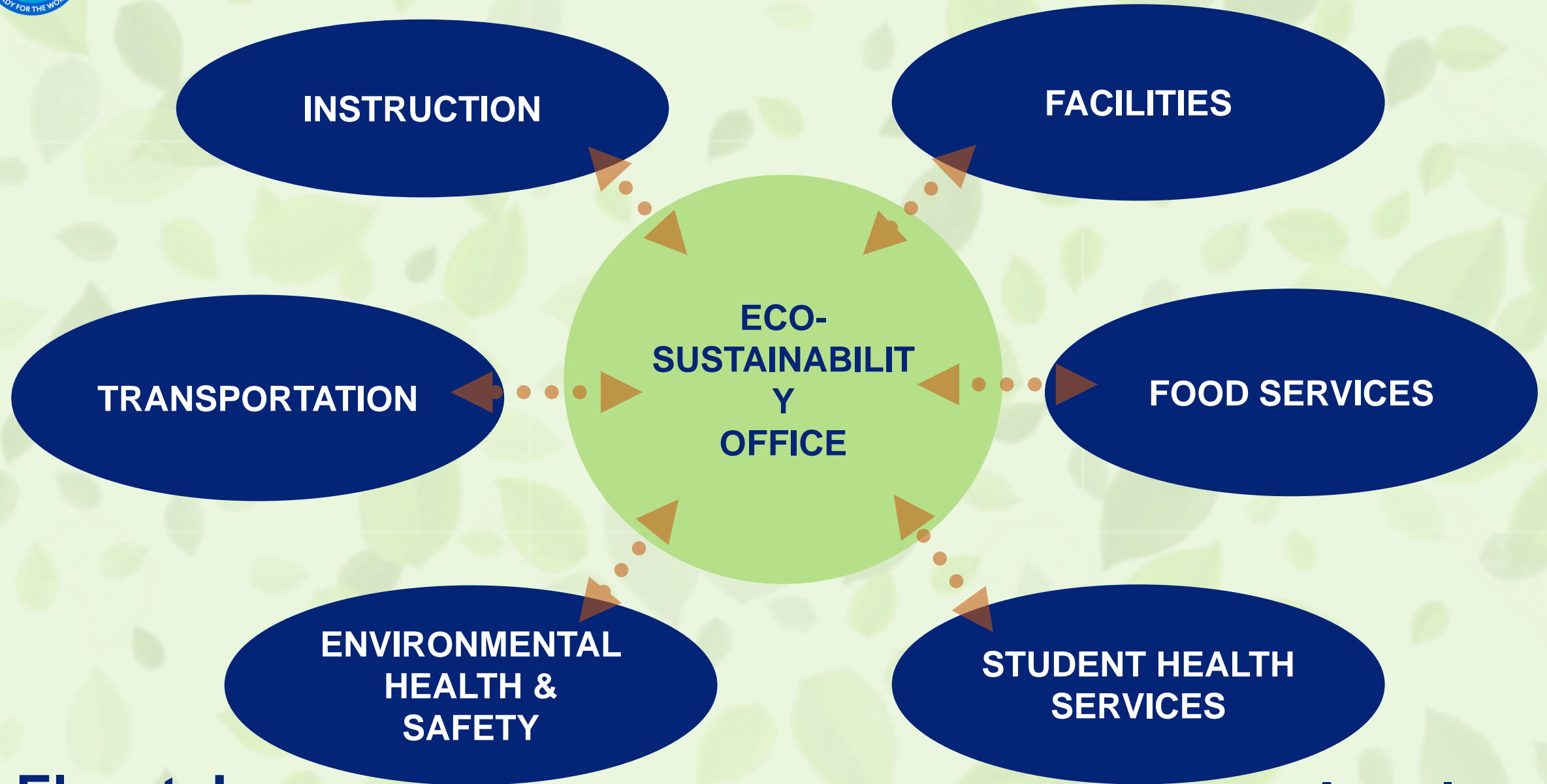


Timeline of Achievements & Goals





An Integrated Response Across LAUSD Divisions



Elevate!

Accelerate!



Responding to the Climate Crisis

INSTRUCTION

- 310 schools with Climate Champions
- Heroes for Zero Annual Student Competition
- Empowered STEM Curriculum
- Magenta House Energy-Savings Project-based Learning
- Climate Change Professional Development & Stipend



TRANSPORTATION

- Playbook to electrify 1,300 school buses at 6 bus yards
- 71 electric buses to be in service by 2024
- 180 additional electric buses to be purchased by 2024
- Planning for electrification of white fleet
- Planning for EV Charging at school sites



FOOD SERVICES

- All Electric Kitchen Pilot
- New central services study
- Planning to procure electric combi-ovens
- New menu in development -- fresh food and scratch cooking



ENVIRONMENTAL HEALTH & SAFETY

- RFP for Rubbish & Recycling Services
- Organic waste collection to comply with SB 1383
- Food Waste Program



FACILITIES

- Energy and Water Efficiency
- Energy Monitoring and Dashboards
- Solar Program
- Campus Greening
- Stormwater Management





Clean Energy Board Resolution

2040



100% Clean Energy

2030



100% Renewable Energy

2024



20% Energy & Water
Consumption Reduction

2014

Baseline

Clean Energy Resolution (2019)

- Transitioning LAUSD to 100% Clean, Renewable, Energy Resulting in Healthier Students and More Sustainable, Equitable, Communities
- 100% clean, renewable energy in its electricity sector by **2030**
- 100% clean energy in all energy sectors, including heating, ventilation, air conditioning (HVAC), cooking, and transportation by **2040**

Utility	FY22-23 Expenditure	Current Consumption	2030 Target	2040 Target
Electricity	\$137.1 M	616,324,041 kWh	0 (from fossil fuels)	0
Natural Gas	\$10.5 M	7,069,045 Therms	5,655,236 Therms	0
Total	\$147.6 M	*	*	*



Energy Funding Sources

Grants and Tax Credits

- **EPA** (Environmental Protection Agency) application submitted and waitlisted
- **IRA** (Inflation Reduction Act)
- **ITC** (Investment Tax Credit)
- **CEC** (California Energy Commission) CalSHAPE program, \$26.46 Million

Agreements

- **LADWP MOU – Conserving for Our Kids – Energy and Water Efficiency in School Facilities**, \$87.5 Million
- **Electric Vehicle Charging MOU with LADWP**, \$4.8 Million
- **GAP** (Green Access Program) LADWP

Infrastructure Rebates

- **EV Ready Program** by LADWP
- **Energize Project** by CEC (Energy Infrastructure Incentives for Zero Emission)



CALIFORNIA
ENERGY
COMMISSION



Moving Forward

Continuing Energy Efficiency

- **Lighting Retrofit Projects**
- **High Performance Schools (CHPS)**
- **Education & Awareness:**
 - Meeting with Climate Students
 - HEROES for Zero Contest
 - GPro Certification (In Planning)
 - EmPowered (In Planning)



2030 Goal: 100% Renewable Energy

- **Solar Program:**
 - 7 Pilots (In Proposal Stage)
 - 26 Sites (14 In Contract Execution)
 - LADWP GAP for 150-200 sites



2040 Goal: Clean Energy on All Sectors

- **Updating Specifications to Electrify Gas Sources**
- **Pilot for Electric Kitchen**
- **HVAC Heat Pumps**
- **Water Heaters – All-Electric Heat Pumps**





School Bus Electrification

ELECTRIC SCHOOL BUSES:

38 EXISTING EV BUSES
71 EV BUSES BY Q4 2024
627 EV BUSES BY 2028
1300 EV BUSES BY 2038

VAN NUYS BUS GARAGE

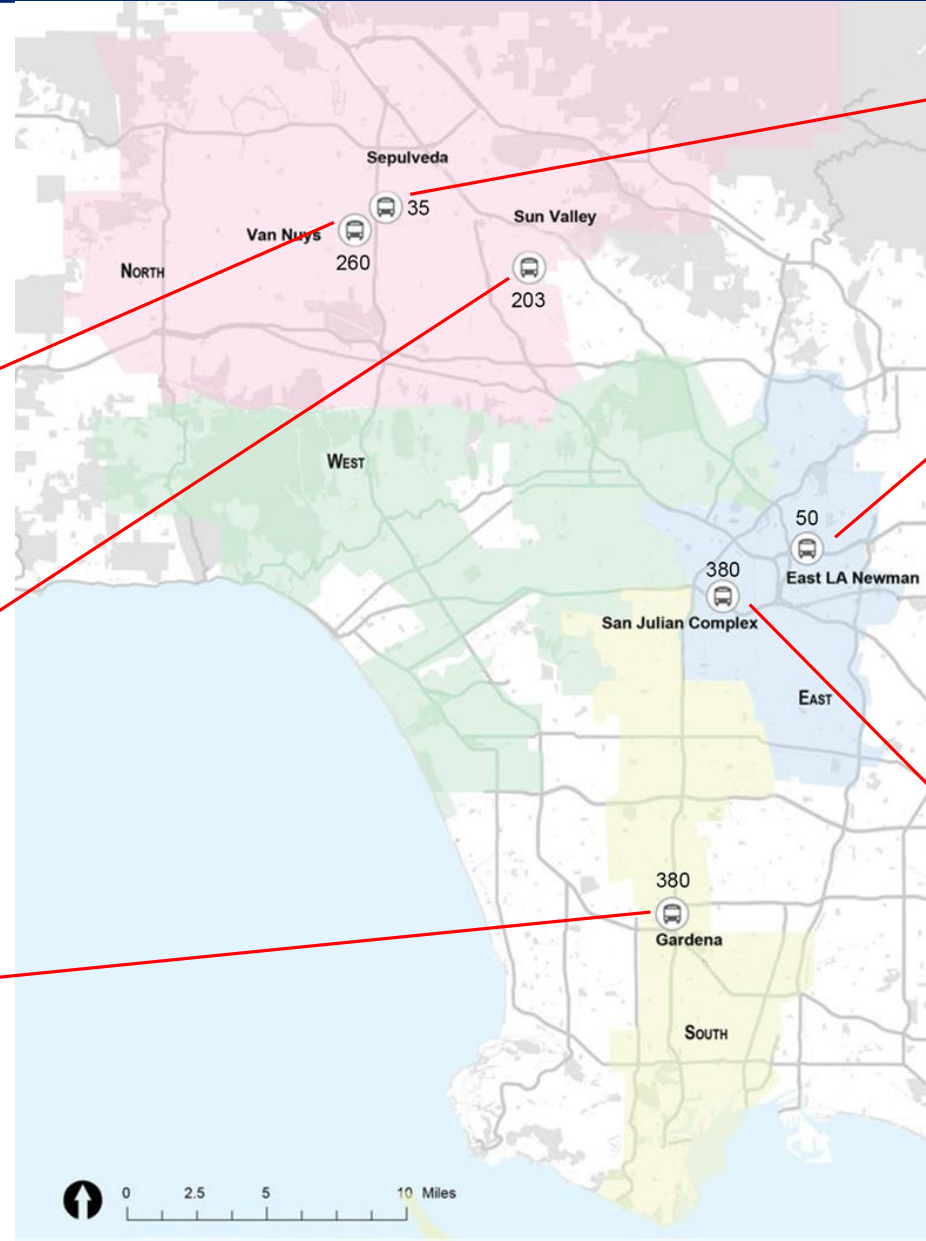
260 BUSES
(LEASED SITE)

SUN VALLEY BUS GARAGE

6 EV BUSES – 6 EV FAST CHARGERS
203 CNG BUSES
PLANNED FULL ELECTRIFICATION:
DECEMBER 2026

GARDENA BUS GARAGE

18 EV BUSES – 18 EV FAST CHARGERS
380 BUSES
PLANNED FULL ELECTRIFICATION:
DECEMBER 2028



SEPULVEDA BUS GARAGE

35 BUSES
(LIMITED SIZE LOT)

NEWMAN NUTRITION CENTER

10 EV BUSES – 10 LEVEL 2 CHARGERS
50 BUSES
PLANNED FULL ELECTRIFICATION:
DECEMBER 2028

SAN JULIAN BUS GARAGE COMPLEX

4 EV BUSES – 2 LEVEL 2 CHARGERS
35 EV BUSES – 36 CHARGERS Q4 2024
380 BUSES
PLANNED FULL ELECTRIFICATION:
DECEMBER 2038



EV Charging Funding Sources

BUS GRANTS

- HVIP (Hybrid and Zero Emission Truck and Bus Voucher Incentive Project)
 - 44% – HVIP (cap at 30 buses per year) + 56% – general fund
- EPA Round 2 – **Awarded \$19.75 Million**
- The Volkswagen (VW) Environmental Mitigation Trust California – **Application submitted**
- Carl Moyer Program – **Application in progress**

INFRASTRUCTURE REBATES

LADWP MOU

- \$4.8 Million proposed MOU pending LADWP final signature

LADWP COMMERCIAL EV CHARGING STATION REBATES

- \$60,000/charging station (up to \$0.5 Million/site)

ENERGIZE PROJECT

- Energy Infrastructure Incentives for Zero-Emission by California Energy Commission





Climate Literacy Resolution



Climate Literacy Resolution (2022)

- To enact a comprehensive Climate Literacy Program for LAUSD to help address the escalating climate crisis. Climate Literacy covers education about environmental justice, green jobs and correcting misinformation.
- Quarterly meetings of the Climate Literacy Task Force, including internal stakeholders from Facilities, Transportation, Food Services, and Office of Environmental Health & Safety and the General Public



Education and Awareness Funding



Programs: \$450K

Supported By



- Alliance to Save Energy Empowered Schools **\$200k+**
- HEROES for Zero Contest **\$175k**
- Magenta House Program **\$60k**
- Green Professionals (GPRO) Training **\$18k**





Green Schools for All Resolution



Green Schools for All Resolution (2022)

- Establishes a minimum standard of 30% green space for all campuses by 2035
- Prioritize efforts in Early Education Centers, Primary Centers, and Elementary Schools
- Prioritize schools with the lowest green spaces/access to green spaces and in communities most affected by extreme heat and climate change

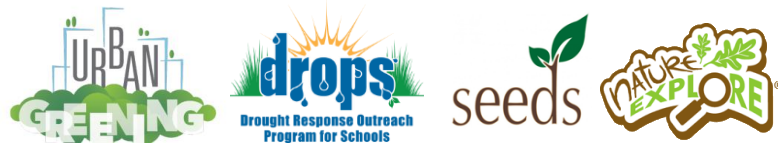


Campus Ecology Funding



Programs: **\$500M+**

- Sustainable Environment Enhancement Developments for Schools (SEEDS/SEEDS+) **\$10M+**
- Early Education Center Outdoor Classrooms **\$128M**
- Paving/Stormwater Management Related Programs **\$175M+**
 - Drought Response Outreach for Schools (DROPS)
 - Critical Repair Program: Low Impact Development (LID), Paving with 30% Greening Component, Playground Greening, etc.
 - Municipal Partnerships (e.g., LADWP, SWRCB)
- Playground and Campus Exterior Upgrades **\$300M** (includes paving and infrastructure upgrades)
- Board Member Priority Projects **\$1.5M+**
- Expanded Learning Opportunities Program (ELOP) **\$44.2M**
- Green Schoolyard Upgrade Projects **\$100M**
- Community Initiated and Grant-Funded Projects **\$9.5M+**





Greening Programs



Norwood ES Beautification - Breathe SoCal

SEEDS

Completed: 70 Completed by 2026: +20

Early Education Center Outdoor Classrooms

Completed: 13 Completed by 2026: +19

Playground and Campus Exterior Upgrades

Completed by 2026: 8

Board Member Priority Projects

Completed by 2026: 20

Enhanced Learning Opportunities Program

Completed by 2025: 34

Green Schoolyard Upgrade Projects

In planning: 15

Community Initiated & Grant-Funded (CAL Fire & 3rd Party)

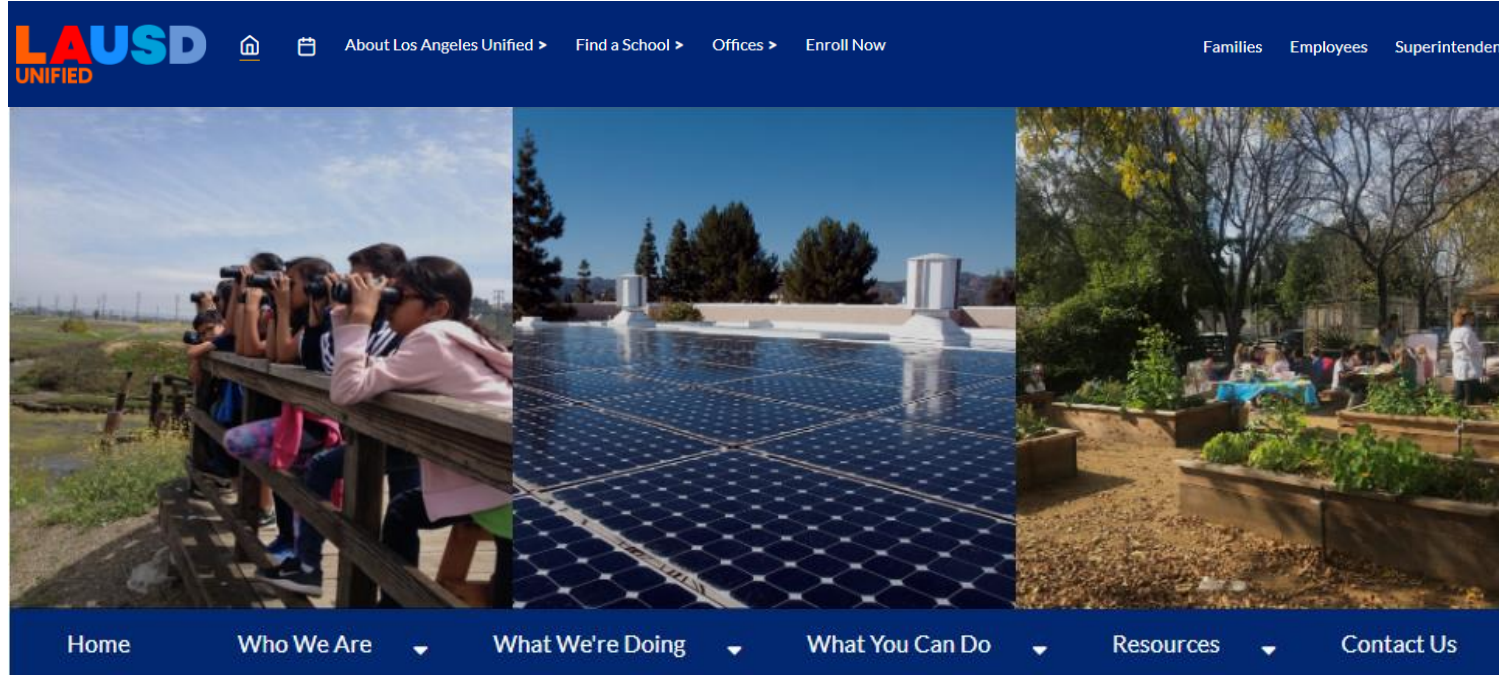
Completed by 2026: 54

Over 100 Greening Projects planned to be completed by 2026



Eco Sustainability Website

Introducing the Eco-Sustainability Website!



lausd.org/eso

Visit to learn about:

- SEEDS Program
- Heroes for Zero
- Sustainability Highlights
- Awards and Recognition
- Greening Resources for Campuses
- District Sustainability Resolutions and Goals
- And more!

Eco-Sustainability Office



Energy Conservation



Water Stewardship



Education & Awareness



Eco Sustainability Website Overview

Sustainability Highlights

Keep up with announcements from the ESO by visiting our blog!

Eco Sustainability Office Highlights

LAUSD Honored with LADWP's Recycled Water Customer of the Year Award

Posted by Eco Sustainability Office on 11/27/2023



Chief Eco-Sustainability Officer, Christos Chrysioliou, and Principal Leonel A. Angulo accepted the Recycled Water Customer of the Year award for Sonia Sotomayor Arts and Sciences Magnet on 11/14/2023.

Recent

By Month

November 2023
September 2023
August 2023
May 2023
April 2023
March 2023
February 2023
January 2023
April 2021
April 2019
February 2017
June 2016
May 2016
April 2016
February 2016
October 2015

Education Programs

Find out more about the educational programs run by the ESO and how to apply!



HEROES for ZERO Contest

Sustainability Initiatives Unit's HEROES for ZERO Contest registration is currently active! The contest challenges K-12 students to help make their campuses Zero Net Energy-ready. Contestants will earn badges in all six HEROES categories, including Health and wellness, Education, Recognizing partnerships, Optimizing performance, Energy efficiency, and Sharing best practices.

Click [here](#) to learn more and read about the 2022-23 contest winners.



GPRO

The Green Professionals (GPRO) Fundamentals Training 2023-24 program (Program) is a professional development opportunity that will be offered to LAUSD's teachers. Participants in the Program will learn the basics of sustainability and will be provided with an overview of the essential strategies and work practices that make buildings and campuses more efficient. Click [HERE](#) if you are interested in the training.

Drought Response Outreach Program for Schools (DROPS)

LAUSD is partnering with Council for Watershed Health, TreePeople, and Los Angeles Audubon to provide the required education/awareness component of the DROPS storm water management grant. Find out more about DROPS and our other storm water management efforts [here](#).

Magenta House

LAUSD is partnering with Pando Populus to offer the Magenta House Accelerator and Expo program in the 2023-2024 school year. The focus of Magenta House is a science fair-like exhibition for middle school students to present projects that involve both water and power conservation. The Magenta House program includes an Accelerator element that, through brainstorming sessions, providing access to educational and financial resources, and mentoring, supports students in developing their projects. Visit [Magenta House](#) for more information.

LAUSD EmPowered

LAUSD is partnering with Alliance to Save Energy (ASE) to implement the EmPowered program. LAUSD students enrolled in the program will be ambassadors for energy conservation on their campus and learn how to protect the environment while saving energy in their school and at home. The program will utilize an easy to navigate online portal to provide STEM-based curriculum; training, guidance and resources for teachers; hands-on, and student-led activities. The program also provides participating schools with a toolkit for conducting energy and water audits and an evaluation of each participating school's energy use.



Greening Index

Learn about District-wide sustainability studies like the Greening Index

Greening Index

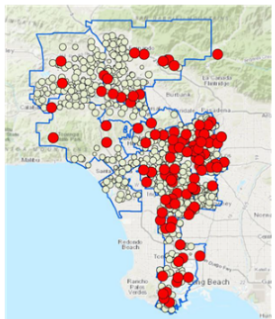
[SEEDS Program](#) | [Garden Resources](#) | [Greening Index](#) | [Greening Partners](#)

The Greening Index is a result of Superintendent Carvalho's [100-Day Plan Report](#) - Los Angeles Unified is working to accelerate campus greening for students who lack access to the benefits of green spaces.

To ensure this is accomplished equitably, we developed a Greening Index that assigns a "green score" to help identify which schools are most in need of greening resources.

The Greening Index is a combination of two measures of need: school site-specific need and community-based need. A school's green score is based on the percentage of green space on a campus compared with its total area; and a score derived from the Los Angeles County's Parks Needs Assessment, a countywide study that considers a community's population density, its proximity to a public park, and the condition of the park.

Click the links below to download the presentation on how the Greening Index was developed, or find your school's ranking on the Greening Index.



Greening Index Top 100 Ranked Campuses Geographically

lausd.org/eso



Upcoming Presentations/Collaborations



HED



ADSA
DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

CASH 45TH ANNUAL CONFERENCE ON SCHOOL FACILITIES

BUILDING EXCELLENCE:

THE BLUEPRINT FOR HIGH PERFORMANCE ENVIRONMENTS AND THE FINANCIAL ADVANTAGE

SACRAMENTO SAFE CREDIT UNION CONVENTION CENTER
WEDNESDAY, FEBRUARY 28, FROM 3:45PM-5PM

This session defines high-performance environments and demonstrates the economic case for investing in high-performance schools, including: improving health, wellness and safety, increased academic performance, attendance, teacher retention, reduced long-term operating costs, preparing for climate change, and providing adaptable spaces for different teaching and learning styles. It will also provide resources and tools to assist districts in executing high-performance projects.



MARY RUPPENTHAL
HED
Architect | Education
Sector Leader



CRAIG SCHILLER
Collaborative for High
Performance Schools
Executive Director



CHRISTOS CHRYSILIOU
Los Angeles USD
Chief Eco-Sustainability
Officer



IDA CLAIR
Division of the State
Architect
State Architect



Playing in the Sandbox: Inviting External Collaborators to Support Climate Goals in the Public Sector

Speakers: Christos Chrysiliou, Los Angeles Unified School District, CA; Kevin Smith, Fairfax County, VA

Collaborating with the right external partners can help local governments meet climate and energy justice goals and targets. This session will feature public sector partners who have created successful external partnerships with academia, the private sector, and community-based organizations to help drive progress toward meeting climate goals.



Department of Energy
Washington, DC 20585

November 27, 2023

67th Annual Fall Conference, 2023



Dear Mr. Chrysiliou,

By committing to ambitious, portfolio-wide GHG emissions reduction goals, Better Climate Challenge partners like Los Angeles Unified School District, CA set an important example for the marketplace to follow. The collective impact of Better Climate Challenge partners benefits nearly every sector of the U.S. economy and is felt by our colleagues, friends, and neighbors in the places they learn, work, and gather together.

In the past year, program partners shared GHG emissions reduction results across more than 850 million square feet of reported building space in addition to more than 2,100 industrial facilities. On average, program partners are achieving a 21% GHG emissions savings from their base year.

Please accept our thanks for being an active partner in the program and sharing your results with the Better Climate Challenge this year. Your efforts make our program possible.

In addition, we are grateful for your participation in one or more of the Better Climate Challenge working groups. Through these peer exchanges, valuable insights and strategies are discussed to address the real-world challenges faced by organizations like yours. You can learn more about the working groups [here](#), and please let your program contacts know if there are other topics you think should be covered in the future.

We are excited to continue working with you through the Better Climate Challenge and are grateful for your continued partnership. Let us know if there is anything we can do to make your partnership more valuable. Finally, we invite you to read about the contributions of organizations like yours in the [2023 Better Buildings Initiative Progress Report](#).

Sincerely,

Maria Vargas, Director
Better Buildings Initiative

Urban School Districts Responding to the Climate Crisis

How do we get
there?

**By Embracing
Change!**

One Planet. One Ecosystem. Together, we can be 'eco-stewards,' as we continue to be inspired by our youth's eagerness for a brighter, more sustainable future.





Thank You!



Christos Chrysiliou, FAIA, LEED AP
Chief Eco-Sustainability Officer

