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Note: To view LAWA by the Numbers, please visit www.lawa.org/lawa-sustainability



MESSAGE FROM CHIEF EXECUTIVE OFFICER



Dear Readers,

I am pleased to present you with Los Angeles World Airports' (LAWA) 2023 Sustainability Report for Los Angeles International

Airport (LAX) and Van Nuys Airport (VNY). The report was developed by our Environmental Programs Division and provides a summary of LAWA's ongoing commitment to sustainability.

In 2023, even as we neared pre-pandemic numbers of passengers and operations, LAWA showed positive results in utility and material resource management by decreasing energy and potable water use per passenger, as well as increasing waste diversion.

A major focus of this report is on LAWA's efforts to provide and enhance sustainable transportation. Also included is a report on progress toward meeting LAWA's Sustainability Action Plan (SAP) targets, along with employee spotlights, which showcase LAWA workers for their contributions to sustainability.

Key accomplishments and milestones for 2023 include:

- Decreased energy use 26% per passenger at LAX relative to 2011
- Advanced solar generation at VNY, with nearly 13,000 operational panels and an additional 30,000 in construction/planned
- Removed 16,900 pounds of invasive and non-native vegetation in the LAX Dunes
- Irrigated 56% of landscaping at LAX with reclaimed water
- Achieved LEED (Leadership in Energy and Environmental Design) Gold Certification for the Consolidated Rent-A-Car Facility, Airport Police Facility, and Terminal 4.5 Core

LAWA's success on the sustainability front is a testament to the dedication of our employees, partners and tenants, along with strong support from local elected officials, agencies, organizations, and business partners. Together, we can and will continue to achieve our sustainability goals and move our airports and the aviation industry toward a greener future.

John Ackerman

LAWA EXECUTIVE MANAGEMENT AND GOVERNANCE

EXECUTIVE BOARD STRUCTURE AND OVERSIGHT

LAWA is a self-supporting department of the City of Los Angeles, which owns and operates two airports within its system: LAX and VNY. The Board of Airport Commissioners (BOAC) governs LAWA and includes seven members. Board members are business and civic leaders appointed by the Mayor of Los Angeles and approved by City Council to serve a five-year term. Current BOAC members include:



Karim Webb (President)











Roxborough

Matthew Johnson

(Vice President)

Courtney La Bau



Narro



In December, John Ackerman was unanimously confirmed as the Chief Executive Officer (CEO) of LAWA by the Los Angeles City Council. Ackerman has significant leadership experience in the aviation industry, including at Dallas Fort Worth International Airport and Denver International Airport and his appointment is expected to drive more equitable opportunities in Los Angeles, enhance the guest experience, and promote sustainability.

LAWA CEO. DEPUTY EXECUTIVE **DIRECTORS. AND DIRECTORS**

- + John Ackerman, Chief Executive Officer
- + Becca Doten. Chief of Staff
- + Michael Christensen. Interim Chief Development Officer
- + Tatiana Starostina, Chief Financial Officer
- + Marla Bleavins, Chief Airport Admininstrative Officer
- + lan Law, Chief Digital Transformation Officer
- + Doug Webster, Interim Chief Operations and Maintenance Officer
- + Robert Lowe. Chief People and Culture Officer
- + Jacob Adams, Deputy Executive Director, LAMP
- + Richard Connolly, Deputy Executive Director, Facilities Management
- + Martin Elam, Deputy Executive Director, Public Safety and Security

- + Dave Jones, Deputy Executive Director, Commercial Development
- + Emery Molnar, Deputy Executive Director. Airport Development Program
- + Aura Moore, Deputy Executive Director, Information Management and Technology
- + Crystal Lee, Deputy Executive Director. The Development Group: Shared Services
- + David Reich. Deputy Executive Director, Mobility and Sustainability
- + Harold Samms, Deputy Executive Director, LAMP Performance
- + Hans Thilenius, Deputy Executive Director, Terminal Development and Improvement Program
- + Paul Herrera, VNY Airport Manaaer
- + Cecil Rhambo, Chief of Airport Police

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EXTERNAL LAWA PARTNERS

Los Angeles Department of Water and Power: Evelina Tverdohleb, Hugo Sanchez

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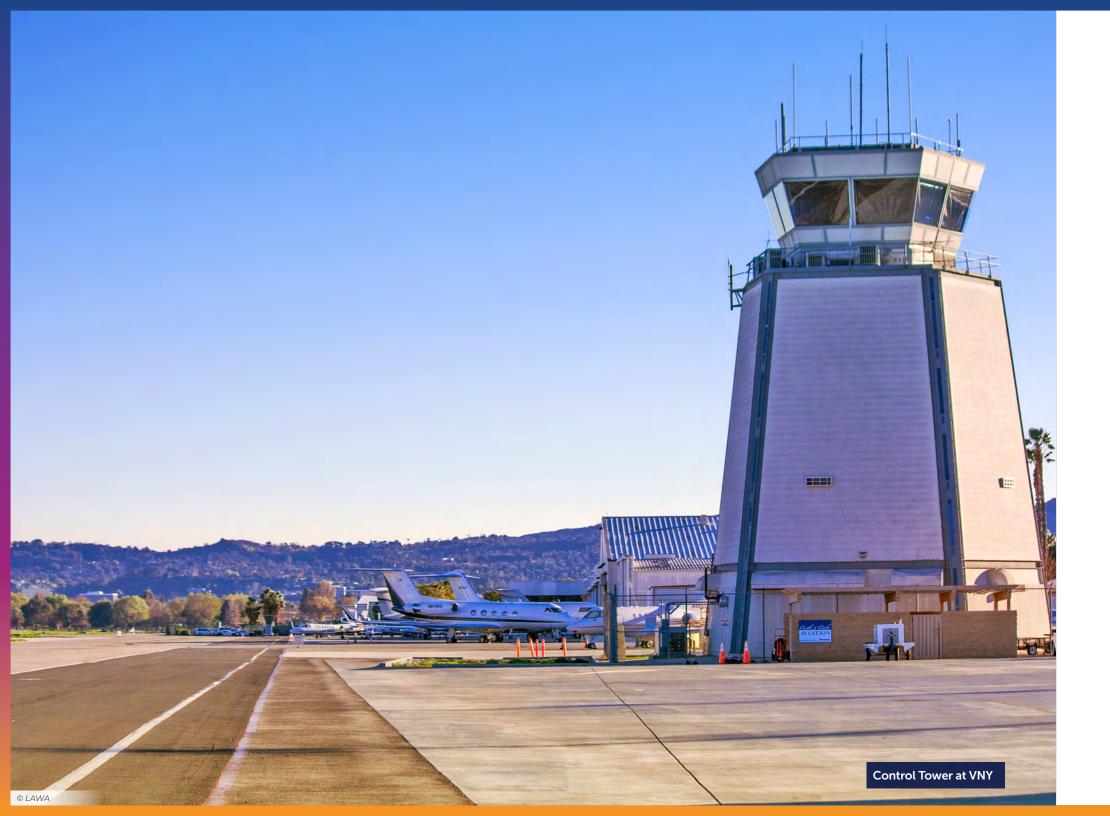
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Also thank you to those we might have missed!



ACRONYMS

AAAE	American Association of Airport Executives
ACA	Airport Carbon Accreditation
ACDBE	Airport Concessions Disadvantaged
ACEC	Business Enterprises American Council of Engineering Companies
ACI	Airport Council International
ACI-NA	Airports Council International- North America
ACT	Airport Consortium on Transformation
AFV	Alternative Fuel Vehicle
AMAC	Airport Minority Advisory Council
APF	Airport Police Facility
APM	Automatic People Mover
ARFF	Air Rescue and Fire Fighting
ASQ	Airport Service Quality
ATMP BIL	Airfield and Terminal Modernization Project Bipartisan Infrastructure Law
BMP	Best Management Practices
BOAC	Board of Airport Commissioners
C&D	Construction and Demolition
CDIP	Coastal Dunes Improvement Plan
CEO	Chief Executive Officer
CNG	Compressed Natural Gas
CO,	Carbon Dioxide
ConRAC	Consolidated Rent-A-Car Facility
СТА	Central Terminal Area
CUP	Central Utility Plant
DVBE	Disabled veteran business enterpris
EBEWE	Existing Buildings Energy & Water

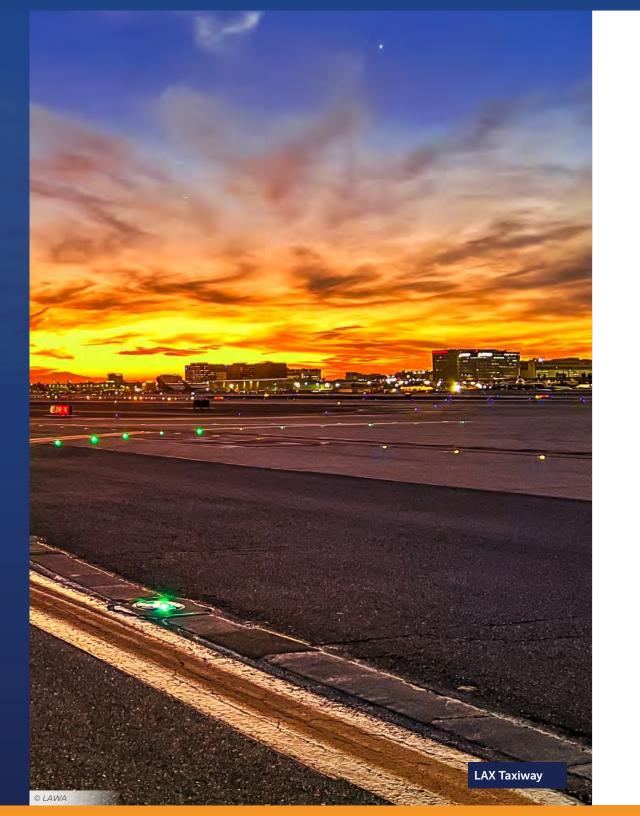
Efficiency

GSE	Electric Ground Service Equipment	LNG	Liquefied Natural Gas
PD	Environmental Product Declaration	LSBE	Local small business enterprise
SBB	El Segundo Blue Butterfly	MBE	Minority Business Enterprise
V	Electric Vehicle	MMBtu	Metric Million British thermal un
AA	Federal Aviation Administration	MSC	Midfield Satellite Concourse
ВІ	Federal Bureau of Investigation	MTCO₂e	Metric tons of Carbon Dioxide
во	Fixed Based Operators	N 43.47	equivalent
QP	Fly Quieter Program	MW MWh	Megawatt hour
Y	Fiscal Year		Megawatt hour
FOA	Government Finance Officers	NAET	North Airfield Exit Taxiways
	Association	NOx	Nitrous Oxides
HG 	Greenhouse Gas	NVOC	North Valley Occupational Center
SE	Ground Service Equipment	PUPs	Pets Unstressing Passengers
С	Hydrocarbons	PV	Photovoltaic
RA	Habitat Restoration Area	QNP	Quieter Nights Program
MA	International Capital Markers Association	RFP	Request for Proposals
Btu	Thousand British thermal units	RSI	Residential Sound Insulation
PI	Key Performance Indicators	RS-X	Receiving Station X
V	Kilovolt	SAF	Sustainable Aviation Fuel
w	Kilowatt	SAP	Sustainable Action Plan
Wh	Kilowatt hour	SBE	Small business enterprise
ADBS	Los Angeles Department of	TBF	The Bay Foundation
	Building and Safety	TBIT	Tom Bradley International Termi
ADWP	Los Angeles Department of	TLC	Team of LAXceptional Courtesy
AMP	Water and Power Landside Access Modernization	TMO	Transportation Management
	Program	TSA	Organization Transportation Security
ARWQCB	Los Angeles Regional Water	134	Administration
ASAN	Quality Control Board Los Angeles Bureau of Sanitation	URW	Unibail-Rodamco-Westfield
ASAN	and Environment	USGBC	U.S. Green Business Council
AWA	Los Angeles World Airports	VIP	Very Important Passengers
ΔX	Los Angeles International Airport	VNY	Van Nuys Airport
BE	Local business enterprise	WBE	Women Business Enterprises
EED	Leadership in Energy and Environmental Design		

EXECUTIVE SUMMARY

The 2023 Sustainability Report highlights LAWA's initiatives and commitments to the environment, community, and economic growth of LAX and VNY.

In 2023, LAWA continued to grow by advancing sustainability initiatives, workforce and community engagement, and implementing sustainable construction projects.



SUSTAINABILITY PERFORMANCE AT LAWA

Sustainability performance, goals, and targets at LAX and VNY are categorized under the following focus areas:



CORPORATE RESPONSIBILITY



ENERGY STEWARDSHIP



WATER CONSERVATION AND QUALITY



AIR EMISSIONS MANAGEMENT



MATERIAL RESOURCES MANAGEMENT



NOISE MANAGEMENT



NATURAL RESOURCE MANAGEMENT

To view LAWA by the Numbers, please visit: www.lawa.org/lawa-sustainability

In 2023, passenger levels at LAX **increased 14%** over 2022, while per passenger water and energy consumption declined.

As passengers and operations increased, water and energy use per passenger decreased, demonstrating increased efficiency across LAX facilities. LAWA continues to prioritize community and employee engagement as LAWA organized, hosted, or sponsored 96 events and tours. Sustainable construction continued across LAWA with the Consolidated Rent-A-Car Facility (ConRAC), Terminal 4.5 Core, and the Airport Police Facility (APF) achieving the U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Certification in 2023. Several LAX projects used Green Bonds to finance sustainable construction. Green Bonds are awarded to projects aimed at increasing sustainability. These bonds support the application of sustainable design features, the identification of goals, and the required reporting on annual progress towards meeting the project's objectives until certification is achieved by LEED or an equivalent sustainability rating system. The Annual Sustainability Report was identified as the suitable place for LAWA to report on the progress of Green Bond funded projects. For the first time, this year's report has highlighted employees across LAWA who are working on projects that support and help attain LAWA's sustainability goals. Look for spotlights throughout this report for employee perspectives on how their work helps support sustainability at LAWA.

Key Successes in 2023 include:

- Recognized with 24 awards in 2023 for LAWA's continued efforts on advancing sustainability
- Increased operable, under construction, and planned solar at VNY
- Developed recycled water infrastructure at LAX
- Phased out single use plastic water bottles across LAWA
- Increased collection of organic food waste at LAX
- Decreased emissions due to an increase in rideshare
- Exceeded 2023 goal for Zero Emission Bus Fleet with 50% of buses electric at LAX
- Launched the LAX and VNY noise portal
- Expanded partnerships for LAX dune invasive species removal
- Increased portfolio of sustainable construction projects

/

SUSTAINABILITY ACTION PLAN UPDATE

The Sustainability Action Plan (SAP), which was approved in 2019, is the foundation on which sustainability actions are applied and tracked throughout LAWA's business practices, operations, community engagement, and environmental conservation. The SAP focuses on seven sustainability categories, each with goals and initiatives to guide LAWA through continuous implementation and performance tracking.

The following lists LAWA's seven sustainability categories, the corresponding SAP goals, and notable 2023 achievements toward those goals.

Note: Goals with a check mark ✓ have been completed in prior years and are ongoing initiatives for LAWA.



CORPORATE **RESPONSIBILITY**

- ✓ Continue to implement inclusivity requirements in LAWA contracts and monitor compliance
- ✓ Develop and expand partnerships to promote a sustainable local workforce for the airport and airport-related projects

2023 ACHIEVEMENTS

- Hosted or participated in 96 community events and tours
- Attended 120 community meetings
- As of December 2023. HireLAX has assisted 375 local residents with starting construction careers



ENERGY MANAGEMENT

✓ Reduce energy use per passenger **15%** by 2025 over 2011 levels

Reduce energy use per passenger **30%** by 2035 over 2011 levels

Reduce energy use per passenger **65%** by 2045 over 2011 levels

Achieve 100% renewable electricity by 2045

2023 ACHIEVEMENTS

- Continued to expand solar projects across LAWA airports, with ongoing construction of an additional 8,606 MWh of solar projects at VNY
- Reduced energy consumption per passenger by 26%, achieving 2025 goal early



WATER MANAGEMENT

Additional 25% reduction in potable water use per passenger by 2025; **30%** by 2035

Increase recycled water use as a percentage of total water use **30%** by 2035

Eliminate potable water consumption for non-potable uses such as landscaping and the cooling towers by 2045

2023 ACHIEVEMENTS

- Reduced water consumption per passenger by 12%, compared to 2022
- Irrigated 56% of LAX landscape with reclaimed water



AIR EMISSIONS MANAGEMENT

Carbon neutrality by 2045

✓ Achieve 20% zero emissions bus fleet by 2023

Achieve 100% zero emissions bus fleet by 2030

Upgrade to higher Airport Carbon Accreditation (ACA) level by 2023

- **✓** Stronger Ground Service Equipment (GSE) targets
- √100% compliance with LAX Alternative Fuel Vehicle (AFV) Policy

Complete gate electrification program for all cargo, hangar, maintenance, and remain-over-night aircraft parking positions

2023 ACHIEVEMENTS

- Increased FlyAway Program Ridership 17% compared to 2022
- Installed 350 electric vehicle (EV) chargers for a total of 1,182 by the end of 2023
- Achieved LAWA's EV Purchasing Policy target for EV sedans with 53% of the sedan fleet powered by electricity in 2023
- Increased Sustainable Aviation Jet Fuel (SAF) usage at LAX by 22% compared to SAF used in 2022
- Implemented an incentive program to accelerate deployment of electric GSE (eGSE)



MATERIAL RESOURCES MANAGEMENT

✓ Achieve non-construction waste diversion of **25%** by 2025

Achieve non-construction waste diversion of **50%** by 2035

Achieve construction waste diversion of 90% by 2025; 95% by 2035

2023 ACHIEVEMENTS

 LAX and VNY phased out the sale and provision of single-use plastic water bottles, effective mid-2023, eliminating nearly 4.7 million bottles in 2023.



NOISE MANAGEMENT

- ✓ Implement the LAX Fly Quieter Program (FQP)
- ✓ Launch web-based noise portals for LAX and VNY
- ✓ Continue with the Sound Insulation Grant Program as funds are identified

2023 ACHIEVEMENTS

- Recognized 9 airlines with the Fly Quieter award
- Awarded 21 operators with the Friendly Flyer Award at VNY, with 3 participants awarded as first-time winners
- Received a 2023 Environmental Achievement Award from the Airport Council International -North America (ACI-NA) Environmental Affairs Committee for the LAX and VNY Noise Portal





LAWA 2023 SUSTAINABILITY REPORT



NATURAL RESOURCES **MANAGEMENT**

- ✓ Continue to strive for the natural addition of flora and fauna with no net loss of biodiversity in the LAX Dunes
- ✓ Implement invasive plant management in the El Segundo Blue Butterfly (ESBB) Habitat Restoration Area (HRA)
- ✓ Continue to improve the Coastal Dunes Improvement Project (CDIP) area in northern section of the LAX Dunes
- ✓ Continue weeding and restoration activities
- ✓ Secure grants that will benefit the LAX Dunes, habitat, flora, and fauna

2023 ACHIEVEMENTS

Removed over 16,900 pounds of invasive and non-native plants





CORPORATE RESPONSIBILITY

Economic viability and social responsibility are at the forefront of corporate responsibility at LAWA. In 2023, operations and passengers neared pre-pandemic levels, often surpassing them on busy travel days. LAWA engaged with the community throughout the year, hosting and attending many community events. LAWA continued to enhance passenger experience and employee wellbeing by offering new and expanded initiatives.





2022 | 556,913

2023

575,097
total aircraft operations

75,050,851



· AIR CARGO VOLUME -----

2021 | 2,974,073

2022 | 2,754,570

2023

2,368,148

metric tons of cargo



··· (PASSENGER & CARGO) ······ 5% JetBlue | 5% Spirit 1% Federal Express 1% Air Canada | 1% Volaris All Others 19% Southwest Delta 16% United American **30%** 11,177,974 International Departures 35% increase from 2022

2023 AIRLINE MIX BY OPERATIONS

··· ORIGIN, DESTINATION, & CONNECTING

70%

26,464,231

Departures
8% increase from 2022

Domestic

80% departures on time

79% arrivals on time
In 2023, LAX was ranked the

#2 gateway for nonstop international travel

(according to U.S. Department of Transportation Bureau of Transportation Statistics)



KEY ECONOMIC DATA FOR LAX IN 2023

Total Revenue	
Generation	\$2,042,287,000
Total Expenses	\$905,005,000
Total Income	\$1,137,282,000
Total Outstanding	
Bonds for LAX	\$12,731,421,000
Debt Payments for LAX	\$485,459,000
Capital Reinvestment	
at LAX	\$2,269,162,000
<u> </u>	







LAX 2023 COMMUNITY EVENTS

LAWA and the Network for Teaching

Entrepreneurship hosted a visit to LAX for 20

in the aviation industry and understand how classroom knowledge can be applied to real-world

Hawthorne Middle School students to learn about

success in the aviation industry. The annual event,

which has been held since 2015, gives students the

opportunity to meet business owners and operators

In 2023. LAX Staff...

AX Presents: Upstream

community meetings

FEBRUARY

career opportunities.

LAX Presents: Upstream

attended

attended

community

events

community

hosted

relations events

community

tours

tours

stakeholder

educational tours

APRII

- LAX Presents: Gong Gaada
- LAX Flyers toured the Flight Path Museum.
- Terminal 1 Spring Art Rotation opened



JUNE

© SKA Studios LLC

LAWA sponsored celebration of the Los Angeles Urban League.

Luminaries of Light and

Space exhibit at LAX

- LAWA hosted Kids Beach Clean Up Day.
- Airport Police Department participated in the law enforcement Torch Run for Special Olympics.

JULY

LAX Presents: Tres Souls

SEPTEMBER

- In September, LAX and the non-profit radio station dublab introduced two new art installations at West Gates in TBIT. The first. *The Orchestring*, is an immersive sound art installation in the pedestrian tunnel, featuring 30 local artists, while the second, Luminaries of Light and Space, is an exhibition of 13 works by pioneers of Southern California's Light and Space movement.
- LAX Presents: Katalyst Collective
- LAWA hosted the Future Travel Experience Global 2023 Conference.
- LAWA and Flight Path Museum celebrated 20 years of volunteers.
- LAWA participated in Congress of Neighborhoods



NOVEMBER

- LAX Presents: Greek Rebetika Trio
- Local first graders visited VNY.
- Participated in the LAX Leadership Luncheon with LAX Coastal Chamber of

JANUARY

• In January 2023, the bronze portrait bust of former Los Angeles Mayor Tom Bradley returned to the

Tom Bradley International Terminal (TBIT) at LAX following nearly three years of professional conservation. The 10-foot-tall bronze and granite sculpture, originally created in 1987, will be located in a prominent spot in the TBIT vertical core.

MARCH

 LAX Presents: Natalie Cressman & Ian Faguini



MAY

■ The Pets Unstressing Passengers (PUPs) program at LAX celebrated its 10th anniversary in partnership with Southwest Airlines with a pup parade and special giveaways for departing passengers. The program, which began with 30 therapy dogs and has grown to 79, has served as a model for over 90 airports worldwide, helping to ease passengers' stress and anxiety often associated with flying. In 2023, PUPs were in the terminals for a total of 2,384 hours.

LAX Presents: Pacific Opera Project

 LAWA participated in the El Segundo Rotary Club Community fundraiser.

AUGUST

- LAX Presents: Al Olender
- LAX welcomed home the **El Segundo Little** League Team who won the 2023 Little League World Series, with a water salute, and LAX employees greeted the team with signs. The LAX pylons were illuminated in their team colors after their arrival.



OCTOBER

- LAWA opened **new retail and dining options** at the West Gates at TBIT which promote diversity with each concession including at least one Airport Concession Disadvantaged Business Enterprise (ACDBE) partner.
- LAX Presents: Chris Murphy
- LAX hosted its Aviation Career Day.
- LAX welcomed Dreams Take Flight.
- LAX Police Department hosted community trick-or treat.

DECEMBER

- VNY hosted the Santa Santa Fly-In Event
- LAX Presents: West Coast Singers
- LAX Winter Art Installation opened



WORKFORCE DEVELOPMENT

In 2023, 10,586 local workers worked on active LAX projects, with 32% of them being construction workers.

LOCAL/SMALL/ MINORITY/ **WOMEN/DISABLED VETERANS ENTERPRISE PROGRAM**

LAWA is committed to providing equal opportunities to local, small, minority and women, and disadvantaged veterans enterprises.

■ In 2023, LAWA had **279 contracts** with Small Business Enterprises (SBEs), Local Business Enterprises (LBEs), Local Small Business Enterprises (LSBEs), and Disabled Veteran Business Enterprises (DVBEs), which is more than a 200% increase from 2022.

LAWA **exceeded** its pledged sbe, lbe, and **DVBE COMMITMENTS IN 2023.**

In 2023, new dining and retail opened in West Gates at Tom Bradley International Terminal (TBIT) with each concession including one ACDBE partner.

RECRUITMENT EVENTS

In December 2023, Los Angeles Mayor Karen Bass visited LAX as part of her ongoing tour of City departments to celebrate her first year in office. During her visit, she met with five HireLAX graduates who shared their personal experiences about the successes, financial independence,

pride, and stable careers the program has afforded them.

- In April 2023, LAWA held a hiring fair where employers handed out more than **300 applications**, and **15 candidates** accepted confirmed iob offers for difficult-to-fill positions.
- In May, LAWA, in partnership with Unibail Rodamco-Westfield (URW) Airports, hosted a job fair at the Flight Path Museum in Los Angeles where LAWA offered over 350 positions for in-person hiring.

HireLAX APPRENTICESHIP READINESS PROGRAM

 HireLAX prepares students for their future careers through an eight-week training course. The program is part of LAWA's inclusivity initiative and aims to create economic opportunities through the airport's modernization.

Since its inception in 2017, HireLAX has graduated

375 students and placed 264 of them in union construction positions.

HireLAX graduates make an average wage of \$41 dollars per hour.

- In 2023. HireLAX received a \$1 million federal grant, presented by Congresswoman Maxine Waters at the graduation ceremony for the 17th cohort, to train local workers to pursue construction trade apprenticeships.
- In October 2023, **Janay Wilson**, a HireLAX Graduate won the North America's Building **Trades Unions' Tradeswomen Heroes** Award. Wilson currently works on LAWA's Roadside, Utilities, and Enabling (RUE) Project.

GUEST EXPERIENCE

■ LAX iCARE is a Guest Service Program that provides frontline, curbside guest assistance at the Central Terminal Area (CTA). It is a partnership with the State of California Department of Rehabilitation, South Bay Workforce Investment Board, and the Mayor's Office Los Angeles College Promise Program.

IN 2023, **70 STAFF MEMBERS** WORKED **18,832 HOURS** AND **SERVED 718,023 TRAVELERS** THROUGH THE LAX ICARE PROGRAM.

■ The Team of LAXceptional Courtesy (TLC) is a guest assistance program where volunteers, including LAWA employees, provide guest assistance inside the terminals at arrival level during peak holiday travel days. In guest interactions, volunteers provide an LAXbranded gift and thank them for traveling with LAX.

IN 2023, 51 TLC VOLUNTEERS COLLECTIVELY **WORKED OVER 6 DAYS** AND **HANDED OUT 780 ITEMS.**



■ The LAXceeders Program is for collegebound students who are interested in aviation careers. The program introduces them to the airport environment, develops their communication skills, and trains them in quest assistance techniques. LAXceeders roam at pre-screening and selected postscreening areas and provide navigational and informational assistance.

IN 2023. 8 LAXceeders SPENT 787 HOURS IN TERMINALS SERVING TRAVELERS.

Very Important Passengers (VIPs) staff have information booths located at the arrival levels in airport terminals. VIPs assist guests by providing wayfinding directions throughout the airport, and giving information about airport amenities, ground transportation needs. local accommodations and attractions to the traveling

IN 2023. **70 VIPS** STAFF MEMBERS SPENT **APPROXIMATELY 9,200 HOURS** IN THE TERMINALS AND SERVED 349,270 TRAVELERS

public.

■ In September, LAWA opened LAX Budget Parking, a new parking facility at LAX, in response to a 16% increase in year-over-year passenger traffic. Additional and affordable parking reduces the number of drop-off and pick-up trips to the airport. The facility offers 2,600 spaces, contactless entry and exit, shuttle bus tracking, real-time changes to reservations, and is the most affordable parking option at LAX, with prices ranging from \$15 to \$20 per day.

"As the LAXceeders program director, my role includes introducing students to opportunities for gaining exposure and experience in an airport environment, specifically leading to careers in aviation management, aerospace, and airport operations. The LAXceeders program is dedicated to equipping students with the skills needed to develop effective communication and problem solving, and create opportunities needed for future careers in aviation. The program also reflects our dedication to the community and stakeholders in creating a diverse workplace"



MONIQUE BELL LAXCEEDERS PROGRAM







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EMPLOYEE WELL-BEING

- LAWA launched **Altitude**, an app for the 40,000 staff at LAX. The platform provides access to essential tools such as problem reporting, discounted food ordering, FAQs, commute options, and service directories. Altitude also highlights businesses that are a part of the **We Fly as One Program**, increasing visibility and accessibility to these businesses for LAX employees.
- Four LAWA office spaces received the California Green Business Certification in 2023, including:
 - » Admin West
- » Skyview Center North
- » Admin East
- » Airport Police Department

These office spaces feature energy-efficient lighting and appliances, water-saving fixtures and landscaping, low-VOC paints and carpets, mixed recycling programs, and use green cleaning products. LAWA obtained certification and demonstrated leadership and innovation in promoting sustainable practices not only for customers and community, but for employees as well.



COMMUNITY

• Safe Parking LA Pilot Program at LAX opened in June, providing a secure overnight parking area for people living in their vehicles. This initiative, the first of its kind at a US airport, is a collaboration with Safe Parking LA and offers restrooms, security, and trash services for participants enrolled in a program assisting them towards more permanent housing solutions.

On October 28th, LAWA hosted its 8th annual Aviation Career Day at the Flight Path Museum at LAX, attracting record-breaking participation with over
 1,100 local high school students from 13 Los Angeles Unified School District schools and other nearby schools. The event featured commercial aircraft, equipment demonstrations, and a career fair with representatives from more than
 30 entities, including American Airlines, Delta Air Lines, United Airlines, and JetBlue Airways; law enforcement agencies; and construction firms involved in projects at



LAX. Students had the opportunity to tour commercial aircraft, engage with industry experts, and learn about a wide range of career options in the aviation industry. Representatives from local community colleges and California State University Los Angeles were also present to discuss further education opportunities.

 More than 80 middle and high school students took part in LAX's first hybrid
 Aviation Career Education (ACE) Academy, which offered a four-day virtual program and an in person fifth day session.



VNY BY THE NUMBERS

:-- AIRCRAFT OPERATIONS -----

2021 | 301,122

2022 | 283,690

2023

329,558

total aircraft operations

WORKFORCE DEVELOPMENT

`-----i

In October, VNY hosted the North
Valley Occupational Center (NVOC)
Aircraft Technician Mechanic Program
in coordination with the Los Angeles
Unified School District's Division of
Adult and Career Education Schools
which provides training in aircraft
maintenance and preparation.

100

KEY ECONOMIC DATA FOR VNY IN 2023

Total Revenue
Generation \$24,730,000

Total Expenses \$20,055,000

Total Income \$3,995,000

IN 2023, VNY TURNED...



FEATURED AWARD

 VNY was honored with the 2023 Corporate
 Community Service Award by the Regional Cal Black Chamber San Fernando, recognizing VNY's significant contributions to the regional economy



Mechanic Program Attendees

16



In 2023. VNY Staff...

attended

community meetings

attended

VNY 2023 COMMUNITY EVENTS

community community relations events

12

tours

COMMUNITY EVENTS INCLUDED:

■ In June, VNY hosted a community event with local youth and families where they painted a decommissioned Learjet 60 to support arts education. The event, led by local artist duo AQMNi and supported by Dreamline Aviation and Signature Flight Support, aimed to raise funds for Arts Bridging the Gap, a non-profit organization dedicated to fostering arts in under-resourced communities across Los Angeles. The painted aircraft will be displayed at a public location in Los Angeles.

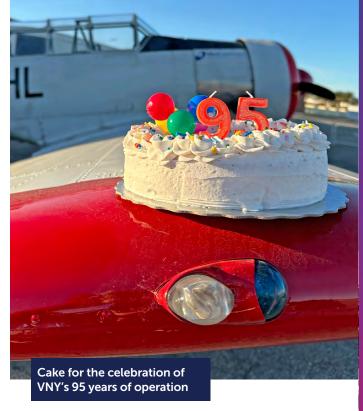




Arts Bridging the Gap event

In September, VNY hosted the County of **Los Angeles Fire Department** to showcase the current fleet of aerial firefighting resources, including Super Scoopers, planes designed to put out wildfires using collected surface water, leased from the government of Quebec, Canada.

VNY tenants worked together to fly **supplies to Maui** after historic wildfires impacted the island and its community.



■ In November, VNY in partnership with the Valley Economic Alliance and 20 aviation companies, hosted an **Aviation Career Day for approximately 700 students** from the Los Angeles Unified School District. The event included interactive sessions with aviation experts, presentations, demonstrations, aircraft exhibits, and guided tours of the airport.



LAWA promotes renewable energy use

VNY. Since 2011, LAX has decreased its

and VNY maintain their participation in

received awards for their energy-saving



ENERGY STEWARDSHIP

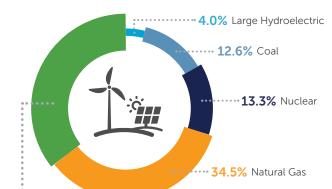
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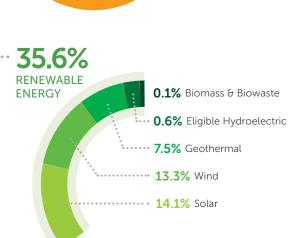
LADWP POWER GRID

LAWA

The Los Angeles Department of Water and Power (LADWP) power grid supplied both renewable and non-renewable energy to LAX and VNY in 2023.

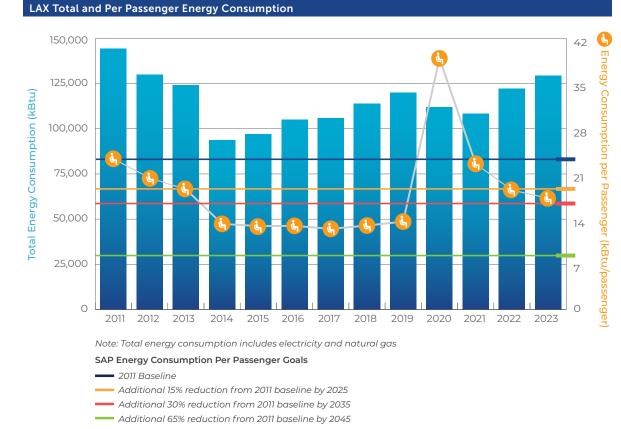
In 2023, LADWP sourced its electricity from the following:





BUILDING BENCHMARKING AND AUDITS

Improving building-level efficiency is a key component to meeting LAWA's climate goals. To understand building level energy and water consumption, LAWA conducts annual benchmarking for its buildings. Importantly, LAWA also performs building audits and retro-commissioning that identify specific energy and water saving opportunities that building managers can implement to enhance efficiency.



LAX

In 2023, energy consumption per passenger:

decreased decreased **19.0% 126.1** from 2011

Reductions since 2011 have: exceeded the SAP goal of a

↓ 15% reduction by 2025; and nearing the SAP goal of

30% reduction by 2035.

Since 2011, LAX has decreased gas consumption by

↓28.3% to **634,271** MMBTU in 2023, contributing to the per passenger energy use reduction.

LADWP RESPONSE PROGRAM

is a voluntary program which offers incentives to businesses for reducing utility bills during peak times. In 2023, LAWA participated in LADWP's Demand Response events by offloading or reducing electricity consumption at LAX by an average of 2,697 kW per event

which is an increase of 15% per event over

LAWA's 2022 participation.



Electricity savings were obtained by increasing chilled water temperatures, running combustion turbine generators, and other voluntary energy savings measures implemented throughout LAX.

2023 Sustainability Leadership Awards for Demand Response LAWA's Central Utility
Plant (CUP) was commended by LADWP.



ConRAC Projected Solar Production

System Size: 4.7 MW

MWh Annually: 8,400 MWh

enough energy to power approximately **940 homes**

2









since 2022.

ASSOCIATE III

since 2011.

Note: Total energy consumption includes electricity and natural gas



airlines and passengers to the airport." GEORGE BESHAY **ELECTRICAL ENGINEER**

competitiveness of LAWA, attracting more

"I was an electrical subject matter expert for the Receiving Station X (RS-X) project, which will provide expanded capacity to

handle incoming power supply and growing

electrical demands at LAX, including new terminals,

gates, or other infrastructure components. The RS-X will

improve reliability by diversifying power sources including

renewable energy integration, providing redundancy, and

utilizing advanced monitoring and control systems to optimize

the distribution of power within the airport infrastructure. This

infrastructure is essential for the smooth functioning of airport

operations, including passenger services, cargo handling, and

airline operations. RS-X can contribute to the economic

VNY

In 2023:

Total energy

consumption

decreased





VNY Total Energy Consumption 8,000

SOLAR PROJECTS



Operational Solar Projects

In 2023, VNY operated seven solar projects consisting of 12,894 panels:

- Aeroplex WoodleyClay Lacy
- Aeroplex WatermanMidfield
- Western Jet
- Signature North -16706 Roscoe
- Castle & Cook

Annual operational solar projects at VNY produced 7,722 MWh of power in 2023.



Solar Projects in Construction

In 2023, VNY was constructing five solar projects consisting of 11,858 panels:

- Pacific Aviation
- Signature North -
- 16700 Roscoe Blvd. Hayvenhurst

Signature Valjean

Signature

Jet Aviation

Once operational, these panels will generate 8,606 MWh of electricity annually.



RFP Solar Projects

In 2023, VNY issued Requests for Proposals (RFPs) for six new solar projects that would consist of up to 17,782 panels:

- Flyaway
- Gausman
- 7800 Woodley
- Airtel
- Air Ops
- Aviation Plaza

These RFP solar projects, once constructed, may add up to 16,014 MWh of electricity produced annually.

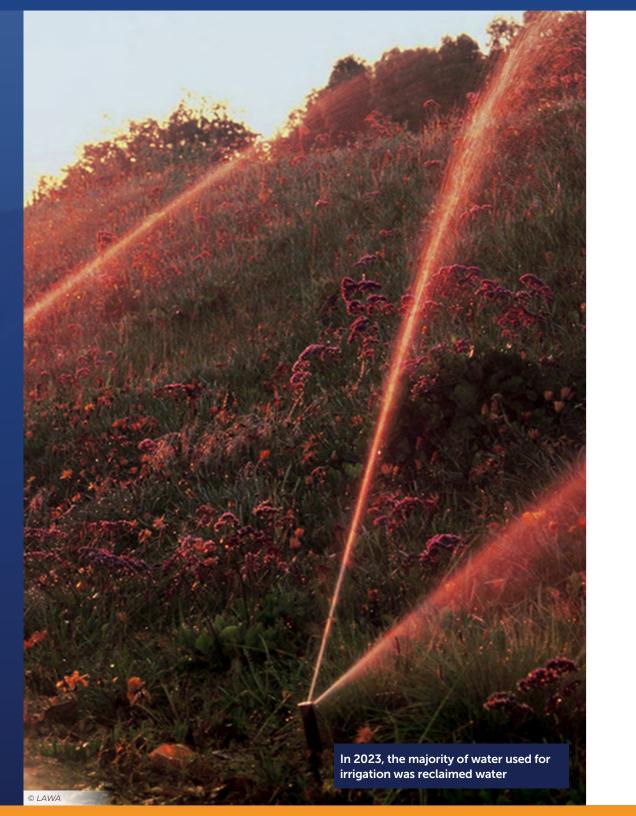
In 2023, Board of Airport Commissioners (BOAC) approved a 20-year lease to develop a 10 MW ground-mount solar facility at the Sod Farm at VNY. The Sod Farm would have a capacity of 23,100 MWh annually. The project will be built on 34 acres to the north of VNY's runway and is anticipated to generate \$21,900,000 in revenue over 20 years once it is put into operation in 2024.





WATER MANAGEMENT

In 2023, potable water consumption per passenger decreased at LAX and total potable water consumption decreased at VNY. LAWA irrigated more landscaped areas with reclaimed water than in 2022 and expanded areas of drought tolerant landscaping.



LAX

WATER CONSUMPTION AT LAX

In 2023, LAX used approximately **453 million total gallons** of water from potable and non-portable sources, which was a less than 1% decrease from 2022 usage. Potable water accounted for 95.2% of total water use.

Total potable water consumption per passenger at LAX decreased 12%

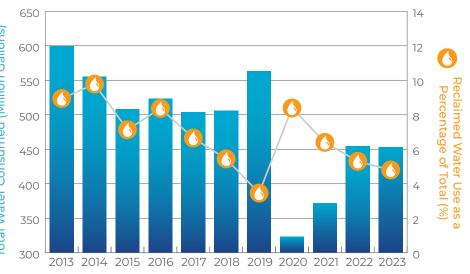
from 6.5 gallons per passenger in 2022 to 5.7 gallons per passenger in 2023.

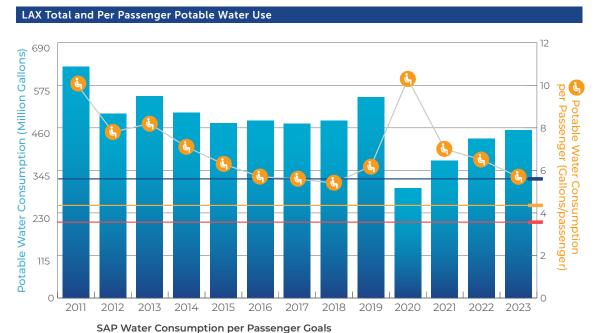
2017 Baseline

Additional 25% reduction from 2017 baseline by 2025

Additional 30% reduction from 2017 baseline by 2035







Reclaimed water accounted for 4.8% of total water use in 2023, which is approximately 21.9 million gallons

LAWA conducts annual benchmarking to understand water consumption by buildings. LAWA also performs building audits and retrocommissioning to identify areas of opportunity within buildings systems to improve water efficiency.



















"My role is to help

manage our Stormwater Quality

program, which includes monitoring

industrial activities here at LAWA, ensure we

are complying with regulatory requirements and

maintaining proper housekeeping. The Stormwater

program aims to protect our water quality by preventing

pollution to our environment as well as keeping us

compliant with our permit. Overall, this aids in LAWA's

goal to be great environmental stewards.

JORDAN WASHINGTON

RECYCLED WATER EXTENSION PROJECT

In 2023, the Recycled Water Extension Project extended

extension, the Central Utility Plant, one of the largest single

purple pipe infrastructure to the CTA of LAX. With this

users of potable water on the LAX campus, will be able

to utilize majority recycled water when the project is

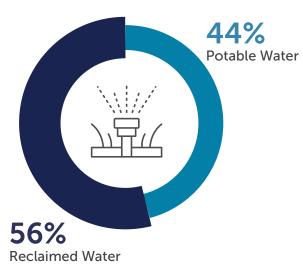
complete. The majority of LAX's campus is now connected

to LADWP's Conveyance pipeline and is ready to receive

recycled water from the Hyperion Advanced Water Purification Facility when it comes online in 2024.

ENVIRONMENTAL SPECIALIST

SUSTAINABLE IRRIGATION IN LANDSCAPING



In 2023, the Telecom project converted 7,792 square feet of turf area into drought tolerant landscape

CONTAMINATED SITE CLEAN UP

In 2023, LAWA received approval by the Los Angeles Regional Water Quality Control Board (LARWQCB) to close and cease cleanup at the former National Car Rental site which was previously contaminated from leaking underground fuel tanks, which posed a risk to water sources. In 2012, LAWA took over responsibility from the previous site owner and has continued extensive site remediation and clean-up efforts to meet environmental and human health standards. These efforts culminated in the LARWQCB determining the site has been remediated and approving site closure.

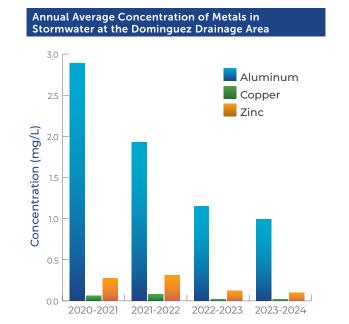






LAX STORMWATER BEST MANAGEMENT PRACTICES

In 2021, LAX installed a combination of stormwater best management practices (BMPs), including wattles and Filtrexx drain inlet filters, at 42 high-priority locations within the Dominguez Drainage Area to reduce metal contaminants from cargo and ground service equipment (GSE) facilities in stormwater runoff. Since the peak in the 2020-2021 rainy season, concentrations of aluminum, copper, and zinc in stormwater decreased **66%, 67%, and 63%** respectively due to implementation of this BMP, helping LAX return to baseline levels.

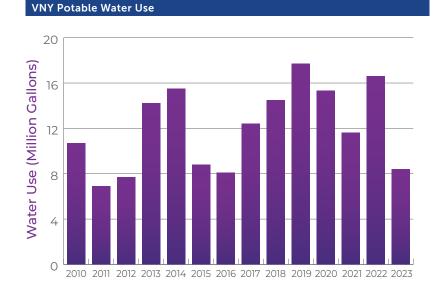


Total potable water consumption decreased

128% from

11.6 million gallons in 2021 to 8.4 million gallons in 2023.

A comparison to VNY's 2022 total potable water consumption was not performed because 2022 had above average water consumption due to construction.





AIR EMISSIONS MANAGEMENT

LAWA remains committed to air emissions management, emphasizing sustainable transportation and reducing greenhouse gas emissions through the implementation of numerous initiatives such as the Rideshare Program and the CommuteLAX initiative. In 2023, LAWA expanded its network of EV charging stations, continued efforts to electrify fleet vehicles, made significant strides in transitioning to alternative fuel use, and maintained its Level 3 Airport Carbon Accreditation, demonstrating significant progress towards its emissions reduction goals.



LAWA

RIDESHARE PROGRAM

In 2023, **15% of LAWA employees** used alternative modes of transportation in their commute to work, including transit, carpooling, or vanpooling; a 0.8% increase from 2022.

Through commuting via alternative modes of transportation, in 2023 LAWA employees:

saved a total of

145,978 gallons of gasoline

reduced

3,211,525 vehicle miles traveled, and

reduced

2,863,578 pounds of greenhouse gas (GHG) emissions

(1,299 metric tons of carbon dioxide equivalent [MTCO₂e]).

Which is equivalent to carbon sequestered by

1,51 acres
of U.S. forest per year



The LAWA Rideshare Office hosted Rideshare Week in October of 2023 with snack tables, rideshare related trivia, prizes and information on how employees can commute sustainably.

COMMUTELAX

LAWA published its second commuteLAX
Fiscal Year (FY) Annual Report highlighting the program's goals, initiatives, and plans for the future. During the second year of the program, several commute options were available for LAX employees in coordination with LA Metro, City of Inglewood, and Lennox, namely:

- Vanpool and Carpool—64 LAWA Vanpool routes open
- Metro Micro—on-demand shuttle service reserved through a mobile app

- Iride—on-demand app-based shuttle service to LAX for employees that live in Inglewood and Lennox
- Transit Planning—online trip planner tool available to plan routes. The tool also offers an interest form for LAWA employees to receive support from CommuteLAX staff in finding the most optimal route for their schedules and securing discounts for the selected route
- LAX FlyAway®—monthly LAX FlyAway® passes are offered to LAWA employees
- Guaranteed Ride Home—reimbursement program for LAX employees for up to two rides home per year through Metro's Guaranteed Ride Home Program
- Bike to Work—assistance from commuteLAX in finding the most optimal bike route and secure bike storage



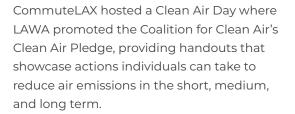












Since CommuteLAX launched the Transit Pass Program in 2022, **37 employees** have joined the program. This has resulted in a **reduction of 23,500 vehicle miles traveled** to LAX.

LAWA initiated **carpool parking incentives** in 2023 that offers preferential parking near shuttle spots and a 50% discount in employee lots.



The LAWA funded Iride

Program won an Association
for Commuter Transportation
(ACT) National Award in 2023
for achievement in Commuting

Options: Ridesharing.

FLYAWAY PROGRAM

The FlyAway Program served

1,716,454

riders in 2023, up

17.4% from 2022.

Ridership continues to grow yearover-year in post-COVID recovery.

- The program provides nonstop transportation between Union Station, VNY, and LAX. The program reduced personal vehicle travel by 1.3 million trips and 28 million vehicle miles traveled.
- The FlyAway Program saved 3,337 MTCO₂e, an increase of 26.6% from 2022.
- VNY added 2 daily trips in 2023 for a total of 130 trips per day.
- Union Station offered 80 trips per day.

AX FlyAway Program Bus

LAX

ELECTRIC VEHICLES AND CHARGING STATIONS

In 2023, the number of public EV charging stations throughout LAX **increased from 832** in 2022 to a total of 1,182 charging stations.

Over the course of 2023, vehicles charged at 719 stations in the CTA parking structures and at 463 stations in the LAX Economy Parking structure:

- Averaged 2 hours and 36 minutes of charging time per charging session
- Generated a revenue of \$226,114 from charging
- Were granted \$26,137 in EV charging discounts

Trends in EV charging at LAX showed dramatically increased utilization of charging equipment in 2023. Benefits from the 55,808 EV charging sessions in 2023 **increased by over 119%** relative to 2022:



Avoiding emissions of

755,727 pounds of GHG in 2023, up from

344,353 pounds

of GHG emissions prevented in 2022

Providing

861,301 miles travelled via charging in 2023,

up nearly 120%

from 392,459 miles travelled in 2022

Benefits in 2023 are equivalent to carbon sequestered by

400 acres

of forest per year.

LAWA received first place at the LADWP

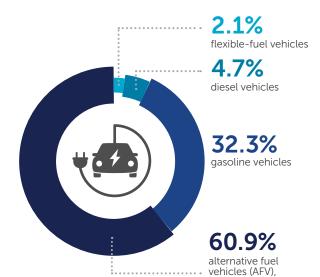
2023 Sustainability Leadership Awards for
Electrification of Transportation for the
Charge Up LA! Program participation,
which installed 11 DC Fast Chargers across
LAX's campus.

LAX VEHICLE FLEET

In 2023, LAWA continued to diversify fleet vehicles; achieving electrification of

27.3% of LAX's fleet.

In 2023, LAX's vehicle fleet consisted of:



Electric Vehicle Purchasing Policy

LAWA updated its EV Purchasing Policy in 2022 with the following goals:

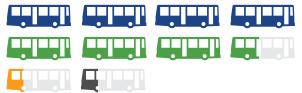
including EVs

- 25% of LAWA's sedan fleet to be EV by 2023, which was achieved in 2023 with 53.3% of sedan fleet electrified
- 100% of LAWA's sedan fleet to be EV by 2031
- Pursue a Zero-Emission First Purchasing Policy for sedans and light-duty vehicles, when available and technically feasible



Zero Emissions Bus Fleet

In 2023, LAX had a total of 40 buses in its fleet including **20 electric**, **18 compressed natural gas (CNG)**, **1 diesel**, and **1 gasoline**. LAWA's SAP identified a goal of 20% of LAWA's owned bus fleet to be zero emissions by 2023 and 100% by 2030. LAWA has surpassed its 2023 goal with 50% of the LAWA owned bus fleet being electric.





= diesel

31

(7)





















LAX VEHICLE ELECTRIFICATION PROGRAMS AND INITIATIVES

- In 2023, LAX received an Federal Aviation Administration (FAA) Airport Improvement grant for \$2,640,000 for the purchase of 4 zero emission electric buses.
- In early 2023, Menzies Aviation began piloting electric vans and charging infrastructure at LAX. The 60-day pilot program evaluated the use of electric cargo vans in various operations.



■ In 2023, LAWA launched a LAX Electric Ground Support **Equipment (eGSE) Incentive program**, which offers to buy-down the cost of new, electric zero-emission eGSE that replaces conventionally fueled GSE with electric equipment. The incentive program encourages operators to expedite the replacement of conventionally-fueled GSE and will reduce emissions.





GROUND SUPPORT EQUIPMENT EMISSIONS POLICY UPDATE

In 2019, LAWA's SAP established the following LAX GSE **Emissions Goals:**

1.8 grams/horsepower-hour 1.0 g/hp-h of NOx+HC by 2031 (g/hp-hr) of Nitrous Oxides (NOx)

+ hydrocarbons (HC) by 2023

(LAWA continued to

achieve its 2023 goal

In 2023, the aggregated GSE emission factor for LAX was 1.04 g/hp-h of NOx+HC, which demonstrated that:



LAWA is approaching its 2031 target performance level

GHG EMISSIONS

Since 2013, total GHG Emissions for Scope 1 & Scope 2 decreased by 38.7% to 86,641 MT CO,e. Increased demand from passengers and the newly opened West Gates at the TBIT contributed to increased energy loads compared to 2022. However, this was counteracted by progress in energy efficiency measures and the use of electric and AFV.

"I manage the incentive program, which included providing presentations and researching electric GSE's to ensure replacement yielded the greatest emissions reductions. 'Our preference is to replace Tier 0 and Tier 1 diesel and/or pre-2010 gasoline engines since these are the dirtiest ones LAWA is proud of the LAX eGSE Incentive Program as it is the first of its kind in the nation. The incentive program works with tenants and operators to replace existing



LAX is electrified that DHL introduced

charger to charge eGSE at LAX

the AmpCart and operating this portable

AMYLOU CANONIZADO AX EGSE INCENTIVE ROGRAM MANAGER

equipment with new electric options."

ACCREDITATION COMMITMENT LAX maintained its status of Level 3 **Airport Carbon Accreditation (ACA)**

AIRPORT CARBON

Verification in 2023. LAWA began the process to upgrade its LAX ACA status from Level 3 to Level 4 in 2023.

THE GOOD TRAVELER

The Good Traveler program, launched in 2021 at LAX, allows travelers to purchase carbon emission offsets for their flights. The tool estimates the cost of offsets based on the distance traveled. The program funds projects that lower carbon emissions such as sustainable tree plantings for carbon capture or investment in clean, zero-emissions wind energy production.

IN 2023, LAX TRAVELERS OFFSET **172 METRIC** TONS OF CO, THROUGH THE PROGRAM.

SUSTAINABLE AVIATION JET FUEL

In 2023, 8.8 million gallons of blended 30% SAF/70% JET-A was delivered to LAX which was an increase of 22% from 2022.

© LAWA

AAAE ACT'S SUSTAINABLE ENERGY AND RESILIENCY WORKING GROUP

The American Association of Airport Executives' (AAAE) Airport Consortium on Transformation (ACT) Program is conducting a study on sustainable energy and resiliency, with a focus on reducing CO₂ emissions. The study, carried out by the ACT's Sustainable Energy and Resiliency working group, involves understanding energy capacity at airports and implementing a pilot program for eGSE chargers at four airports, including LAX, to evaluate their effectiveness and impact.

TRANSPORTATION NETWORK COMPANIES

Transportation Network Companies (Lyft, Opoli, and Uber) eliminated:

2,686 vehicle trips through shared rides

1,409,559 vehicle trips through Rematch, a

program that connects drivers dropping off passengers with new passengers to pick up without leaving the airport, reducing vehicle quantities, traffic, and congestion in the LAX CTA. This is compared to 1,097,888 vehicle trips eliminated in 2022, a 28.4% increase in 2023.





AIR EMISSIONS MANAGEMENT



A total of **60 EV charging stations** are available for users at VNY.

VNY FLEET

VNY

The VNY fleet composition changed slightly from 2022 to 2023, with a reduction in number of flex fuel vehicles. AFVs accounted for 40.9% of VNY's fleet in 2023, with 18 of the fleet's 44 vehicles operating using alternative fuels.

In 2023, fleet vehicles consumed 18,220 gallons of unleaded fuel which is an increase from the 16,271 gallons consumed in 2022. Diesel fuel

consumption from VNY fleet vehicles also increased from 1,698 gallons in 2022 to 3,656 gallons.

GHG EMISSIONS

Compared to the baseline in 2013, Scope 1 and 2 emissions decreased **47.54%**. The reduction was primarily attributed to Scope 1 vehicle emissions, which decreased 54.03% since 2013 from 404.6 MTCO₂e to 185 MTCO₂e.

In 2023, Signature Aviation announced it had achieved carbon neutrality for Scope 1 and Scope 2 emissions from Signature facilities globally in 2022 and intended to continue neutrality moving forward. As a

fixed based operator (FBO) at VNY, Signature Aviation's achievement contributes to reducing Scope 3 emissions at VNY; reducing the overall emissions from VNY.

AIRPORT CARBON ACCREDITATION **COMMITMENT**

VNY ACHIEVED LEVEL 3 ACA VERIFICATION IN 2021 AND SUCCESSFULLY MAINTAINED ITS STATUS IN 2023.

LAWA began the process to upgrade its VNY ACA status from Level 3 to Level 4 in 2023.

SUSTAINABLE AVIATION JET FUEL

In 2023, Jet Aviation, Signature, and Clay Lacy delivered a total of 90,819 gallons of SAF.

UNLEADED AVIATION FUEL

In 2023, 4,058 gallons of unleaded aviation fuel were received, and 2,127 gallons were sold. The fuel is available for purchase for compatible piston aircraft and was first used at VNY in 2022. VNY continued to offer an 11 cents per gallon delivery fee waiver for unleaded aviation fuel, making the fuel more price competitive in comparison with other aviation fuels. The use of unleaded aviation fuel is in support of the FAA's goal of all unleaded fuel for piston-powered aircraft by 2030.





the expansion of the Organic Food

toward statewide targets related to







MATERIAL RESOURCES MANAGEMENT

O



975 tons

LAX

of commingled materials

The commingled recycling waste stream is made up of paper, cardboard, glass, and aluminum collected from single stream recycling bins around LAX.

LAX OPERATIONS WASTE DIVERSION

LAX had a diversion rate of

30.9 %

for its operations at LAX excluding Construction and Demolition (C&D) waste

LAX's diversion rate **Continues to exceed** the SAP goal for 2025 of over

25% of materials diverted

CONSTRUCTION WASTE DIVERSION

LAWA continues to work towards its construction waste diversion goals with contractual construction waste recycling requirements, which include:

- Airfield and Terminal Modernization Project (ATMP)
- » North Airfield Exit Taxiways (NAET): 85%
- » Taxiway D Extension (from TWY P-AA): 85%

THE AUTOMATED PEOPLE MOVER PROJECT HAD AN **89.5% DIVERSION RATE** FOR CONSTRUCTION WASTE IN 2023, EXCEEDING ITS CONTRACTUAL REQUIREMENTS.

FOOD DONATION POLICY

LAWA Concessions **donated 18,842 lbs of food in 2023** through the LAX Food
Donation Program.

LAX ORGANIC FOOD WASTE COLLECTION PROGRAM

In 2017, LAWA partnered with **Los Angeles Bureau of Sanitation & Environment (LASAN)**to implement an organic food waste collection pilot with restaurants and concessionaires at LAX. The program allows restaurants and concessionaires to dispose of food waste separately, while LASAN collects the food

waste and transports it for processing.

In 2023, LAWA collected

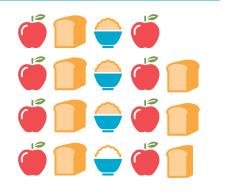
469.6 tons of organic food waste

from LAX which is a 73.9%

noverse from 201

increase from 2022

LAWA is currently still on track to recycle **90%** of C&D waste by 2025.



EMPLOYEE SA

"I helped to

each icon = 1,000 lbs of food donated

coordinate the donation
collections run in collaboration
with LASAN. The donation drives have
helped LAWA to assist LASAN in the collection
of necessary goods for the unsheltered population
of Los Angeles. LAWA employees have access to
several donation receptacles in our office buildings that
conveniently provide a second life for many household
items that would otherwise go to the landfill. LAWA is
always looking for ways to promote sustainability, so
what better way than to help surrounding
communities at the same time."

ETHAN SMALL ENVIRONMENTAL SPECIALIST SUSTAINABLE CAMPUS PROJECTS

LOS ANGELES SANITATION & ENVIRONMENT DONATION DRIVES

Each year LASAN organizes donation drives to collect items across the City to deliver them to organizations who distribute every day items to those in need. In 2023, LAWA hosted donation collection points at LAX for **six donation drives:** Children's Clothing and Profession (Men and Women) Drive, Non-Perishable Food Drive, Toiletries for the Homeless Drive, Used Toy Drive, Condiments and Utensils Drive, and the Blankets and Socks Drive.

SINGLE USE PLASTIC BOTTLE BAN

In July 2023, LAWA officially prohibited the sale of single-use plastic water bottles at LAX and VNY after a two-year phase out in a move to reduce plastic waste and achieve zero waste. In 2021, the BOAC unanimously voted to begin the phase out as a part of L.A.'s Green New Deal. As part of the policy, LAWA and businesses at LAX and VNY are required to replace single-use plastic water bottles with more sustainable alternatives, such as recyclable aluminum or glass containers. In anticipation of this ban, more hydration stations have been installed throughout LAX's terminals to provide passengers with easy access to drinking water.

Following Implementation of the singleuse plastic water bottle ban in June 2023, **approximately**

4,749,296

non-plastic single-use water bottles were sold at LAX in through the end of 2023



SUSTAIN WITH LOVE CAMPAIGN

LAWA launched the *Sustain with Love* campaign, providing guests with exclusive LOVE at LAX water bottles. This initiative supports LAX's mission to reduce single-use plastic water bottles and encourages guests to use the airport's hydration stations, with the bottles themselves made from 100% recycled stainless steel and featuring the signature LOVE graffiti of Los Angeles artist Ruben Rojas.



"The climate crisis is a great challenge facing our city, and phasing out single-use plastic water bottles at LAWA facilities is an important step to reducing our environmental footprint and protecting the health and livelihood of all Angelenos, I want to thank LAWA for serving as a leader among airports around the world working to achieve a more sustainable future."

- Los Angeles Mayor Karen Bass

Y

36



SUSTAINABLE CONSTRUCTION PRACTICES

In 2023 LAWA added approximately 783,000 square feet of building space to its portfolio of certified sustainable certifications, which was accomplished with 3 LEED Gold certifications. A number of other projects at LAX also achieved awards for sustainable design.





LEED CERTIFICATIONS IN 2023

The 2023 increase in certified sustainable construction was a 19% increase from the 2021 portfolio.

All LAX construction projects are required to achieve a minimum of Leadership of Energy and Environmental Design (LEED) Silver certification from the U.S. Green Building Council (USGBC). The following projects received LEED certifications in 2023:

- Consolidated Rent-A-Car Facility—ConRAC received **LEED Gold certification**. ConRAC is a part of LAX's Landside Access Modernization Program (LAMP), which will consolidate and streamline rental car operations, reduce 3,200 daily rental car shuttle trips, and provide a direct connection to the Automated People Mover (APM). This project will cut down on airport congestion due to its location adjacent to the 405 freeway and connection to the APM. It will also integrate sustainable elements such as native and droughttolerant landscaping, a reclaimed water usage system, and a photovoltaic (PV) solar panel array into its façades, roofs, and parking canopies. ConRAC is set to open in 2024.
- Terminal 4.5—The Terminal 4.5 Vertical Core received LEED Gold certification. Terminal 4.5 Vertical Core is a part of the \$1.62 billion Terminal 4 and 5 Modernization Project and provides a centralized location between Terminal 4 and 5 and will eventually serve as an access point to the APM's West CTA station The Terminal 4.5 Core opened in late 2022.

EMPLOYEE

"I was the
Assistant Element Manager
for the Airport Police Facility
project. The main benefit of the project
was enhancing the level of service and
improvement of operational efficiency by
consolidating all Airport Police groups, which
were previously spread throughout LAWA
campus, into one consolidated state of
the art LEED Gold certified facility."

JEAN YUANAIRPORT ENGINEER II

"LAX's new Airport Police Facility opened a little over a year and a half ago, and since then, my team, members of the surrounding community and I have enjoyed the benefits of greater efficiency, safety and sustainability because of the building's design," said Los Angeles Airport Police Chief Cecil W. Rhambo Jr. "Being headquartered in a LEED Gold certified facility brings even more satisfaction to our work of ensuring the safe and secure operations of the airport."

• Airport Police Facility—The APF at LAX achieved LEED Gold certification. The APF, which is designed to also adhere to the California Green Building Standards Code, CalGreen Tier 1, features a dualpiping system for recycled water use, a PV solar array, a parking structure with 33 EV chargers, and landscaping with native and drought-resistant plants. The APF opened in 2021.



Airport Police Facility achieved LEED Gold Certification in 2023















ON-GOING SUSTAINABLE CONSTRUCTION AT LAX

DELTA SKYWAY PROJECT

Delta and LAWA jointly invested \$2.3 billion at LAX to build a new state-of-the art terminal by merging Terminals 2 & 3 and connecting the new terminal to the TBIT.

In May, Delta and LAWA celebrated the opening of Delta's new **West Head House and Delta One Check-in and Ticketing Lobby at LAX's Terminal**

3. The new facilities include new and

expanded passenger amenities, such as self-service kiosks and more streamlined movement throughout the space. The project was built using 30% local labor and incorporates sustainable design elements to meet LAWA's commitment to eliminate carbon emissions from facilities and meet CalGreen and USGBC LEED Silver certification standards.

In August, LAWA and Delta opened the final section of the project, an **enclosed passageway** providing a direct post-security connection between Terminal 3 and the TBIT, which will **enhance travelers' experiences by eliminating the need for busing between terminals.** This is the first time in LAX's history that unrestricted terminal to terminal access

has been available.



AUTOMATED PEOPLE MOVER

The APM will include **44 train cars** that, during peak hours, will arrive at each station **every 2 minutes** and can carry up to **200 passengers per train.** The APM has been designed to receive 44% of its operational energy from **onsite solar panels.** The APM is anticipated to be completed in 2025 and is currently tracking to receive LEED Platinum Certification.



AIRFIELD & TERMINAL MODERNIZATION PROJECT

The ATMP is a group of projects that will

enhance LAX's airfield, terminals, and landside sites with a focus on Concourse 0, Terminal 9, airfield safety improvements, and an elevated roadway system. The project will **reduce traffic congestion**, allow for less aircraft idling, which will reduce air pollutant emissions, and provide connections to the APM train system and mass transit. Construction and operational readiness phases will also create opportunities for local businesses and jobs for the community; in addition to the full time staff needed once the projects are open. The first projects were awarded construction contracts in 2022 with construction starting in 2023. The projects are anticipated to be completed prior to the 2028 Olympics and achieve LEED Silver certification from USGBC.



TERMINAL MODERNIZATION

Terminals 4 and 5 are home to American Airlines, JetBlue, and Spirit Airlines. The modernization of these terminals include a new Terminal Vertical Core, additional space for passenger amenities in Terminal 4, and improvements to Terminal 4's power systems. Direct, **natural sunlight** coupled with reflective materials to **mitigate heat impacts** is a priority throughout the terminals and will help to reduce energy consumption. The project is designed to earn LEED Silver certification from the USGBC and was ongoing in 2023 with anticipated completion scheduled for 2028.

TERMINAL 6 IMPROVEMENTS

Projects included under Terminal 6
Improvements focus on enhancing the customer experience in gate areas, lounges, and passenger boarding bridges, as well as airside improvements. The project also includes improvements to the U.S. Customs and Border Protection's Federal Inspection Station and will modernize the Transportation Security Administration's (TSA's) Security Screening Checkpoint with additional lanes. Terminal 6 will be connected to the APM through the Terminal 5.5 vertical core. In 2023, LAX celebrated a construction milestone with the **topping out of Terminal 6.** Terminal 6 improvements are anticipated to be complete in 2024.

MIDFIELD SATELLITE CONCOURSE SOUTH

In June, construction began on the Midfield

Satellite Concourse (MSC) South, an extension of the West Gates at Tom Bradley International Terminal. The project, which will add approximately 150,000 square feet and eight gates for narrowbody aircraft, will use a first-ofits-kind construction technique to LAWA called Offsite Construction and Relocation (OCR), allowing the concourse to be built in segments offsite and then assembled in place, saving time and public funds. The project will feature a brise soleil system, a system that is designed to block sunlight and reduce inside heat, in order to enable passive cooling and energy conservation for the project to reach its goal of LEED Silver certification.

ADDITIONAL CONSTRUCTION ADVANCEMENTS

• LAX was granted an additional \$31 million in funding through the Bipartisan Infrastructure Law (BIL) to reconfigure and reconstruct its terminal roadway systems. This funding will be used to modernize the roadway systems, including the main entrance to the airport, and is expected to improve traffic flow and reduce vehicle congestion. This grant brings the total investment in LAX to \$81 million in the first two years of the FAA's funding program.

AWARDS

The ConRAC won the Energy and Operational Carbon Design Merit award from the US Green Building Council's Los Angeles chapter (USGBC-LA). The award recognized the over 5,000 jobs created and \$200M in wages

generated through project implementation.
The ConRAC facility will **reduce energy use by 36%** and **operational carbon by 1,220,000 pounds per year.**

■ The APM was named the 2023 Trailblazer Project of the Year by the Los Angeles Sustainability Coalition (LASC). The award recognizes the APM for its sustainable design and its contribution to reducing reliance on personal vehicles through its 2.25-mile elevated guideway and six stations across the LAX campus. The zero-emission APM generates its own power through a regenerative braking system and solar arrays. This improvement is expected to provide a streamlined airport arrival and departure experience when it opens in 2025.

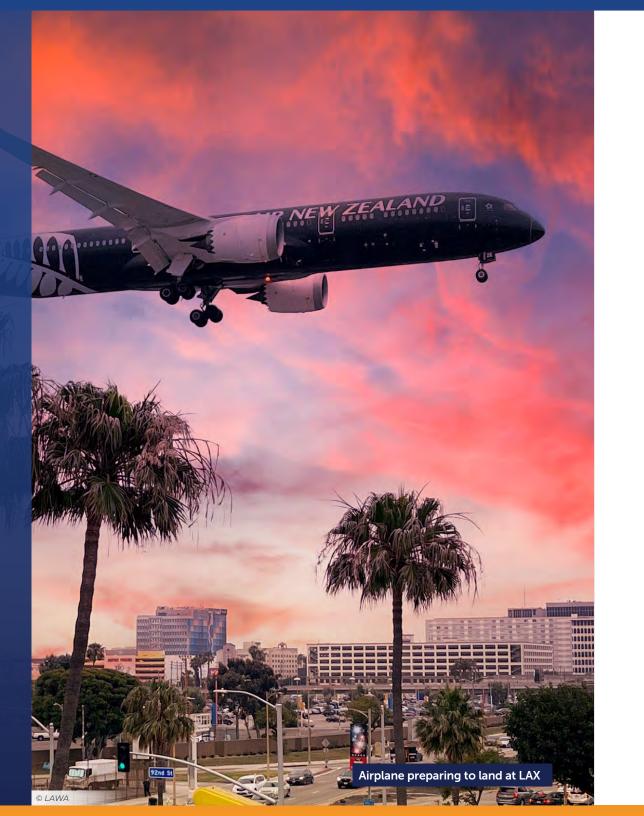




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NOISE MANAGEMENT

LAWA has successfully reduced noise impact in communities surrounding both LAX and VNY through noise mitigation and abatement measures. LAWA expanded the LAX Sound Insulation Program, providing insulation for more homes, and the opening of a Residential Sound Insulation Showroom in 2023. LAWA was also recognized with an award for noise portals for both LAX and VNY. Through the Fly Quieter Program and Friendly Flyer Program, LAWA keeps recognizing airlines at LAX and aircraft operators at VNY for their efforts to reduce noise in surrounding communities.



LAWA

LAWA's Noise Portal for LAX and VNY was selected as one of the five prestigious 2023 Environmental Achievement Awards handed out each year by the ACI-NA Environmental Affairs Committee to recognize its airport members that strive to protect and preserve the environment through its programs, initiatives and projects. The Noise Portal was chosen as the 2023 winner in the "Outreach, Education, and Community Involvement" category for its innovative design and approach in delivering easy-to-understand, interactive, neighborhood-specific information, graphics, videos, and reports on aircraft flight activity, noise

abatement programs, and other relevant information to residents throughout Southern California. The noise portal for LAX and VNY can be accessed from the adjacent QR codes.





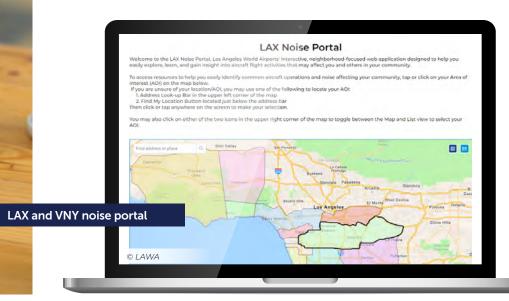


Portal's innovative approach in delivering neighborhood-specific, multi-media rich, easy-to-understand information has helped us to deal with the noise concerns from residents more efficiently. It has allowed LAWA staff to provide timely and relevant information, as well as keep members of the public informed about the ongoing work related to their noise concerns. The Noise Portal provides value to LAWA and the neighboring communities by increasing public engagement and raising stakeholder awareness and trust."



OANNE CHOI EAD ANALYTICAL CONTENT MANAGER

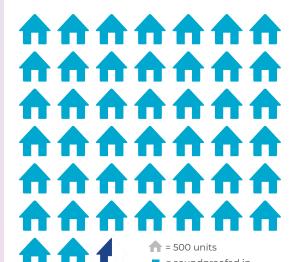




SOUND INSULATION

In 2023, an additional **250 homes** were soundproofed in the City of Inglewood and Los Angeles County, for a total of

completed to date.



The LAX Residential Sound Insulation (RSI) **Showroom**, a part of the LAX RSI Program, was officially opened in a ribbon cutting ceremony on July 31 that included Congresswoman Maxine Waters and Los Angeles City Councilmember Traci Park. The program, funded by the FAA and LAWA, aims to mitigate aircraft noise for eligible homes

= soundproofed in 2023

near LAX by providing new sound-insulated windows and doors. Over the next few years, approximately 2,400 dwellings in El Segundo and Los Angeles are expected to receive sound insulation through the program, which has a total budget of \$143 million.

FLY QUIETER PROGRAM

LAWA recognized nine airlines as winners of the 2023 LAX Fly Quieter Program (FQP). Airlines were divided into three different categories depending on the number of daily operations. This program recognizes airlines that have demonstrated a commitment to reducing aircraft noise and improving the quality of life for local communities.



	CATEGORY 1	CATEGORY 2	CATEGORY 3
	100+ Operations daily	5-99 Operations Daily	1-4 Operations Daily
Gold	United	Volaris	Breeze Airways
Silver	American	Avianca	Fiji Airways
Bronze	Southwest	Spirit	Lynx Air

The FQP encourages commercial airlines at LAX to comply with noise abatement programs and procedures, and implement voluntary measures to reduce LAX's noise footprint. The program promotes on-going airline education awareness, and participation. LAWA evaluates each airline's noise score based on program criteria. The program has resulted in

increased airline engagement with local communities through participation in the LAX/Community Noise Roundtable. It also recognizes certain airlines that participate in retrofitting their existing A320 aircraft with vortex generators to reduce noise during landing. Spirit, JetBlue, and American completed their A320 retrofit programs in 2022 and United finished in 2023.

LAX/COMMUNITY NOISE ROUNDTABLE: **WORKING TOGETHER TO ADDRESS NOISE ISSUES**

Starting in 2000, LAWA has brought together elected officials, community groups, airlines, and the FAA to work collaboratively to identify and address noise issues at the LAX Roundtable.

One of the Roundtable's current priorities is addressing noise issues that arose from the FAA's SoCal Metroplex Project. LAWA is actively exploring solutions, such as reverting the LADYJ departure route to the historical route, ensuring aircraft fly at certain altitudes and reviewing new flight procedures that may affect residential communities.

LAWA acknowledges that changing flight procedures can be difficult and take time, but is committed to working together to find feasible solutions that benefit stakeholders. Through open dialogue and collaboration, the Roundtable is making progress towards reducing noise in affected communities. For more information. please visit the Roundtable webpage at www.lawa.org/LAXNoiseRoundTable.aspx.





QUIETER NIGHTS PROGRAM

LAWA implemented the **VNY Quieter** Nights Program (QNP) in March 2020. It is a voluntary program which encourages jet aircraft operators to avoid arrivals and departures at VNY between 11 p.m. and 7 a.m. whenever possible, unless the aircraft are involved in military, law enforcement, emergency, fire or air ambulance/life flight operations.

LAWA Noise Management continues its

outreach and engagement with based and transient operators to promote noise abatement at VNY through the QNP. Specifically, VNY received commitments from operators to avoid maintenance and repositioning flights during the QNP hours. Staff continues to meet with and provide information to aircraft operators on how they can decrease nighttime flights, especially in the first and last hour of the program where many flights occur.

VNY staff attended the **National Business Aviation Association Schedulers and Dispatchers** Conference to engage with industry representatives on the QNP. To encourage participation, the program continues to be incorporated in the VNY Friendly Flyer Awards Program.

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daytime Jets total Jets 4.514 2019 53.759 7.7% 2,797 44,063 2020 6.0% 2021 4,097 65,810 5.9% 2022 4,361 65,192 6.3% 4.521 2023 60.357 7.0%

VNY FRIENDLY FLYER AWARD WINNERS

Twenty one operators earned the 2023 Friendly Flyer Award with 3 first-time winners, and 18 repeat winners. The program publicly recognized jet aircraft operators who do an exemplary job following all VNY noise abatement policies and programs.

FIRST-TIME WINNERS FlyHouse

Planet Nine Private Air. LLC Vista America

REPEAT WINNERS

Clay Lacy Aviation

Executive Jet Management, Inc. XOJET Aviation, LLC

Latitude 33 Aviation, LLC Chrysler Aviation, Inc.

Silver Air

Circadian Aviation. LLC

(Formerly known as Gama Aviation)

Jet Edge International

Prime Jet, LLC

Jet Aviation Flight Services, Inc.

Air Lease Corporation

Cirrus Aviation Services Trans-Exec Air Service, Inc.

Leonard Green & Partners, LP

Pacific Coast Jet. LLC

Paragon Airways

STA Jets

Verijet, Inc.

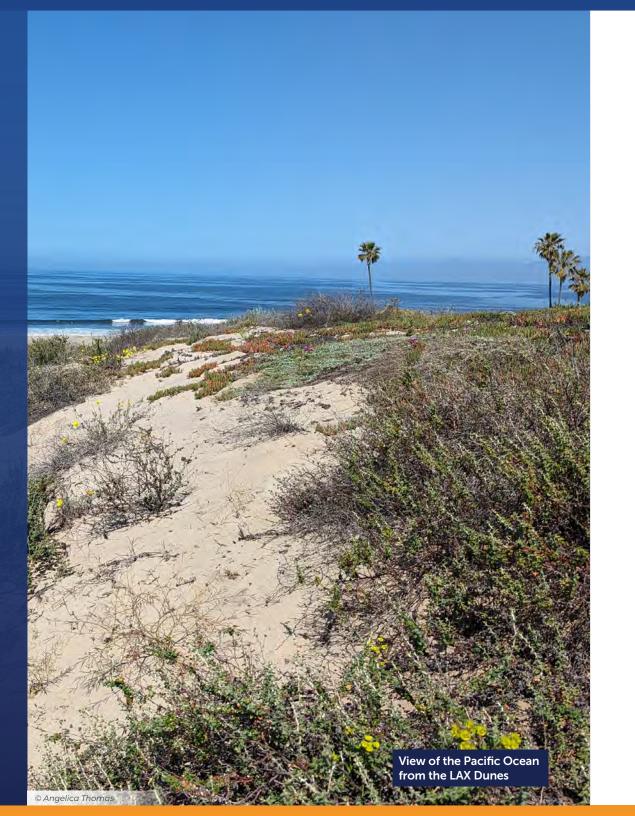
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NATURAL RESOURCES MANAGEMENT

In 2023, LAWA continued efforts to improve natural areas and protect local flora and fauna important to supporting biological diversity and natural resource functions.

Restoration activities continued to remove non-native species and promote native species growth within coastal dunes.



LA

EL SEGUNDO BLUE BUTTERFLY

Official population counts of the El Segundo Blue Butterfly (ESBB) occur every 2 years, with the next scheduled for 2024. A 2023 monitoring report estimated that the ESBB population has

48% in 2023 compared to 2022

ESBB TOURS

In 2023, LAWA held an **internal ESBB Tour for over 100 employees** during the height of the ESBB flight season. This educational tour spread awareness about projects in the LAX Dunes and the native fauna and flora that live there.

CALIFORNIA NATURAL RESOURCES AGENCY GRANT IN THE ESBB HRA

LAWA was **awarded a \$500,000 grant** from the California Natural Resources Agency to complete restoration in 50 acres of core habitat for the ESBB. This grant accounts for a quarter of the El Segundo Blue Butterfly Habitat Restoration Area (HRA) and once completed will expand the habitat of the ESBB and move LAWA closer to delisting the endangered species.

Two El Segundo
Blue Butterflies,
the bright blue
color denotes
the male, and
the muted
brown denotes
the female



LAX DUNE RESTORATION

In the 1980's, LAWA began restoring the LAX Dunes, which comprise 307 acres of coastal sand dunes located on the western portion of the airport. The LAX Dunes are home to over 900 species of flora and fauna, including the federally endangered ESBB, and sensitive species such as the Southern California Legless Lizard and San Diego Horned Lizard.

LAX DUNE RESTORATION EVENTS

In 2023, a combined

10,900 pounds of invasive and non-native vegetation were removed across the Northern and Southern

removed across the Northern and Southern Dunes. This work was performed over the course of

15 events with a total of

362 volunteers

785 hours























LAWA's partnership with LA Zoo has removed approximately **6,000 lbs** of non-native Acacia from the LAX Dunes. The invasive shrub is native to the Australian continent and used as feed and bedding for a variety of animals in their enclosures.

LAWA's partner, The Bay Foundation (TBF), completed its planting program by adding **adding 4,141 native plants in 2023** as a part of the Coastal Dunes Improvement Project (CDIP) in the northern section of the LAX Dunes. Vegetation surveys conducted in 2023 show that restoration efforts in the area have been effective in reducing non-native cover. Additionally, survey results consistently show that there is higher native cover and lower non-native cover within the CDIP area when compared to outside areas.

"My main role is to work
with stakeholders, regulatory
agencies, contractors, non-profits, and the
public to help design and implement restoration
projects in the LAX Dunes and other natural resource
projects on the airfield. Our restoration projects support native
plants and animals in the southern coastal dune ecosystem, which
includes endangered and threatened species such as the El Segundo
lue Butterfly and the California Gnatcatcher. I also help host volunteer

includes endangered and threatened species such as the El Segundo
Blue Butterfly and the California Gnatcatcher. I also help host volunteer
events in the LAX Dunes about once or twice a month to offer members of
the public and our tenants a chance to connect with the ecosystem and have
a hand in the restoration, while offering education about the native flora and
fauna of the dunes. Many airports make commitments to restore or protect
surrounding wildlife as a part of their sustainability initiatives; however, LAWA
is unique because we own the land and directly contribute to LA City's
biodiversity goals and initiatives. This ecosystem is essential because it
contributes to long-term sustainable use of our facilities by ensuring
surrounding wildlife is minimally impacted by our operations and
preserves some of the ecosystem benefits of the dunes which
we may benefit from much further in the future."

ANGELICA THOMAS

ENVIRONMENTAL SPECIALIST II



RESTORATION EVENTS WITH DELTA AIRLINES

Since October 2023, Delta worked with LAWA to help **restore 1.1 acres of land** in the ESBB Habitat Restoration Area (HRA) which houses the federally endangered ESBB. These events helped to **remove nearly 5,000 lbs of invasive plants** with over **100 volunteers dedicating over 200 volunteer hours** to the restoration process.

There is a goal to plant 1,340 native plant species through these events, including Seacliff Buckwheat plants (Eriogonum parvifolium), the sole host plant of the ESBB.

COMMUNITY VOLUNTEER DAYS

LAWA has **published an events calendar** for the public to sign up for restoration events. The page has increased the visibility of the LAX dunes and highlights the importance of this precious dune habitat. More information on upcoming events can be found from the QR code below.









WILDLIFE HAZARD MITIGATION

LAWA continues to work with US Fish & Wildlife Service (USFWS), US Department of Agriculture (USDA) Biologists, and tenant airlines to reduce the amount of wildlife strikes on the airfield. Efforts include capture and release of live birds that land on the airfield, furnishing airlines with strike kits, and identifying possible triggers for strikes. This imperative work protects passengers and property from wildlife strikes and improves airport safety during take-offs and landings.



























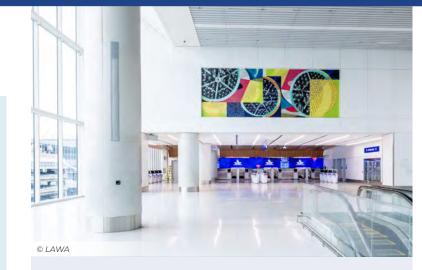
GREEN BONDS

In 2023, LAWA issued multiple Green Bonds, with an external review from an accredited provider of Second Party Opinions. The Green Bonds partially finance seven projects at LAX. Each of which is evaluated by the verifier for conformance with International Capital Markets Association Green Bond Principles. LAWA issues Green Bonds in order to provide transparency for market participants on the intended uses of proceeds and features incorporated to reduce environmental impacts.

Green Bonds are any type of bond instrument where proceeds will be exclusively applied to finance or refinance eligible Green Projects that are aligned with the four core components of International Capital Markers Association (ICMA) Green Bond Principles: Use of Proceeds, Process for Project Evaluation and Selection, Management of Proceeds, and Reporting.

LAWA was the recipient of the 2023 Green Bond of the Year: U.S. Muni Bond by Environmental Finance award. This is the first time an airport has received this distinction, which recognizes LAWA's successful effort to raise \$546 million through Green Bonds in 2022 for the construction of the ConRAC facility, to advance the climate action goals of LAWA and the City of Los Angeles.





NORTH TERMINAL IMPROVEMENT **PROJECT** (2022 SERIES G)

The North Terminal Improvement Project is the replacement and associated improvements of Terminal 3 in partnership with Delta Airlines. The Project includes a walkway connection to Tom Bradley International Terminal, access to the APM, new gates, and other passenger amenities. The Project is on track to achieve LEED Gold certification at minimum through energy saving technologies incorporated in the escalator, high efficiency LED lighting and sensors to reduce energy use for lighting, and low flow water fixtures. The Project consists of 40+ LEED Environmental Product Declarations (EPDs) and 20+ LEED Material Ingredient Products.

- Status: Construction is anticipated to be completed in Q4 of 2024.
- Energy Performance: Will improve energy use by 7.4% and will reduce cost by 26.3% from the baseline.
- Waste Diversion: At least 90% of C&D waste has been diverted to date.
- LEED Certification Status: On track for LEED Gold certification.



AUTOMATED PEOPLE MOVER (2022 SERIES I)

The Automated People Mover (APM) is a part of the LAX's (LAMP). The APM is a fully electrified train system that provides connectivity to regional public transit, the Consolidated Rent-A-Car Facility (ConRAC), and the Central Terminal Area (CTA). The project received Envision Gold Verification and is anticipated to achieve LEED Gold certification.

- Status: Anticipated completion in April 2025.
- Energy Performance: Almost 44% of the APM's operational energy will be supplied by on-site PV arrays.
- Waste Diversion: To date, 92.8% of C&D waste has been diverted.
- LEED Certification Status: On track for LEED Platinum certification for the Maintenance and Storage Facility and achieved Envision Gold for the APM.



TERMINAL 4 MODERNIZATION PROGRAM (2022 SERIES G)

The Terminal 4 Modernization Program consists of activities within Terminal 4 where American Airlines currently operates. The Program includes the consolidation of 30 gates to improve passenger mobility, the development of a new connection to Terminal 5, offices, central areas for ticketing, security, and baggage claim, as well as a connection to the APM. The Program will achieve LEED Silver certification at a minimum through its anticipated reduction of indoor water use and the purchase of energy credits.

- Status: Terminal 4.5 was completed in Q4 of 2022; Terminal 4 is anticipated to be completed by Q1 of 2028.
- Energy Performance:
- T4.5 Heat Island Reduction benefits were achieved through specialized roughing and advanced energy meters were installed.
- T4 Design factors will reduce energy use intensity (EUI) by 7.6% and energy cost savings by 13.7% over baseline conditions.

- Water Savings:
- T4.5 indoor water use will be reduced by 41.4% from the baseline by installing low-flow fixtures.
- T4 indoor water use will be reduced 42.3% from the baseline by installing low-flow fixtures. Once reclaimed water is put into use, indoor potable water use will be 75.5% less than the baseline.

Waste Diversion:

- T4.5 Final waste diversion was 91.87%.
- T4 99% of organized and standard waste collection waste is diverted and 80% of mixed C&D waste has been diverted to date.

LEED Certification Status:

- T4.5 achieved LEED Gold Certification in March 2023:
- T4 on track for LEED Silver.























TERMINAL 5 AND TOM BRADLEY INTERNATIONAL TERMINAL VERTICAL **CORE PROJECTS** (2022 SERIES G)

The Terminal 5 and Tom Bradley International Terminal (TBIT) Vertical Core projects are aimed at allowing better mobility and connectivity between terminals with the APM. The Project will achieve LEED Silver certification at minimum through the implementation of energy efficient designs, sustainable building materials, energy metering, and low-flow water fixtures. The projects consist of 40+ LEED EPDs and 20+ LEED Material Ingredient Products.

- Status: T5.5— completed in Q3 of 2023; TBIT—expected completion in Q2 of 2024.
- Energy Performance: T5.5 8.5% energy reduction from the LEED baseline with an energy cost savings of 8.5%; TBIT — 7.8% energy reduction from the LEED baseline with an energy cost savings of 7.8%.
- Waste Diversion: To date, more than 90% of C&D waste has been diverted.
- · LEED Certification Status: On track for LEED Silver Certification.



CONSOLIDATED RENT-A-CAR FACILITY (2022 SERIES A)

The Consolidated Rent-A-Car Facility (ConRAC) is a part of the LAX's LAMP. The ConRAC will consist of 234 EV charging stations upon opening with future capacity for up to 305 charging stations. The project also includes the installation of efficient LED interior and exterior lighting, drought resistant landscaping, employee amenities such as bike racks, waste diversion, and a solar array that will provide at least 60% of the building's energy needs. The project will help alleviate traffic congestion by consolidating the location of rental cars and provide infrastructure to accommodate increasing EV use. The ConRAC was awarded Envision Gold Verification.

- Status: Anticipated completion in March 2024
- Energy Performance: Installation of 234 level 2 chargers. 15,106 solar panels will generate 4.83 MW of clean energy to power at least 60% of ConRAC operational needs.
- Waste Diversion: Approximately 85% of waste diverted from demolition
- LEED Certification Status: Achieved LEED Gold certification in July 2023



WEST GATES AT TOM BRADLEY INTERNATIONAL TERMINAL (FORMERLY MIDFIELD SATELLITE CONCOURSE NORTH), (2023 SERIES A)

The TBIT West Gates Project opened in May 2021 and Green bonds refunded Subordinate Commercial Paper Notes that financed a portion of its costs. The Project achieved LEED Gold Certification and consists of a multilevel 15-gate concourse, to include gates equipped with ground powered and pre-conditioned air, low-flow water fixtures, efficient HVAC and lighting systems reducing energy usage by 29%, and plumbing to use reclaimed water for restrooms and other non-potable uses. In addition, more than 75% of construction waste was recycled.

Allocation of proceeds: \$85 million

• Energy Performance: 27.8%

• Water Savings: 40.6%

• Gates electrified: 15

• Square footage: 750,000 sf



BRADLEY WEST AND TERMINAL 4 CONNECTOR (2023 SFRIFS A)

Green bonds refunded prior bonds which financed a portion of the **Bradley West and T4 Connector** project and consisted of improvements to the TBIT and construction of a new Connector Building to join TBIT with Terminal 4. The Bradley West Project was opened in 2015 and achieved LEED Gold Certification. The T4 Connector was opened in 2016 and exceeded Green Building Code Tier 2 Requirements sent by the City of Los Angeles by 37%. T4 Connector includes space for circulation, baggage inspection fitted with energy efficient motors reducing energy consumption by 40%, security areas and an outdoor public plaza.

- Allocation of proceeds: Bradley West-\$80,085,000, T4 Connector-\$90,600,000, Series 2013A Bonds
- Energy Savings: Bradley West- 21.2%, T4 Connector- 37%:
- Water Savings: Bradley West- 30.4%, T4 Connector - Two water filling stations
- Gates electrified: Bradley West-13 gates, T4 Connector-N/A
- Square footage: Bradley West-1,215,925 sf, T4 Connector-104,170 sf

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AWARDS







CORPORATE RESPONSIBILITY

- LAWA's Airport Operational Readiness program was presented with the prestigious OPCONIC Award as Stakeholder Virtuoso from the Academy of Operations Enablement Professionals
- LAWA was awarded the Certificate of **Reporting** by the **Government Finance** in a row LAWA has received this award.

- LAWA was awarded the Public Sector Award at the Innovate@UCLA 2023 Executive **Leadership Awards** for innovation and technology-driven transformation.
- The City of Inglewood's Iride Program, which is supported by LAWA and the City of Los Angeles, received the **Outstanding Achievement in Pursuit of Sustainability** within the Aviation Industry by the American Association of Airport Executives (AAAE) Airports Going Green (AGG) Conference. LAWA funds this microtransit program in partnership with the City of Inglewood.
- LAWA was the first airport to be distinguished by the Environmental Finance's 2023 Green Bond of the Year: **U.S. Muni Bond Award**. The award was granted for LAWA's Series 2022A Customer Facility Charge Bond and acknowledged

- LAWA's efforts to raise \$546 million to finance the construction of LAX's ConRAC through the issuance of Green Bonds.
- LAX received the Inclusion Champion Award by Airports Council International-North America (ACI-NA) for notable business and workforce inclusion, diversity, and outreach.
- LAX achieved the **Public Health & Safety** Readiness Accreditation from ACI-NA
- LAX was ranked third among US airports for best lounges by travel specialist Upgraded **Points** which considered factors such as hours of operation, amenities, and customer reviews.
- VNY was honored with the 2023 Corporate **Community Service Award** by the **Regional** Cal Black Chamber San Fernando, recognizing VNY's significant contributions to the regional economy.

PEOPLE



LAWA BOAC member, Victor Narro, was recognized with the Excellence in Community Service Award by the **Mexican American Legal Defense and Educational Fund.**



LAWA Chief Development Officer, **Terri Mestas**, was honored as one of the Los Angeles Business Journal's **Women** of Influence: 2023 Construction, **Engineering & Architecture.**



Janay Wilson, a HireLAX Graduate currently working on the Roadway and Utility Enabling (RUE) project, won the **North America's Building Trades** Unions' Tradeswomen Heroes Award.



Airport Planner **James Owen** was recognized in the **Airport Business** Magazine's Top 40 Under 40 List for his contribution to LAX's Airfield and Terminal Modernization Project (ATMP).



ENERGY MANAGEMENT

■ LAWA was recognized as a third-place winner in the **Leadership Category for** the Demand Response Program at the 2023 LADWP Sustainability Awards, acknowledging the various energy saving actions throughout LAX facilities.

AIR QUALITY

- LAWA's Charge Up LA! Program won the first-place award in the Level 3 section of Electrification of Transportation at the **2023 LADWP** Sustainability Awards.
- The City of Inglewood's Iride Program won a 2023 Association for Commuter **Transportation (ACT) National Award** for achievement in Commuting Options: Ridesharing.

SUSTAINABLE CONSTRUCTION

- American Council of Engineering **Companies (ACEC)** Los Angeles County Chapter awarded LAWA its 2023 Client of the Year award.
- LAX's Terminal 4.5 Core achieved LEED Gold Status from the U.S. Green Building Council (USGBC).
- LAX's new ConRAC facility achieved **LEED Gold Status** from the USGBC.
- LAX's Airport Police Facility (APF) achieved LEED Gold Status from the USGBC.

- LAX's new **ConRAC** facility received the **Energy** and Operational Carbon Design Merit Award at the **USGBC Los Angeles Sustainable Innovation Awards.**
- The Los Angeles Sustainability Coalition (LASC) awarded LAX's Automated People Mover (APM) with the 2023 Trailblazer Project of the Year.
- LAX's APF was recognized at the 2023 **Associated General Contractors of** California's Installation & Awards Gala. recognizing the general contractor, Hensel Phelps, in the Builder \$75-100 million category.

NOISE

 LAWA received an Environmental Achievement Award in the category of "Outreach, Education, and Community Involvement" at the ACI-NA Conference and **Exhibition** for LAWA's online Noise Portal.



- for its continued successful engagement of stakeholders at LAX.
- **Achievement for Excellence in Financial** Officers Association (GFOA). This award represents the highest honor in financial reporting transparency and the twelfth year









SUSTAINABILITY REPORT | 2023



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