



LAWA

LOS ANGELES WORLD AIRPORTS

**SUSTAINABILITY
REPORT**

2024

CONTENTS

Message from our Chief Executive Officer	1
LAWA Executive Management and Governance	2
Acknowledgments	3
Acronyms	4
Executive Summary	5
Sustainability Action Plan Update	7
Energy Management	9
Water Management	12
Air Emissions Management	15
Material Resources Management	19
Noise Management	22
Natural Resources Management	24
Corporate Responsibility	26
Sustainable Construction and Green Bonds	29

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



MESSAGE FROM OUR CHIEF EXECUTIVE OFFICER



GREETINGS!

On behalf of Los Angeles World Airports (LAWA), I am pleased to share our 2024 Annual Sustainability Report. Over the past year, we have made significant strides toward building a more sustainable and resilient airport system.

This report — developed by our Sustainability team, with support from various divisions and stakeholders across the organization — highlights LAWA's ongoing sustainability initiatives, commitments, and accomplishments at Los Angeles International Airport (LAX) and Van Nuys Airport (VNY).

In 2024, LAWA continued to lead the aviation industry with impactful initiatives and transformative projects. LAX increased operational waste diversion to 33%, supported by the launch of passenger-facing organics collection that encourages passengers to actively participate in our sustainability efforts. LAWA also had success in reducing air emissions by formally adopting the LAX Zero-Emission Ground Support Equipment Policy, and upgrading to Airport Council International's Airport Carbon Accreditation Level 4 for LAX and VNY — making VNY the first general aviation airport in the Americas to achieve this distinction. These efforts reinforce LAWA's commitment to curtailing operational emissions and establishing climate leadership.

Key accomplishments and milestones for 2024 include:

- Achieved a 67% electric sedan fleet
- Received 1st Place Leadership Award in Demand Response from Los Angeles Department of Water and Power
- Increased organic waste diversion by 48% since 2023
- Removed 146,000+ pounds of non-native plant species from the LAX Dunes
- Achieved Leadership in Energy and Environmental Design Platinum for the Automated People Mover Maintenance and Storage Facility

Our success is a direct result of the dedication of our employees, tenants, and partnerships with local agencies, businesses, and organizations. We will continue our work to make LAWA a leader in the aviation industry and drive forward our goals for a cleaner and more sustainable future for everyone.

A handwritten signature in black ink, appearing to read 'J. Ackerman'.

John Ackerman

Chief Executive Officer, Los Angeles World Airports

LAWA EXECUTIVE MANAGEMENT AND GOVERNANCE

EXECUTIVE BOARD STRUCTURE AND OVERSIGHT

LAWA is a proprietary department of the City of Los Angeles which owns and operates LAX and VNY. LAWA is governed by the Board of Airport Commissioners, which is comprised of public-spirited business and civic leaders appointed by the Mayor of Los Angeles and approved by City Council. Current members include:



Karim Webb
(President)



Matthew Johnson
(Vice President)



Vanessa Aramayo



Courtney La Bau



Victor Narro



Nicholas Roxborough



Valeria Velasco

LAWA EXECUTIVE MANAGEMENT

- + **John Ackerman**, *Chief Executive Officer*
- + **Marla Bleavins**, *Chief Airport Administrative Officer*
- + **Michael Christensen**, *Chief Airport Development Officer*
- + **Becca Doten**, *Chief of Staff*
- + **Ian Law**, *Chief Innovation & Experience Officer*
- + **Brian C. Ostler**, *General Counsel*
- + **Doug Webster**, *Chief Operations & Maintenance Officer*
- + **Robert Lowe**, *Chief People & Culture Officer*
- + **Tatiana Starostina**, *Chief Financial Officer*
- + **Jacob Adams**, *Deputy Executive Director, LAMP*
- + **Harold Samms**, *Deputy Executive Director, LAMP Performance*
- + **Richard Connolly**, *Deputy Executive Director, Facilities Management*
- + **Martin Elam**, *Deputy Executive Director, Public Safety & Security*
- + **Mark Frank**, *Deputy Executive Director, Sourcing & Economic Impact*
- + **Jacob Haik**, *VNY Airport Manager*
- + **Crystal Lee**, *Deputy Executive Director, Sustainability, Energy, Environmental & Development Services*
- + **Emery Molnar**, *Deputy Executive Director, Airport Development Program*
- + **Aura Moore**, *Deputy Executive Director, Information Management & Technology*
- + **Courtney Moore**, *Deputy Executive Director, Strategy, Innovation & Experience*
- + **David Reich**, *Deputy Executive Director, Mobility Strategy*
- + **Cecil Rhambo Jr**, *Chief of Airport Police*
- + **Vanessa Rodriguez**, *Deputy Executive Director, External Affairs*
- + **Hans Thilenius**, *Deputy Executive Director, Terminal Development & Improvement Program*
- + **Erin Trapp**, *Deputy Executive Director, Major Events & Strategy*
- + **Diego Alvarez**, *Deputy Executive Director, Capital Planning, Oversight, Management, and Analytics*

ACKNOWLEDGMENTS

LAWA Sustainability would like to thank the numerous individuals and divisions below for contributing information to the 2024 LAWA Sustainability report.

COMPILED BY THE LAWA SUSTAINABILITY TEAM

- + **Crystal Lee**, *Executive Oversight*
- + **Michelle Barton**, *Project Oversight*
- + **Mahsa Ostowari**, *Project Management, Content Lead*
- + **Olivia Walker**, *Design Support*
- + **Ethan Small**, *Design Lead*
- + **Andres Ramirez Fromm**, *Data and Analytics Lead*

LAWA DIVISIONS

Sustainability, Energy,
Environmental & Development
Services

Facilities, Maintenance & Utilities

Business and Jobs Resources

Guest Services

Public Relations

Community Relations

Planning and Development

Rideshare

Landside Management and
Airport Permits

Van Nuys Airport

EXTERNAL LAWA PARTNERS

Los Angeles Department of Water
and Power

SoCal Gas

LA Sanitation & Environment

Menzies Aviation/LAXFuel Corp

**And thank you to those
we might have missed!**

A flight taking off over Bradley West Gates



ACRONYMS

ACA	Airport Carbon Accreditation
APM	Automated People Mover
BOAC	Board of Airport Commissioners
C&D	Construction and Demolition
CEO	Chief Executive Officer
CTA	Central Terminal Area
CUP	Central Utility Plant
DVBE	Disabled Veteran Business Enterprise
eGSE	Electric Ground Support Equipment
EPD	Environmental Product Declaration
EV	Electric Vehicle

FAA	Federal Aviation Administration
FBO	Fixed Based Operators
GHG	Greenhouse Gas
GSE	Ground Support Equipment
HC	Hydrocarbons
kBtu	Thousand British Thermal Units
kW	Kilowatt
LADWP	Los Angeles Department of Water and Power
LAMP	Landside Access Modernization Program
LAWA	Los Angeles World Airports
LAX	Los Angeles International Airport
LBE	Local Business Enterprise
LEED	Leadership in Energy and Environmental Design

LSBE	Local Small Business Enterprise
MATOC	Multiple Award Task Order Contract
MTCO₂e	Metric Tons of Carbon Dioxide Equivalent
MW	Megawatt
NOx	Nitrogen Oxides
PV	Photovoltaic
RSI	Residential Sound Insulation
SAF	Synthetic Aviation Fuel
SAP	Sustainable Action Plan
SBE	Small Business Enterprise
TBIT	Tom Bradley International Terminal
VIP	Volunteer Information Professionals
VNY	Van Nuys Airport



A flight landing on Runway 24R

© LAWA

The Automated People Mover
track loops around the Air
Traffic Control Tower

EXECUTIVE SUMMARY

In 2024, LAWA continued to build on its leadership in sustainability excellence. This report highlights LAWA's progress towards the goals outlined in its 2019 Sustainability Action Plan (SAP) and the broad range of initiatives that underscore LAWA's commitment to a greener and more inclusive future.



2024 LAWA Airport Statistics

LAX

- 76.6 million passengers
- 513,260 flight operations
- 2.4 million tons of cargo

VNY

- 340,061 flight operations

IN 2024, LAWA made considerable progress in energy management, with per-passenger energy consumption at LAX achieving a 19% reduction since 2011. VNY also demonstrated a 16% reduction in total energy consumption since 2011 and received a \$1.5 million grant for a decarbonization study to guide future emission reductions.

LAX and VNY demonstrated leadership in air emissions management by upgrading to Airport Carbon Accreditation Level 4 and moving closer to the SAP goal of carbon neutrality by 2045. Pioneering programs like the LAX Zero-Emission Ground Support Equipment Policy underscore the tangible progress toward the airport's SAP goals.

LAWA continued to enhance its material resource management by launching a passenger-facing organics collection program at LAX food courts. New streams and standardized waste bin labels supported a 33% overall

operational waste diversion rate. Water conservation measures have been pivotal at both airports and VNY recorded a 34% reduction in potable water usage since 2017. LAX is poised to realize significant increases in reclaimed water use in LAX facilities through a landmark 30-year memorandum of understanding with the Los Angeles Department of Water and Power.

In 2024, LAWA removed 146,000 pounds (73 tons) of non-native plant material from the LAX Dunes, preparing the Dunes for future installation of native plant species to support LAWA's habitat restoration goals.

LAWA also maintained a strong focus on community impact, continuing sound mitigation for homes in El Segundo and Los Angeles impacted by aircraft noise through the LAX Residential Sound Insulation Program. At the same time, LAWA recommitted to being a good employer with groundbreaking inclusivity requirements in the Multiple Award Task Order Contract for Capital Programs ratified by the Los Angeles City Council in April 2024.

The 2024 Annual Sustainability Report affirms LAWA's commitment to exceeding sustainability goals through strategic partnerships, innovative policies, and strong community

engagement. This past year marked a period of significant progress and momentum, laying the foundation for a more resilient, efficient, and environmentally responsible future. Looking ahead, LAWA is poised to advance these efforts even further and push even more boldly towards zero, setting a transformative path for the years to come.

Key Successes in 2024 include:

- LAX achieved its 2031 ground support equipment emission factor reduction target seven years early
- Increased FlyAway ridership 5.6% from 2023 and saved over 29.5 million vehicle miles traveled
- Increased Synthetic Aviation Fuel use at LAX over 400% from 2023
- Exceeded 2025 SAP goal for energy use per passenger ahead of schedule
- Decreased the proportion of gas consumed compared to electricity at LAX by 26% since 2011
- Increased organic waste diversion 48% from 2023
- Exceeded 2025 SAP goal for waste diversion for the third year in a row
- Completed sound insulation for 288 homes as part of the Residential Sound Insulation Program
- Recognized nine airlines through the LAX Fly Quieter Program and 26 operators through the VNY Quieter Nights Program



SUSTAINABILITY ACTION PLAN UPDATE

The SAP 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. The following lists LAWA's seven sustainability categories, the corresponding SAP goals, and identifies the 2024 status of those goals.

For more detailed information on progress toward achieving subgoals, see the category chapters.

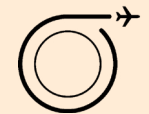
Status Indicators:



Making progress
toward goal



On track to achieve
goal by goal date



Goal achieved
and ongoing



ENERGY MANAGEMENT



Achieve **100%** renewable electricity by 2045



Reduce energy use per passenger **15%** by 2025, **30%** by 2035, and **65%** by 2045 over 2011 levels



WATER MANAGEMENT



Reduce potable water use by 2045

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



AIR EMISSIONS MANAGEMENT



Carbon neutrality by 2045

- Reduce greenhouse gas emissions **55%** by 2025 and **65%** by 2035
- Upgrade to higher Airport Carbon Accreditation level by 2023



Reduce fossil fuel emissions from airport-related vehicles and equipment from vehicle conversion and operational change

- Stronger ground support equipment targets
- Zero-emission bus fleet by 2030
- **100%** compliance with LAX Alternative Fuel Vehicle Policy



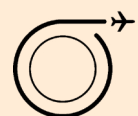
Status Indicators:



Making progress toward goal



On track to achieve goal by goal date



Goal achieved and ongoing



MATERIAL RESOURCES MANAGEMENT



Improve waste reduction and recycling programs

- Develop a zero waste plan by 2020
- Achieve an operational waste diversion rate of **25%** by 2025 and **50%** by 2035



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



NOISE MANAGEMENT



Implement the LAX Fly Quieter and VNY Quieter Nights programs



Launch web-based noise portals for LAX and VNY



Continue with the Sound Insulation Grant Program as funds are identified



NATURAL RESOURCES MANAGEMENT



Restore the natural habitat of the LAX Dunes to support native flora and fauna, including threatened and endangered species, by:

- Striving for the natural addition of flora and fauna with no net loss of biodiversity
- Implementing invasive plant management in the El Segundo Blue Butterfly Habitat Restoration Area
- Continuing to improve the Coastal Dunes Improvement Project
- Continuing weeding and restoration activities



Secure grants that will benefit the LAX Dunes



© LAWA

The LAX Dunes



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



ENERGY MANAGEMENT

As one of the world's busiest airports, LAX has a significant energy footprint, making energy stewardship essential to its operations and long-term sustainability goals. LAWA is advancing energy efficiency, integrating renewable sources, and modernizing infrastructure to reduce emissions and improve resilience. Our focus on energy reflects a commitment to operational excellence, climate action, and leadership in sustainable airport management.

GOAL 1



100% renewable energy by 2045

GOAL 2



Reduce energy use per passenger 15% by 2025, 30% by 2035, and 65% by 2045*

2024 ACHIEVEMENTS



LAWA (LAX and VNY) electricity mix is 39.5% renewably sourced energy



LAX reduced per passenger energy use by 19%, exceeding the 2025 goal*



The proportion of LAX's energy consumption from natural gas decreased by over 26% since 2011



The Consolidated Rent-A-Car Facility (ConRAC) has 4 Megawatt (MW) of rooftop solar

**2011 baseline*

**Status
Indicators**



Making
progress
towards goal



On track to
achieve by
goal date



Goal
achieved and
ongoing

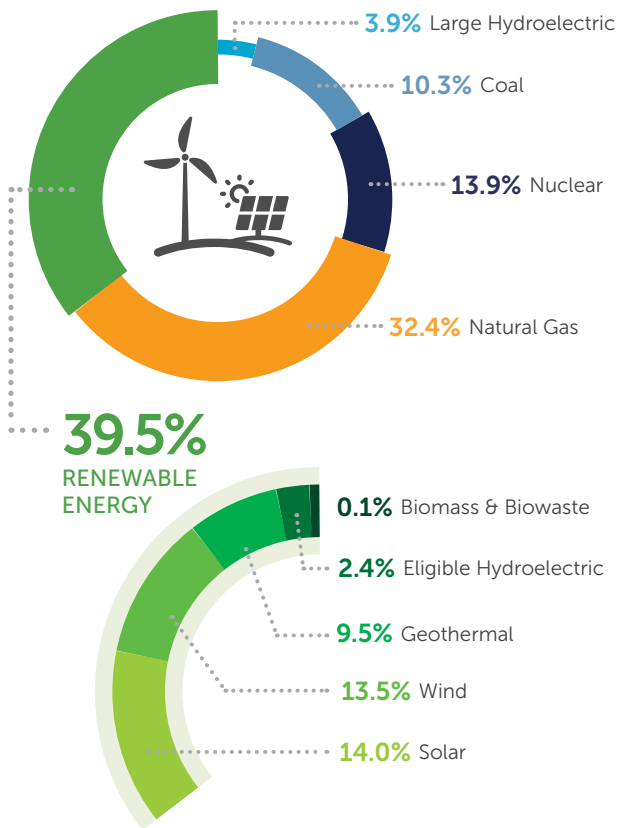
LAX Receiving Station X



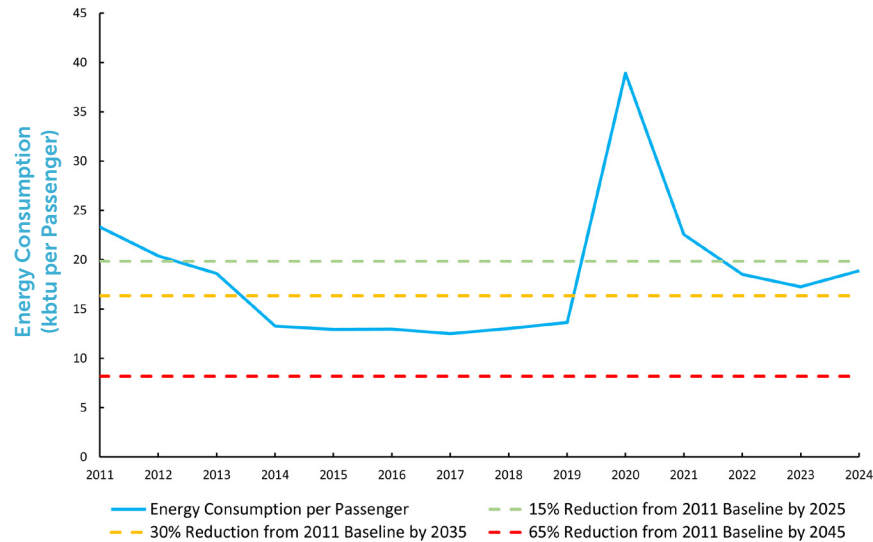
LADWP POWER GRID

The Los Angeles Department of Water and Power (LADWP) power grid supplies electricity to both LAX and VNY. LADWP is working to decarbonize LA's power supply by 2035.

As of publishing this report, LADWP sourced its electricity from the following:

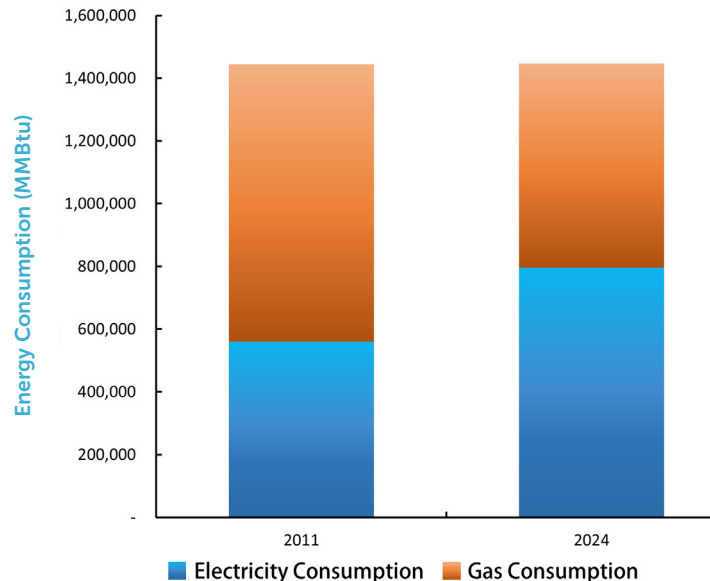


LAX Passenger Energy Consumption



In 2024, energy consumption per passenger decreased **19.1%** since 2011, achieving the 2025 target ahead of schedule.

LAX Total Energy Consumption



Since 2011, the proportion of gas consumed compared to electricity has decreased by **↓26.6%**

Gas consumption accounted for less than half of total energy consumption at LAX in 2024. LAWA expects this trend will continue as LAWA decarbonizes its buildings and shifts towards electrification.



LADWP DEMAND RESPONSE PROGRAM

LAWA received the **1st Place Leadership Award in Demand Response** for LADWP's Sustainability Awards Program, **curtailing 5,721 kilowatts (kW) of electricity** in 2024. LAWLA's participation in LADWP's Demand Response Program aids in peak demand management and supports grid stability.



UTILITY STRATEGIC PLAN

In 2024, LAWLA began updating its **Utility Strategic Plan** to guide future investments and energy strategy. This plan will lay out a 20-year roadmap to increase resilience, including the integration of microgrids and battery storage and explore electrification of the Central Utility Plant (CUP).

RECEIVING STATION X

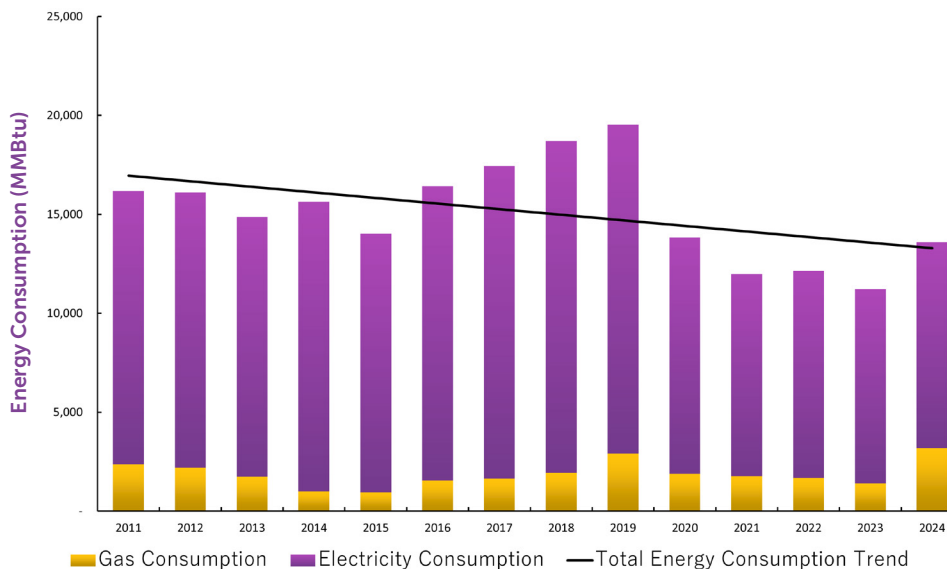
In 2024, LAWLA achieved a major energy use milestone with the completion of electrical **Receiving Station X**. Construction of a new receiving station will allow LAX to receive power from an on-site station separate from the existing power grid. The station is scheduled to go online in 2025, **adding significant capacity and redundancy to LAX's energy infrastructure**.

VNY

Total energy consumption: increased 21.1% since 2023 | **decreased 15.9% since 2011**

Gas consumption increased significantly from 2023 to 2024 due to equipment malfunctions, contributing to the increase in overall energy consumption in 2024. LAWLA is actively addressing the malfunctions.

VNY Total Energy Consumption



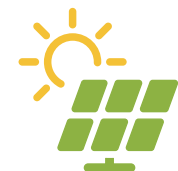
Rooftop solar at VNY

VNY DECARBONIZATION STUDY

In 2024, LAWLA received a **\$1.5 million dollar grant** from the Federal Aviation Administration (FAA) to prepare a Decarbonization Roadmap for VNY. The anticipated study will assess VNY's current energy consumption patterns and identify strategies to reduce consumption and VNY's overall carbon footprint.

SOLAR CAPACITY

Pacific Aviation completed construction of a **4.53 MW** photovoltaic (PV) system.



In 2024, LAWLA's Board of Airport Commissioners (BOAC) approved agreements with Current Energy for the development and operation of rooftop and parking canopy solar at three locations at VNY.



WATER MANAGEMENT

As a major hub in an arid region, LAWA recognizes the critical importance of water conservation. LAWA integrates innovative water-saving techniques and technologies to ensure resilience, reduce environmental impact, and support a sustainable future. Our focus on water not only aligns with LAWA's environmental goals but also exemplifies our commitment to stewardship and leadership in sustainable practices.

GOAL 1



Reduce Potable Water Use by 2045



Eliminating potable water consumption for non-potable uses, such as landscaping and cooling towers



Reducing potable water per passenger 25% by 2025 and 30% by 2035*

GOAL 2



Increase Recycled Water Use to 30% of Total Water Usage by 2035

2024 ACHIEVEMENTS



VNY reduced potable water usage by 34%*



LAWA replaced almost 3,000 square feet of turf with drought-tolerant and no water use landscaping



LAWA and LADWP revised their agreement to provide high quality recycled water to LAX for 30 years

*2017 baseline

In 2024, LAWA's environmental team toured Hyperion's Advanced Water Purification Facility

Status Indicators



Making progress towards goal



On track to achieve by goal date



Goal achieved and ongoing



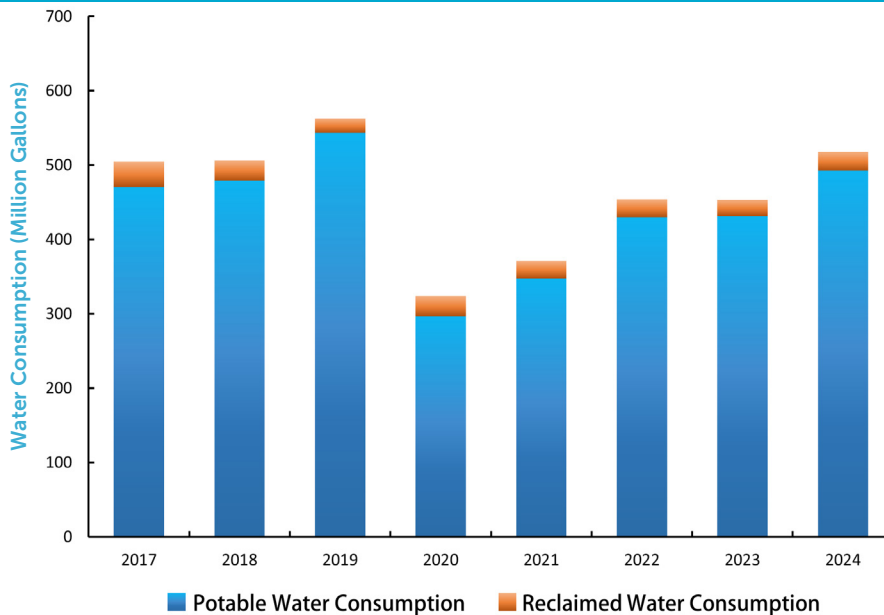
WATER CONSUMPTION AT LAX

Total potable water consumption per passenger at LAX increased 11.9% from 2023 and increased 15.5% compared to the 2017 baseline. Increases are attributable to significant construction activities to support the modernization of LAX in 2024 and previous years.

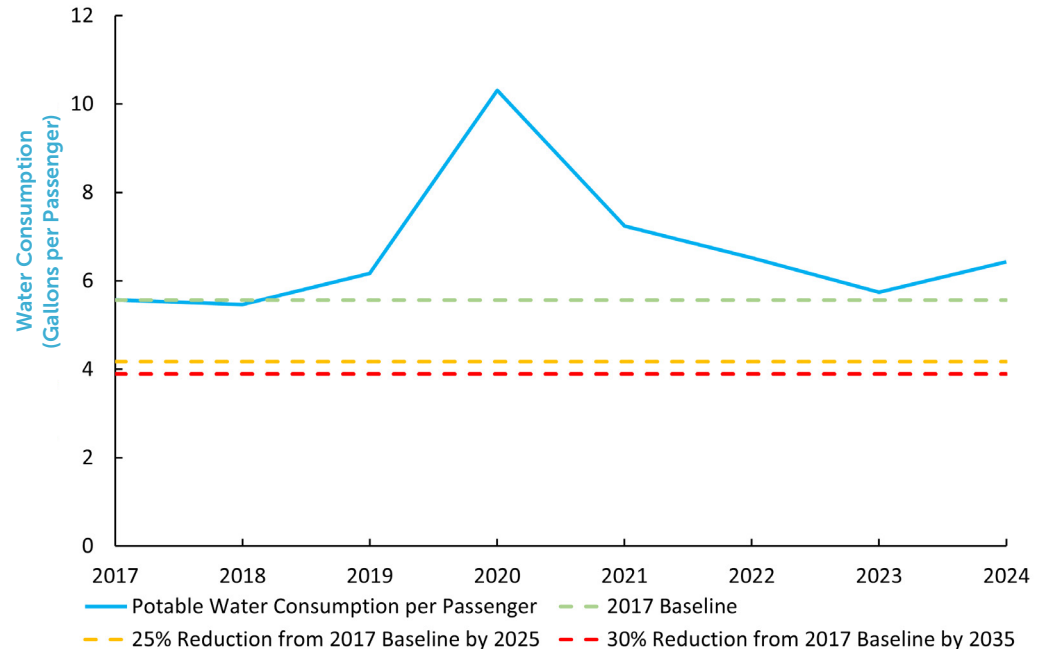
Reclaimed water use has remained steady since 2017, accounting for between 5% to 7% of total water use at LAX.

LAWA conducts annual benchmarking, building audits, and retro-commissioning to identify areas of opportunity within buildings systems to improve water efficiency.

LAX Total Water Consumption



LAX Potable Water Consumption Per Passenger





SUSTAINABLE LANDSCAPING

LAWA continues to replace water-intensive landscaping across the airport with hardscape and drought-tolerant plants. Educational signage accompanies these redesigned areas, informing visitors about the sustainable practices employed and the environmental benefits of such landscaping.

BEFORE



Converting almost 3,000 square feet of turf into drought-tolerant and no water use landscaping at LAX's Maintenance Facility.

AFTER



RECYCLED AND RECLAIMED WATER EXPANSION

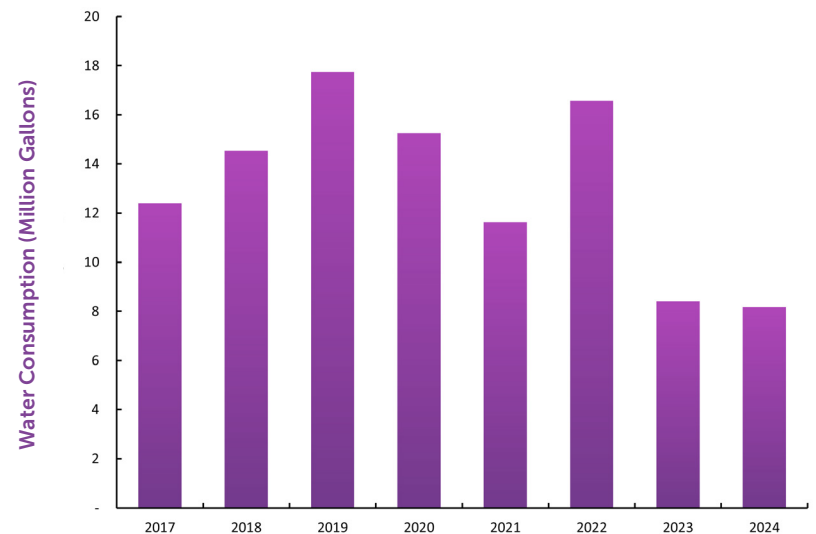
LAWA expects to see significant increases in reclaimed water use when the Hyperion Advanced Water Purification Facility comes online, which is expected to supply up to 1.5 million gallons of recycled water daily to LAX.

In 2024, LAWA updated their agreement with LADWP to supply recycled water to LAX for 30 years. This will facilitate a shift from potable to recycled water for the CUP and for non-potable uses in dual-plumbed facilities.

VNY

Total potable water consumption has decreased 3% from 2023 and **↓34%** from 12.4 million gallons in 2017 to 8.2 million gallons in 2024.

VNY Potable Water Consumption





AIR EMISSIONS MANAGEMENT



A flight taking off over Tom
Bradley International Terminal

LAWA continued to expand groundbreaking emissions reduction programs at LAX and push the boundaries of emissions reductions at one of the world's busiest general aviation airports at VNY.

GOAL 1



Carbon Neutrality by 2045



Reduce greenhouse gas (GHG) emissions 55% by 2025 and 65% by 2035*



Upgrade to higher Airport Carbon Accreditation (ACA) by 2023

GOAL 2



Reduce fossil fuel emissions from airport-related vehicles and equipment



Stronger ground support equipment (GSE) emissions reduction targets



Zero-emission bus fleet by 2030



Compliance with LAX Alternative Fuel Vehicle Policy

2024 ACHIEVEMENTS



GHG emission reductions are pending and will be updated upon verification



LAX achieved its 2031 GSE emission factor reduction target seven years early



LAX and VNY upgraded to ACA Level 4



BOAC approved the LAX Zero Emission GSE Policy

**2010 baseline (updated from 1990 for LAWA's Level 4 ACA)*

Status
Indicators



Making
progress
towards goal



On track to
achieve by
goal date



Goal
achieved and
ongoing



LAWA

RIDESHARE PROGRAM



LAWA's award winning Rideshare Program resulted in **68,628 fewer trips** to and from the airport for fiscal year 2024.

Through commuting via alternative modes of transportation, in 2024 LAWA employees:

saved a total of
160,060
gallons of gasoline

reduced
3,460,497
vehicle miles traveled (VMT)

reduced
1,435
metric tons of carbon
dioxide equivalent (MTCO₂e)

*Which is equivalent to carbon
sequestered by*

1,439 acres
of U.S. forest per year



FLYAWAY PROGRAM

The FlyAway Program served

1.8 million

riders in 2024, up

5.6% from 2023.

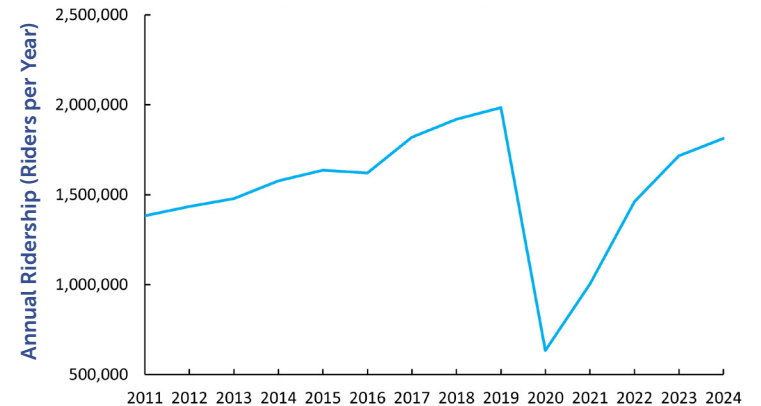
Since 2020, ridership has
steadily increased to nearly
pre-COVID levels

The program provides nonstop transportation between Union Station, VNY, and LAX. The program reduced personal vehicle travel by **29.5 million VMT** and **reduced GHG emissions by 3,521 MTCO₂e**.



Union Station to LAX Flyaway bus

FlyAway Program Ridership



COMMUTELAX

CommuteLAX is the airport's transportation management organization for airport employers and employees. It supports a wide range of commuting options, from rideshare and vanpools to dedicated shuttle services and transit planning.

Since inception in November 2022, **96 employees** have joined the program, eliminating **178,500 VMT** to LAX.

The LAWA iRide program operates a 100% electric shuttle fleet and transports airport employees from Inglewood and Lennox to and from the airport, **averaging 102 highly satisfied riders each weekday**.

GHG EMISSIONS

In 2024, LAWA continued its progress toward achieving carbon neutral operations by 2045.

- Scope 1 and 2 emissions at LAX **have been trending down** (*actual 2024 emission reductions are pending verification*).
- While emissions may increase slightly year-over-year due to increased demand from new facilities and expanded operations, overall emissions are declining thanks to energy efficiency improvements, increased electrification, and continued decarbonization of the grid.

In 2024, LAWA **upgraded to ACA Level 4 for LAX, accomplishing the SAP goal**. ACA Level 4 requires airports to:

- Set absolute emission reduction goals for Scope 1 and 2 sources that align with global climate goals.
- Develop a Carbon Management Plan to achieve those goals.
- Develop a Stakeholder Participation Plan that outlines how the airport actively encourages third parties operating at the airport to achieve emissions reductions, either by implementing their own reduction strategies or by participating in initiatives led by the airport operator.

LAX ALTERNATIVE FUEL VEHICLE POLICY

This policy requires operators of medium- and heavy-duty vehicles at LAX to use clean fuels and ensures that vehicles are no more than 13 years old.

For the 7th straight year, **100% of operators are in compliance**.

LAX VEHICLE FLEET

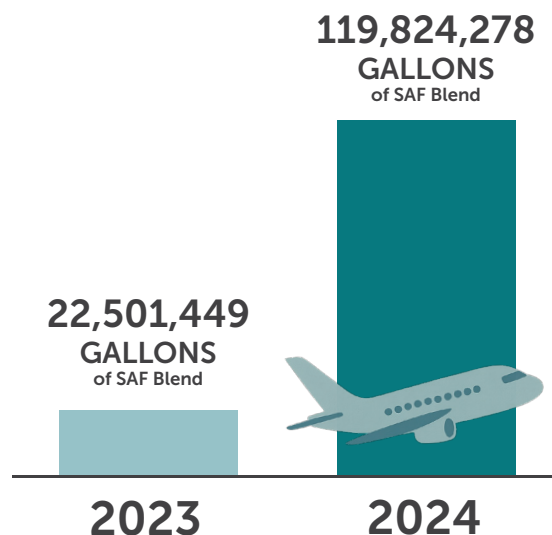
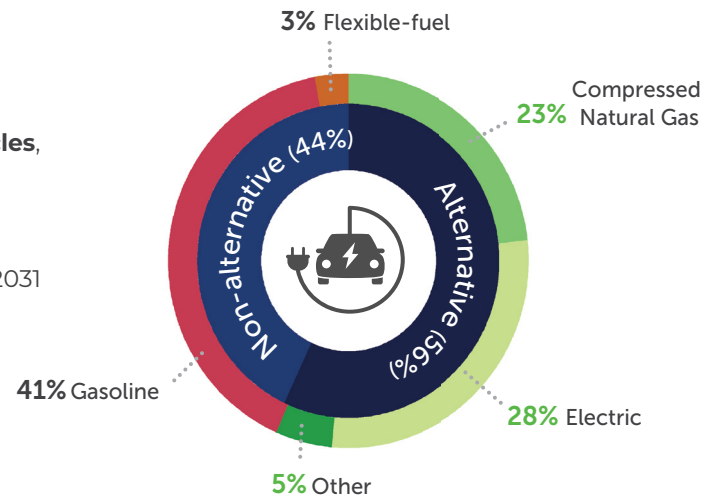
LAX's vehicle fleet in 2024 was comprised of approximately **56% alternatively fueled vehicles**, including 260 fully electric vehicles (EVs).

LAX's sedan fleet is **67% electric**, on track to achieving its goal of 100% electric sedans by 2031 as outlined in the EV Purchasing Policy.

ZERO EMISSION BUS FLEET

50% of the LAWA-owned bus fleet is electric.

LAWA received a **\$9.9 million grant from the FAA** to purchase additional electric buses, which will support LAWA's goal of a 100% electric bus fleet by 2030. As well, design is underway for a bus charging facility.



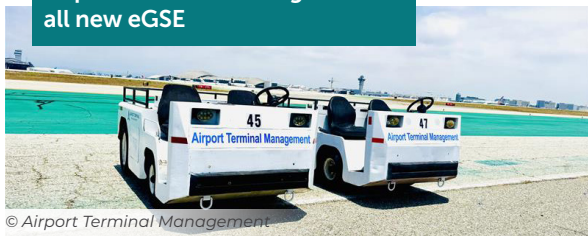
SYNTHETIC AVIATION FUEL (SAF)

In 2024, LAX Airlines increased the use of blended 30% SAF/70% Jet-A by **more than 400% from 2023**.

SAF, formerly known as Sustainable Aviation Fuel, is a biofuel made from renewable feedstock, making it a more sustainable alternative to conventional jet fuel. SAF has the potential to reduce lifecycle carbon emissions by up to 80% compared to conventional jet fuel.



Airport Terminal Management's all new eGSE



© Airport Terminal Management

EV CHARGING STATIONS

In 2024, the total number of publicly available EV chargers increased 7.6% from 2023, totaling **1,272 chargers**. This avoided 43 MTCO₂e, 4,859 gallons of gasoline, and provided an estimated 108,505 electric VMT.

VNY

GHG EMISSIONS

Scope 1 and 2 emissions at VNY **have been trending down** (*actual 2024 emission reductions are pending verification*).

In 2024, **VNY upgraded to ACA Level 4**, making it the only general aviation airport in the Americas with this achievement.

Electric tug at VNY



© LAWA

GSE

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

[*emission factor = grams/horsepower-hour (g/hp-hr) of Nitrogen Oxides (NOx) + Hydrocarbons (HC)*]

1.8 g/hp-hr
of NOx+HC by 2023

1.0 g/hp-hr
of NOx+HC by 2031

In 2024, the LAX GSE emission factor dropped to **0.96 g/hp-hr**, exceeding the 2031 target **seven years early**.

In January 2024, LAX adopted the Zero-Emission GSE Policy requiring all commercially available and operationally feasible GSE to be zero-emission by 2033.

In 2023, LAWA launched the **LAX Electric GSE (eGSE) Incentive Program** to encourage operators to purchase new, eGSE. As of 2024, LAWA has committed 100% of the \$500,000 program.

VNY FLEET

37.5% of VNY's vehicle fleet uses alternative fuels.

UNLEADED AVIATION FUEL

The shift to unleaded aviation fuel, like UL94, is driven by environmental and health concerns associated with lead emissions. The FAA's goal is to eliminate lead from aviation fuel by 2030.

Deliveries of UL94 to VNY **increased 311%** since the first deliveries in 2022.

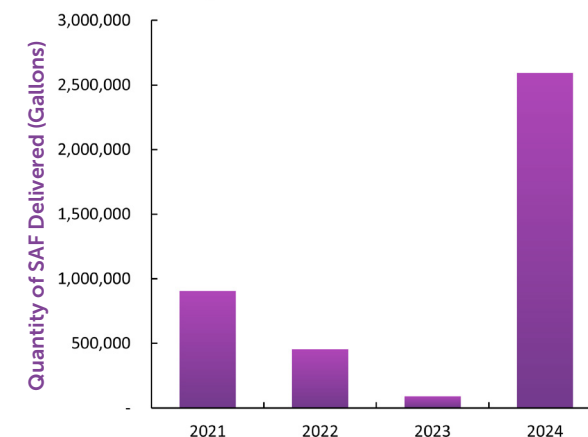


© LAWA

Electric belt loader at VNY

SAF

VNY SAF Use



VNY fixed base operators (FBOs) continue to lead general aviation airports in the use of SAF.

In 2024, **2.6 million gallons of SAF** were delivered to VNY FBOs- a **186% increase since 2021**.



MATERIAL RESOURCES MANAGEMENT

LAWA is committed to reducing waste and maximizing resource reuse across a diverse range of materials, from construction debris to food scraps. In 2024, LAWA introduced standardized labeling across all terminals to increase waste sorting accuracy and divert recyclables and compostables from landfill.

GOAL 1



Improve waste reduction and recycling programs



Develop a zero waste plan by 2020



Achieve an operational waste diversion rate of 25% by 2025 and 50% by 2035

GOAL 2



Achieve 90% construction waste diversion rate by 2025 and 95% by 2035

2024 ACHIEVEMENTS



LAWA achieved a 33% operational waste diversion rate, exceeding the 2025 target ahead of schedule



Four major capital projects at LAX achieved a minimum of 89% construction waste diversion rate



LAWA launched passenger-facing organics composting at LAX

Paired trash and recycling bins with standardized labels at LAX's Terminal 1.5 Connector

*Status
Indicators*



Making progress towards goal



On track to achieve by goal date



Goal achieved and ongoing



LAX

OPERATIONAL WASTE

LAX had a diversion rate of

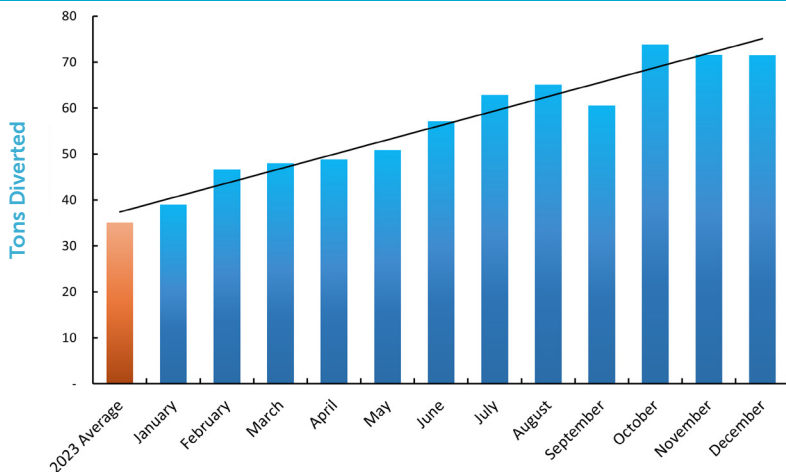
33% for its operations at LAX excluding Construction and Demolition (C&D) waste

LAX's diversion rate **exceeded** the SAP goal for 2025 of over 25% of materials diverted **for the 3rd year in a row**

The commingled recycling rate **increased by 34%** when compared to 2023

Organic waste collection at LAX **increased by almost 48%** since 2023

LAX Monthly Organics Diversion (2024)



STANDARDIZED WASTE BIN LABELING

In 2024, LAWA deployed standardized waste bin labels across all passenger-facing areas of the LAX Terminals to improve waste sorting accuracy. This effort, featuring clear and visible instructions on each bin, educates and encourages proper disposal of waste, thereby reducing contamination and increasing the effectiveness of recycling processes.



PASSENGER-FACING ORGANICS COLLECTION

In September 2024, LAWA launched the rollout of **passenger-facing organics collection** in the Central Terminal Area (CTA) food courts, which led to a substantial increase in landfill diversion.

Food scraps are now turned into compost, which can be used in lieu of fertilizer.





MATERIAL
RESOURCES
MANAGEMENT

C&D WASTE DIVERSION

A minimum C&D waste diversion rate of **89%** was achieved from four major capital projects tracked at LAX, which include:

- North Terminal Improvement Project: **90%**
- Terminal 4 Modernization Program: **91%**
- Terminal 5/ Tom Bradley International Terminal (TBIT) Vertical Cores: **94%**
- Automated People Mover: **89%**

LAX operates its own batch plant, which recycles construction materials on-site to produce concrete and minimize the need for off-site material hauling.

In 2024, LAX Batch Plant operations **increased over 75% from 2023**, reusing construction debris for the North Airfield Exit Taxiway Project.

SINGLE-USE PLASTIC WATER BOTTLE BAN

Since the ban's inception in 2023, LAX has avoided approximately **10 million** single-use plastic water bottles.



Non-plastic water bottles for sale in Terminal 1



Loader at the LAX Batch Plant



High pressure water spray nozzles suppress dust emissions

FOOD DONATION POLICY

In 2024, LAWA tenants **donated over 32 tons** of edible food through LAX's Food Donation Policy, **3x more** than what was donated in 2023.

Edible food donations not only divert organic waste from landfills, they also support local communities in need.



Mandatory pre-operation environmental compliance inspection

LA SANITATION AND ENVIRONMENT DONATION DRIVES

In 2024, LAWA partnered with LA Sanitation and Environment on **six separate donation drives** to collect clothing, non-perishable food, toiletries, toys, condiments and utensils, and blankets and socks to be distributed to those in need in LA.



NOISE MANAGEMENT

LAWA continued to make significant progress in reducing noise impacts in communities surrounding both LAX and VNY. Hundreds of property owners are actively participating in the LAX Residential Sound Insulation (RSI) Program and Noise Portals remain in use. In their fourth year, the LAX Fly Quieter and VNY Quieter Nights programs continue to recognize airlines and aircraft operators for their efforts to operate more quietly.

GOAL 1



Implement the LAX Fly Quieter and VNY Quieter Night programs

GOAL 2



Launch web-based noise portals for LAX and VNY

GOAL 3



Continue the Sound Insulation Grant Program as funds are identified

2024 ACHIEVEMENTS



The LAX Fly Quieter and VNY Quieter Nights programs are in their fourth year



LAX and VNY noise portals are in use and fully functional for public use



The LAX RSI Program successfully completed 288 homes in 2024

Plane taking off on Runway 24L with the backdrop of Downtown Los Angeles

*Status
Indicators*



Making
progress
towards goal



On track to
achieve by
goal date




Goal
achieved and
ongoing



LAX

RSI

The LAX RSI Program supports the soundproofing of homes in the City of El Segundo and City of Los Angeles.




Through 2024, the program mitigated **88 homes** in the City of Los Angeles and City of El Segundo, with 289 in process. Additionally, **288 homes** were soundproofed in the City of Inglewood and Los Angeles County, for a total of **22,441 homes**  completed to date.

In 2024, LAX received a **\$15.8 million grant** from the FAA to support sound insulation treatments in select homes.

FLY QUIETER PROGRAM

LAWA recognized **nine airlines as winners** of the 2024 LAX Fly Quieter Program in three different categories.

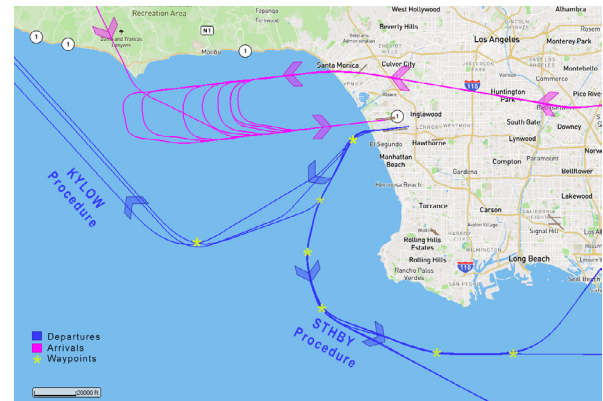
The initiative encourages commercial airlines at LAX to comply with noise abatement programs and procedures as well as implement voluntary measures to reduce LAX's noise footprint.

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

FLIGHT PROCEDURES

In 2024, the STHBY and KYLOW departure procedures were modified following two years of collaboration between LAWA and the FAA. These modifications intend to minimize early turns before the shoreline and reduce noise impacts.

Since implementation, LAWA has observed aircraft flying farther offshore and a noticeable decrease in the number of early turns during nighttime hours.





VNY

QUIETER NIGHTS PROGRAM

The VNY Quieter Nights Program is a voluntary initiative encouraging jet aircraft operators to avoid arrivals and departures between 11 p.m. and 7 a.m.

Operators have **committed to reducing maintenance and repositioning flights during quiet hours.**

	 Nighttime Jets	 Daytime Jets	% of Nighttime vs. Total Jets
2019	4,514	53,759	7.7%
2020	2,797	44,063	6.0%
2021	4,097	65,810	5.9%
2022	4,361	65,192	6.3%
2023	4,521	60,357	7.0%
2024	4,377	58,858	6.9%

VNY FRIENDLY FLYER AWARD WINNERS

In 2024, 26 operators earned the Friendly Flyer Award with **4 first-time winners, and 22 repeat winners.** The program publicly recognizes jet aircraft operators who do an exemplary job following all VNY noise abatement policies and programs.

To learn more about noise issues in your community, please find the LAX & VNY Noise Portal QR codes here:





NATURAL RESOURCES MANAGEMENT

LAWA owns and manages a 300-acre coastal dune system that provides habitat for federally endangered species such as the El Segundo Blue Butterfly. LAWA is committed to preserving biodiversity and restoring this ecosystem. In 2024, LAWA focused on invasive plant removal as the first step in a 50-acre restoration project.

GOAL 1



Restore the natural habitat of the LAX Dunes to support native flora and fauna by:



Striving for the natural addition of native flora and fauna with no net loss of biodiversity



Implementing invasive plant management in El Segundo Blue Butterfly Habitat Restoration Area



Continuing to improve the Coastal Dunes Improvement Project



Continuing weeding and restoration activities

GOAL 2



Secure grants that will benefit the LAX Dunes

2024 ACHIEVEMENTS



Removed over 146,000 pounds of non-native plant species in the Dunes



In 2024, LAWA made significant strides in completing restoration work for a \$500,000 grant from the California Natural Resources Agency received in 2023

View of the Pacific Ocean from
the LAX Coastal Dunes Habitat

*Status
Indicators*



Making
progress
towards goal



On track to
achieve by
goal date



Goal
achieved and
ongoing



LAX

INVASIVE SPECIES REMOVAL

In 2024, crews and volunteers removed approximately 88,000 pounds of acacia along with 58,000 pounds of other invasive and non-native vegetation for a combined

146,000 pounds

removed across the Northern and Southern Dunes. Clearing these weeds is vital to prepare for planting and for the recovery of native ecosystems.

LAX DUNES RESTORATION EVENTS

To support the restoration of the LAX Dunes habitat, in 2024 LAWA hosted

11 events

with a total of

136 volunteers

working

311 hours

COMMUNITY VOLUNTEER DAYS

LAWA has published a public events calendar. More information on upcoming dunes events can be found from the QR code here:



PARTNERSHIP WITH LA ZOO



© Jamie Pham



© Jamie Pham



© Tad Motoyama

In 2024, LAWA's partnership with LA Zoo successfully repurposed **all 88,000 pounds** of non-native Acacia removed 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.

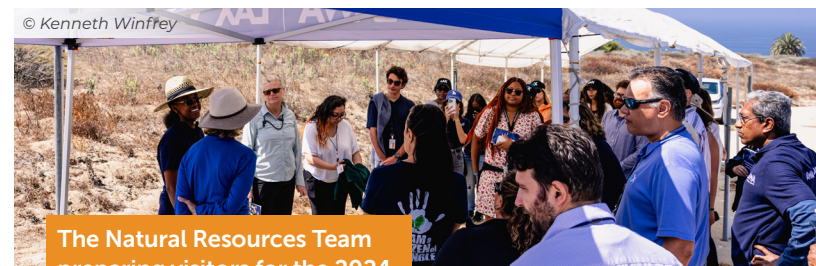
The Marine Blue Butterfly and the Seaciff Buckwheat



© Kenneth Winfrey

NATIVE PLANT INSTALLATION

While restoration was primarily focused on weed removal, LAWA performed some targeted planting work with the assistance of volunteers. 144 Seaciff Buckwheat plants were installed with the support of Delta Airlines volunteers. Seaciff Buckwheat is the sole host plant for the El Segundo Blue Butterfly.



© Kenneth Winfrey

The Natural Resources Team preparing visitors for the 2024 El Segundo Blue Butterfly Tour



CORPORATE RESPONSIBILITY

In 2024, LAWA continued to be a driver of inclusivity requirements in its contracts supporting local, small, and diverse businesses and workforce development in aviation and construction.

GOAL 1



Continue to implement inclusivity requirements in LAWA contracts and monitor compliance

GOAL 2



Develop and expand partnerships to promote a sustainable local workforce

2024 ACHIEVEMENTS



104 active contracts with inclusivity requirements at a total value of more than \$3 billion



Aviation Career Days at LAX and VNY welcomed students from 34 local area schools



Ratification of the Multiple Award Task Order Contract (MATOC) for LAWA's Capital Improvement Program with new inclusivity requirements

Status Indicators



Making progress towards goal



On track to achieve by goal date



Goal achieved and ongoing

Passengers queuing at Tom Bradley International Terminal

LAWA

INCLUSIVITY

IN 2024, LAWA **EXCEEDED** ITS PLEDGED LOCAL BUSINESS ENTERPRISE (LBE) AND DISADVANTAGED BUSINESS ENTERPRISE (DBE) COMMITMENTS.

The **MATOC** for LAWA's Capital Improvement Program broke records for inclusivity requirements and set new standards that are larger and more far-reaching than any previous LAWA contract, totaling:

- **30%** for Small Business Enterprises (SBEs)
- **14%** for LBEs
- **11%** for Local Small Business Enterprises (LSBEs)
- **2%** for Disabled Veteran's Business Enterprises (DVBES)

These categories are collectively know as XBEs.

This MATOC represents nearly **\$1 billion** in contracting value for four large firms, five medium firms, and six small firms. Six of them are first-time prime contractors and two are joint-venture XBE firms that are new to LAWA's pool of qualified vendors.

The award of these 15 firms includes the participation of 230 subconsultants of which 147 are XBE firms and 73 are micro small businesses.

2024 COMMUNITY EVENTS

In 2024,
LAWA Staff...

attended
425
community
meetings

attended
60
community
events

hosted
8
community
relations events

led
62
community
tours

LAX

- On October 16th, 2024, LAWA held its **9th Annual Aviation Career Day** at LAX in partnership with airlines, businesses, and community organizations. Students from over 20 local schools explored careers in aviation and engaged with aviation experts and professionals from more than 40 agencies, including airlines, law enforcement, and construction firms.

Students gathering around aircraft at LAX's Aviation Career Day



VNY

- On October 24, 2024, students were able to see the renowned firefighting Super Scoopers and other aircraft at the **VNY Aviation Career Day**. Attendees received airfield tours for an in-depth look at airport activities.
- In June, VNY hosted the Condor Squadron's "Keep 'em Flying" event. The Condor Squadron works to honor our veterans and preserve aviation history.

VNY's Aviation Career Day Volunteers





LAX

HIRELAX APPRENTICESHIP READINESS PROGRAM

HireLAX is an 8-week program that provides local residents access to a comprehensive construction apprenticeship preparation program.

Since its inception in 2017, the program has supported

591 local residents in starting construction careers, of which **346** of them graduated from the HireLAX program

Graduation of HireLAX Cohort 22



© LAWA

LAXceeders volunteers



© LAWA

GUEST EXPERIENCE

LAWA takes the guest experience very seriously and administers a multitude of programs to ensure a positive experience at LAX. Programs, including iCare, Volunteer Information Professionals (VIPs), and LAXceeders have employees and volunteers support the traveling public in terminals by providing information and guest assistance.

- The iCare program provides frontline, curbside guest assistance at the CTA. In 2024, iCare staff worked **8,261 hours** and provided service to **408,000 passengers**.
- VIPs assist travelers by providing directions, giving information about airport amenities, ground transportation, local accommodations and attractions. In 2024, VIP staff members spent approximately **9,725 hours** in the terminals and served **388,000 travelers**.
- LAXceeders introduces college bound students interested in aviation careers to the airport environment and trains them in guest assistance techniques. In 2024, 14 LAXceeders spent **685 hours** in the terminals serving **17,000 travelers**.

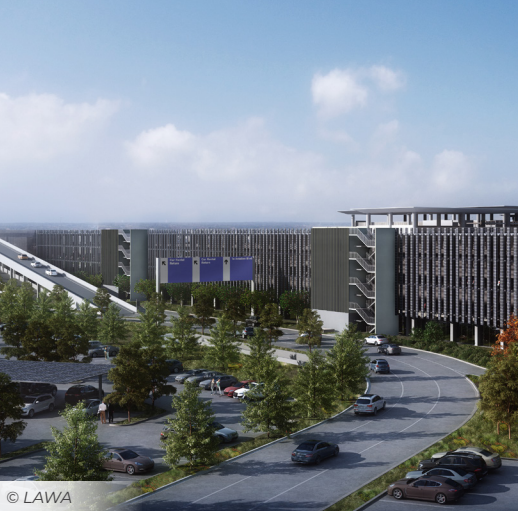


SUSTAINABLE CONSTRUCTION AND GREEN BONDS

At LAWA, sustainability is embedded into the design and construction of major capital improvement projects. From energy-efficient buildings to environmentally responsible infrastructure, LAWA integrates green building standards and innovative financing to drive long-term environmental and operational benefits. Green Bonds partially finance several projects at LAX that conform with International Capital Markets Association Green Bonds Principles.

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 Markets Association Green Bond Principles: Use of Proceeds, Process for Project Evaluation and Selection, Management of Proceeds, and Reporting.

Construction of the Automated
People Mover in the CTA



© LAWA

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

This project consolidates rental car operations to reduce traffic congestion and emissions. The project consists of over 200 EV charging stations with future capacity to exceed 300 and includes efficient lighting, drought-tolerant landscaping, employee amenities and a solar array that will meet 60% of the building's energy demand.

- **Status:** Completed Q1 2024, won't be fully operational until the Automated People Mover (APM) begins operations.
- **Leadership in Energy and Environmental Design (LEED) Certification Status:** Achieved LEED Gold in 2023.

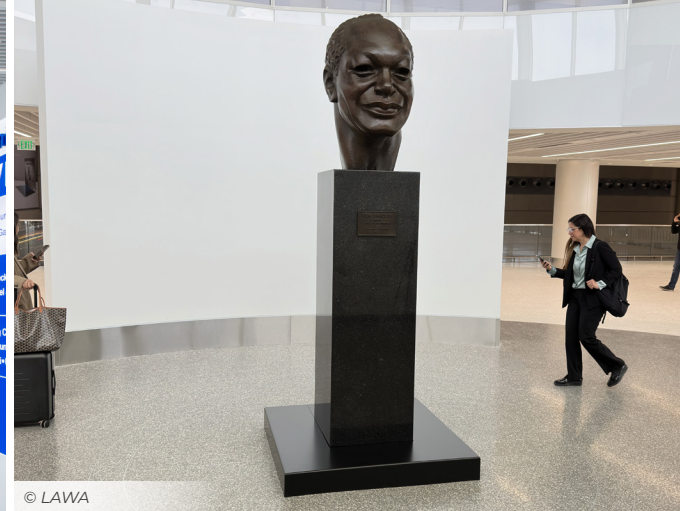


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NORTH TERMINAL IMPROVEMENT PROJECT (2022 SERIES G)

This project includes the replacement and associated improvements of Terminal 3 in partnership with Delta Airlines. It includes a walkway connection to TBIT, access to the APM, new gates, and other passenger amenities. The project includes energy saving technologies incorporated in the escalators, high-efficiency lighting with motion sensors, low-flow water fixtures, and uses 20% recycled content and 20% regional content materials in construction.

- **Status:** Anticipated completion Q1 2025.
- **Energy Performance:** Will improve energy use by 7.4% and reduce costs by 26.3% from the baseline.
- **Waste Diversion:** 90% of construction waste has been diverted to date.
- **LEED Certification Status:** On track for LEED Gold.



© LAWA

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

These projects aim to enhance mobility and connectivity between terminals with the APM. These projects include implementation of energy efficient designs, sustainable building materials, energy metering, low-flow fixtures, and consist of 40+ LEED Environmental Product Declarations (EPDs) and 20+ LEED Material Ingredient Products.

- **Status:** T5.5- Completed Q3 2023; TBIT- Completed in Q2 of 2024.
- **Energy Performance:** T5.5- 8.5% energy reduction and 8.5% energy cost savings from baselines. TBIT- 7.8% energy reduction and 7.8% energy cost savings from baseline.
- **Waste Diversion:** More than 93.7% of construction waste diverted to date.
- **LEED Certification Status:** T5.5- On track for LEED Silver; TBIT- On track for LEED Silver.



AUTOMATED PEOPLE MOVER (2022 SERIES I)

A component of LAX's Landside Access Modernization Program (LAMP), this fully electric train system provides connectivity to regional public transit, the Consolidated Rent-A-Car Facility, and the CTA.

- **Status:** Anticipated completion Q2 2026.
- **Energy Performance:** On-site PV array will supply just under 44% of the APM's operational needs.
- **Waste Diversion:** 89% construction waste diversion.
- **LEED Certification Status:** Maintenance and Storage Facility achieved LEED Platinum in 2024. APM achieved Envision Gold in 2022.



TERMINAL 4 MODERNIZATION PROGRAM (2022 SERIES G)

This project consists of activities within Terminal 4 and includes the consolidation of 30 gates to improve passenger mobility, a new connection to Terminal 5, and connections to the APM, offices, central areas for ticketing, security, and baggage claim. This project will reduce indoor water use and utilize the purchase of renewable energy credits.

- **Status:** T4- Anticipated completion Q1 of 2028; T4.5- Completed Q4 2022.
- **Energy Performance:**
 - T4- Anticipated to reduce energy use intensity (EUI) by 7.6% and energy cost savings 13.7% over baseline conditions.
 - T4.5- Heat Island Reduction benefits were achieved through specialized roughing and advanced energy meters were installed.
- **Water Savings:**
 - T4- Anticipated to reduce indoor water use 42.3% when compared to baseline by installing low-flow fixtures. Once reclaimed water is activated, indoor potable water use will be reduced 75.5% from the baseline.
 - T4.5- Indoor water use will be reduced 41.1% from baseline by installing low-flow fixtures.
- **Waste Diversion:**
 - T4- Waste diversion is tracking at 91%.
 - T4.5- Final waste diversion was 91.9%.
- **LEED Certification Status:**
 - T4- On track for LEED Gold.
 - T4.5- Achieved LEED Gold in 2023.



SUSTAINABILITY REPORT 2024

Front and back cover
photos courtesy of:
*Brandon Tseng,
LAWA Operations*