

BOSTON LOGAN INTERNATIONAL AIRPORT

2023/2024 EDR

ENVIRONMENTAL DATA REPORT



SUBMITTED TO

Executive Office of Energy
and Environmental Affairs,
MEPA Office

PREPARED BY



SUBMITTED BY



Massachusetts Port Authority
Office of Climate Innovation
and Resilience

IN ASSOCIATION WITH

Harris Miller Miller & Hanson
Crawford, Murphy & Tilly
ICF
InterVISTAS Consulting

October
2025

EEA #3247



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October 15th, 2025

The Honorable Rebecca Tepper, Secretary
Executive Office of Energy and Environmental Affairs
Attn: MEPA Analyst, EEA
100 Cambridge Street, Suite 900
Boston, Massachusetts 02114

Re: Boston Logan International Airport 2023/2024 Environmental Data Report - EEA #3247

Dear Secretary Tepper and Director Kim:

On behalf of the Massachusetts Port Authority (Massport or the Authority), we are pleased to submit this *2023/2024 Environmental Data Report (2023/2024 EDR)* for Boston Logan International Airport (Logan Airport or the Airport). For over four decades, Massport's Environmental Data Report (EDR) filings have continued to provide an extensive record of Logan Airport's environmental trends, facility planning, operations, passenger use, and project mitigation commitments. This EDR focuses on the Airport's operational and environmental conditions over the 2023 and 2024 reporting years in the context of relevant recent and historical trends.

EDRs report on Airport conditions annually for the years between the Environmental Status and Planning Reports (ESPRs), which Massport files every five years. The ESPR and EDR series are critical for providing current and historical context for evaluating individual projects at Logan Airport that meet state environmental review thresholds, as well as for understanding the cumulative environmental effects of the Airport's operations and activities. The Logan Airport EDRs and ESPRs are unique within the Massachusetts Environmental Policy Act (MEPA) process. Unlike other filings within the typical MEPA framework, EDRs and ESPRs are distinctly not "Projects". These documents do not replace any individual project filings subject to MEPA, nor do they serve as an authorization for any specific activity.

Key Findings from the 2023/2024 EDR

In 2023 and 2024, passenger activity and aircraft operations increased at Logan Airport, and in 2024, air passengers exceeded pre-pandemic levels by 2 percent. Logan Airport continues to be an integral part of the regional transportation system, accommodating over 70 percent of New England air passengers, while supporting connectivity with other regional airports, rail and port facilities, and ground transportation networks. Passenger activity and aircraft operations are discussed in Chapter 3, *Activity Levels*, while Logan Airport's interrelationship with regional transportation networks is addressed in Chapter 5, *Regional Transportation*.

As passenger activity at Logan Airport increases, Massport has initiated and progressed several projects to meet the needs of the growing market, upgrade aging infrastructure, improve Airport safety and efficiency, and reduce environmental effects. The status of these new, on-going, and recently completed programs and projects from 2023 and 2024 is provided in Chapter 4, *Airport Planning*, while Chapter 10, *Project Mitigation*, details MEPA mitigation commitments associated with applicable projects.

Massport is committed to reducing the Airport's air quality impacts, and reports air quality metrics with the status of air quality improvement initiatives in Chapter 8, *Air Quality*. In 2023 and 2024, Massport continued emissions reducing initiatives like promoting high-occupancy vehicle (HOV) use; expanding its electric vehicle (EV) fleet; investing in electric charging infrastructure; and supporting tenants, ground transportation services, and fixed base operators (FBOs) with converting fossil fuel burning equipment and vehicles to electricity powered models, including electric ground service equipment (eGSE). To further address Airport-wide emissions from idling vehicles, Massport is conducting additional studies of vehicle dwell time at curbside areas

for each terminal. Data collection resumed in 2025 and will continue over the coming years to collect data at each terminal curbside.

In addition to air quality improvements, Massport has also continued to advance programs to abate and mitigate aviation noise, including successfully restarting its Residential Sound Insulation Program (RSIP) in 2023 to mitigate aircraft noise effects by installing sound insulation in eligible homes near Logan Airport. The goals and timeline of the RSIP are detailed in Chapter 7, *Noise*, but the RSIP's implementation progressed through 2024, and construction on a pilot group of homes began in 2025.

Massport also demonstrated a commitment to environmental sustainability and climate resiliency in 2023 and 2024 through Airport-wide, proactive initiatives and programs to reduce greenhouse gas (GHG) emissions, mitigate climate risks, and achieve Net Zero emissions from activities under Massport's control by 2031, as outlined in *Massport's Roadmap to Net Zero by 2031* (Roadmap to Net Zero). As an active participant in advancing Sustainable Aviation Fuel (SAF) development and use, Massport continued its support and involvement with the Massachusetts Institute of Technology's (MIT) Zero Impact Aviation Alliance (ZIAA) and the Massachusetts SAF Working Group. Massport also supports other air emissions-related research in collaboration with local universities, and considers mitigation measures in response to these research findings in collaboration with MEPA's Logan Airport Work Group.

Massport continuously evaluates ground transportation access strategies and implements measures to reduce vehicle congestion, emissions, and community impacts, and the outcomes of these efforts for 2023 and 2024 are reported in Chapter 6, *Ground Access*. Logan Airport continues to be a leading U.S. airport in promoting HOV usage. Based on the *2024 Logan Air Passenger Ground Access Survey* results, HOV mode share has reached 43 percent. Massport promotes HOV use through improving Logan Express service and station facilities, offsetting operating costs for SL1 Massachusetts Bay Transportation Authority (MBTA) Silver Line buses, and implementing its Ride App Management Plan. In 2023 and 2024, Massport continued to implement strategies set forth in the *Long-term Parking Management Plan*, which guides on-Airport parking strategies and policies to promote long-term parking over short-term, by progressing planning and design on two new on-Airport parking areas.

In response to the Secretary's Certificate on the *2022 ESDR*, public comment letters, and Massport's on-going engagement with stakeholders and MEPA, Massport has created a new chapter for *the 2023/2024 EDR* to distinguish Massport's outreach and environmental justice (EJ) efforts from its on-going sustainability, resiliency, and Net Zero programs. In this EDR, the *2022 ESDR* content previously contained in Chapter 2, Outreach, Environmental Justice, and Sustainability was reorganized into two distinct chapters: Chapter 2, *Outreach and Environmental Justice*, and Chapter 11, *Sustainability and Climate Resilience*.

EDR Content and Structure

The *2023/2024 EDR* responds to the Secretary's Certificate on the *Boston Logan International Airport 2022 ESDR* dated October 18th, 2024. The EDR provides updates from 2023 and 2024 for the following topics:

- Passenger activity levels, aircraft operations, aircraft fleet composition, and cargo volumes;
- Planning, design, and construction activities and the status of project mitigation commitments at the Airport;
- Community outreach and environmental justice considerations;
- Regional transportation statistics and initiatives;
- Key environmental indicators (Ground Access, Noise, Air Quality, Water Quality, and Environmental Compliance Management); and
- Logan Airport's sustainability, climate resilience, and Net Zero initiatives.



Alex Geourntas <alex.geourntas@boston.gov>

[City Clerk email] EEA #3247 - Boston Logan International Airport 2023/2024 Environmental Data Report

1 message

'Kate Lindekugel' via City Clerk <cityclerk@boston.gov>

Wed, Oct 15, 2025 at 4:54 PM

Reply-To: Kate Lindekugel <klindekugel@vhub.com>

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Cc: "Washburn, Bradford" <bwashburn@massport.com>

Good afternoon –

The Massachusetts Port Authority (Massport) is pleased to submit the *2023/2024 Environmental Data Report (2023/2024 EDR)* for Boston Logan International Airport (Logan Airport) to the MEPA Office. The 2023/2024 EDR presents the status of planning activities and environmental conditions in 2023 and 2024 at Logan Airport. The 2023/2024 EDR continues Massport's practice of annual environmental and operational reporting and provides crucial context for assessing both individual and cumulative environmental conditions from operations and activities at Logan Airport.

The 2023/2024 EDR has been posted on Massport's new EDR and ESPR website: <https://www.massport.com/environment/boston-logan-edr-espr-data-portal>

A direct link to the document can be found here: https://www.massport.com/sites/default/files/2025-10/2023-2024_EDR_Web-Version_v4.pdf

For easy reviewing, it is recommended that you download the PDF file and view it from your desktop. When open in Adobe Acrobat, use the 'Bookmarks' option (the  symbol) on the left-hand tool bar to go to specific points of interest in the document. Massport has also developed a new User's Guide for the EDRs and ESPRs. This document aims to provide additional background and context on the regulatory framework, methodology, and analysis within the EDRs and ESPRs. The EDR and ESPR User's Guide can be found, along with other resources, on the EDR and ESPR landing page.

Notices of availability and hard copies will be mailed to those identified on the distribution list prior to the publication of the *Environmental Monitor*. Hard copies will also be mailed to local libraries identified on the distribution list and will also be available to reviewers upon request.

In addition, the Introduction and Executive Summary of the *2023/2024 EDR* has been translated into Spanish, Haitian Creole, Simplified Chinese, and Portuguese.

These translated versions can also be found on the EDR and ESPR website.

For additional translations, please contact community@massport.com.

Massport respectfully requests that notice of availability of the 2023/2024 EDR be published in the October 22, 2025, edition of the *Environmental Monitor*. Massport also requests the MEPA Office's consideration of an extended comment period so that all agency/public comments are due to the MEPA Office by **January 9, 2026**. A hybrid public consultation session on the 2023/2024 EDR will be held on November 5th, with meeting details posted in the Environmental Monitor and on Massport's website.

For questions on this filing, please contact Brad Washburn bwashburn@massport.com

Thank You



Kate Lindekugel

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Corporate Aviation Sub-Market Leader



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