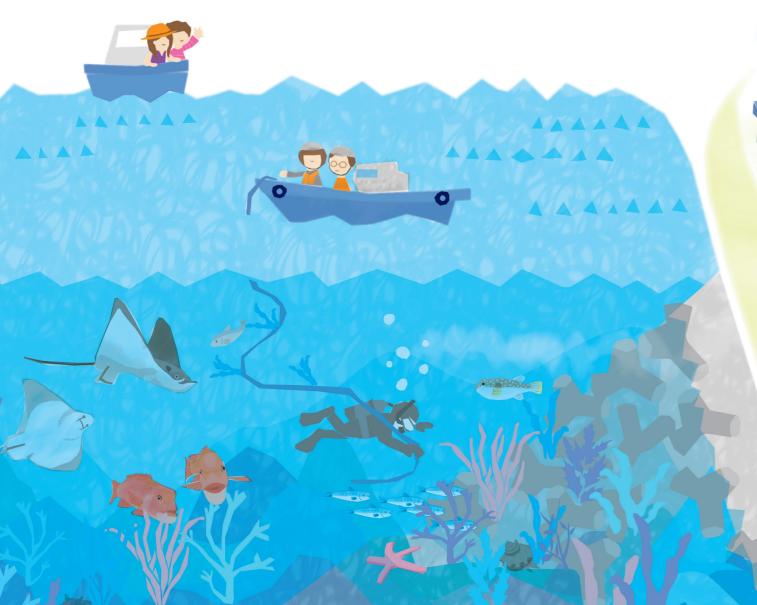
Kansai International Airport, Osaka Itami Airport, Kobe Airport

Environmental Report







Company Profile

Name	Kansai Airports
Date of incorporation	December 1, 2015
Location	1-banchi, Senshu-Kuko Kita, Izumisano-shi, Osaka 549-8501, Japan
Company representatives	Yoshiyuki YAMAYA Representative Director CEO Benoit RULLEAU Representative Director Co-CEO
Business scope	 Operation and management services, etc. of Kansai International Airport and Osaka Itami Airport Operation of Kobe Airport by Kansai Airports Kobe
Capital	25 billion yen
Shareholders	ORIX Corporation 40% VINCI Airports 40% Other investors 20%

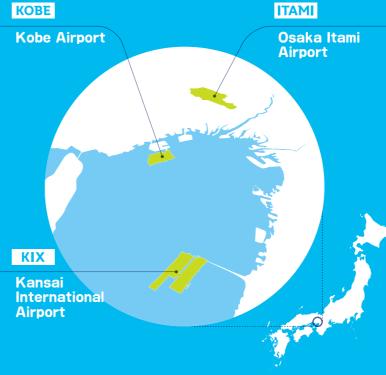
- st On April 1, 2018, Kansai Airports Kobe commenced its business as an operator of Kobe Airport (KOBE).
- Kansai Airports Website:https://www.kansai-airports.co.jp/



Passenger traffic Landings / takeoffs 3.61 M people 33,000 times



Passenger traffic Landings / takeoffs 31.80 M people 199,000 times



* Figures for passenger traffic and landing/takeoffs are based on FY2023 result



Passenger traffic Landings / takeoffs 15.45 M people 137,000 times

Group Companies

- Nansai Airports Nobe
 https://www.kansai-airports.co.jp/company-profile/about-us/kobe
- Kansai Airports Retail & Services https://rs.kansai-airports.co.jp/
- Kansai Airports Operation Services https://www.ops.kansai-airports.co.jp/
- Kansai Airports Technical Services
 http://www.tech.kansai-airports.co.in.
- CKTS Co., Ltd.
 https://www.ckts.
- World Air Passenger Service Co
- https://www.waps.co.jp
- KIA Heating & Cooling Supply Co., Ltd https://www.kiahc.co.jp/

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Editorial Policy

Purpose of this report

This report is published to convey to stakeholders in an easy-to-understand manner initiatives, including data, for reducing environmental impacts being carried out by Kansai International Airport, Osaka Itami Airport and Kobe Airport to help realize sustainable society, which are managed by Kansai Airports.

Reporting boundary

This report focuses on the activities of Kansai Airports and also covers the activities of certain Group companies and businesses operating at the airports its manages.

■ Reporting period

Activities carried out up to the end of September 2025, focusing mainly on FY2024 (April 2024 to March 2025).

Contents



Shaping a New Journey

Kansai Airports Group Environmental Policy

Environmental Philosophy

We, Kansai Airports Group, recognize the importance of solving environmental problems on a global scale and contribute to the realization of a sustainable society through the operation of airports, which are public infrastructure.

Basic Environmental Policy

- · Each employee of the group will diligently preserve the global environment in their daily work.
- We will clarify the environmental impact of our business activities, set goals to reduce it, and take proactive measures.
- · We will regularly check on the progress of initiatives and work to improve the content.
- We will play a pioneering role in the airport field. Furthermore, we will contribute to reducing the environmental burden by overall airports, including the aviation sector.
- · We will communicate with all stakeholders involved in airports and communities.

Based on the "Environmental Philosophy" and the "Basic Environmental Policy", we have set the targets for FY2030 to realize our long-term vision with three pillars.

Decarbonization

- By FY2050, we will achieve net zero greenhouse gas emissions in business activities of Kansai Airports Group.
- As well as promoting energy conservation including operational optimization, we propel decarbonization by using renewable energy and hydrogen to contribute to a decarbonized society.

Circular economy

 We aim to become a Zero Waste Airport by FY2050. In addition to further reducing, sorting and recycling combustible waste, we will further reduce the amount of single-use plastic and work on conversion of materials and closed-loop recycling to contribute to a circular society.

Environmental symbiosis

- We ensure a healthy living environment around the airports and aim to realize symbiosis with nature.
- We continue to monitor aircraft noise and surrounding environment. We also use
 water resources efficiently through utilization of grey water and enhanced water
 conservation operations and conserve biodiversity to contribute to an environmentally
 symbiotic society that is in harmony with nature and local communities.

Environmental Goals (Target: FY2030)

- Decarbonization
- $\boldsymbol{\cdot}$ Reduce greenhouse gas emissions by Kansai Airports Group by 50% from the FY2016 level
- Circular economy
- Not to increase the amount of incinerated waste of the entire airports from the FY2016 level
- Reduce the amount of single-use plastic by Kansai Airports Group by 30% from the FY2016 level
- Environmental symbiosis
- · Continue appropriate and steady monitoring of noise and the surrounding environment
- Not to increase the total water use of the entire airports from the FY2016 level
- $\boldsymbol{\cdot}$ Reduce the clean water use by Kansai Airports Group by 15% from the FY2016 level
- Conservation of biodiversity

以各住之

Yoshiyuki YAMAYA Representative Director CEO



Benoit RULLEAU

Representative Director Co-CEO

Kansai Airports Group's Environmental Promotion System

Kansai Airports Group has established an environmental promotion system to promote group-wide environmental activities under the Group Environmental Promotion Committee (chaired by the CEO and Co-CEO), which consists of the heads of divisions and group companies.



Group Environmental Promotion Committee

We have established the Group Environmental Promotion Committees to monitor the progress of action plans formulated and implemented by divisions and group companies. In FY2024, the Committees convened twice, in September 2024 and February 2025, to share updates on the targets set in February 2024 and discuss progress and challenges arising from the action plans. Through these Committees, we implement the PDCA cycle to work toward achieving our Environmental Goals 2030.



Energy Conservation Committee

The Energy Conservation Committee examines measures to optimize energy use and promote decarbonization at the airport. Meeting twice a year, the Committee shares current issues and discusses the approach for uncoming initiatives

Environmental Steering Committee (STC)

STC addresses cross-divisional themes by reviewing policies and activities to be implemented across divisions and group companies. Held twice a year, the STC reviews progress, shares challenges, and advances initiatives accordingly.

Airport Environmental Promotion Council

At the Airport Environmental Promotion Council, we collaborate with airport-related businesses to share progress on initiatives aimed at reducing environmental impacts, such as waste reduction, recycling, and water conservation.

Airport Decarbonization Promotion Council

The Airport Decarbonization Promotion Council was established by airport provider*to promote decarbonization at airports. Each airport decarbonization promotion plan formulated by the Council has been recognized by the Minister of Land, Infrastructure, Transport and Tourism.

* KIX and ITAMI: New Kansai International Airport Co., Ltd. / KOBE: Kobe City

Utilization of environmental certification systems

Acquired Airport Carbon Accreditation (ACA)

At the Kansai Airports Group, we implement environmental management by leveraging third-party environmental certification systems. Since FY2016, we have obtained Airport Carbon Accreditation (ACA). In November 2021, all three airports achieved Level 4, which has been maintained and updated since then. Going forward, we will continue to rigorously track performance toward the long-term goal of net-zero greenhouse gas emissions by 2050. This includes managing and reducing CO₂ emissions – Scope 3 included – in collaboration with airport-related businesses.

[Outline of each level]

Level 5



Of Scopes 1 and 2, more than 90% is reduced by its own efforts, and the remainder is offset. For Scope 3, a roadmap toward net zero is developed.

Environmental Standards Regulations.



Level 4+ (Transition)

Conforming to the Level 4 requirement to offset CO₂ emitted by airport businesses.



Level 4 (Transformation)

To reduce overall CO2 emissions, transform airport operations and consolidate the involvement of airport-related businesses.



Level 3+ (Neutrality)
Conforming to the Level 3 requirement to offset CO₂ emitted by airport businesses.



Reducing CO₂ emissions, some of which come from airport-related businesses.



Implementing carbon management to reduce the CO₂ emitted by airport businesses.



Level 1 (Mapping)
Calculation of CO₂ emitted by airport businesses.



3 O 4

Addressing Environmental Impact at **Airports**

Causal relations between our operations at airports and environmental impact

CO₂ emissions

- Airport facilities
 Airport vehicles
- Aircrafts

Reduce GHG Emissions

[Efforts]

- Promote energy conservation
- Utilize renewable energy and hydrogen
- Promote zero-emission vehicles (ZEVs)

• Reduce CO₂ emissions around the aircrafts

The environmental impacts of airport activities are many and varied, and measures must be taken by each activity to reduce their impact.

At Kansai Airports, we have clarified our environmental loads and issues to set various targets and examine our approach.

By regularly confirming and evaluating the progress of activity and striving to improve our initiatives and address new challenges, we are proceeding proactively with our activities to reduce the environmental impact.



Impact on living environment

· Aircraft noise · Air and Water

Environmental monitoring

- Measure, monitor and take measures for aircraft noise
- Treat general wastewater Control exhaust gas from
- waste incineration



Water use

· Use of clean water and reclaimed water in airports

Reduce clean water consumption

[Efforts]

- Utilize rainwater and
- Water conservation operation



- · Marine environment
- · Airport greening

Biodiversity conservation

- Seaweed environment
- Rooftop greening





Waste generation

· General waste · Industrial waste

Waste reduction

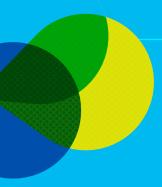
[Efforts]

CO₂

- Reduce, sort and recycle waste
- Reduce single-use plastics







Kansai Airports Group

Working as One Team to Develop a Sustainable Airport

The Kansai Airports Group consists of eight companies engaged in a wide range of airport-related businesses. While each company operates in a different field, we share a common awareness of the pressing environmental issues we face, as well as a shared vision of the future and environmental goals to achieve. United as one group, we are working together to reduce our environmental impact.

This section introduces the initiatives of each company within the Kansai Airports Group aimed at reducing environmental impacts.

Kansai Airports Retail & Services (KRS)

KRS operates retail and service businesses at the three airports, including retail shops, currency exchange, and lounges.

At retail shops, we continue our efforts to reduce the use of vinyl shopping bags. In lounges, KRS promotes reducing plastic containers and using environmentally friendly products, achieving Eco Mark certification – the first case for an airport lounge. The lounges focus on providing services that balance customer comfort and environmental consideration.





CKTS Co., Ltd.(CKTS)

CKTS plays a vital role in supporting the safe and efficient operation of aircraft, providing a wide range of ground-handling services including passenger assistance, baggage and cargo handling, and aircraft marshalling.

To balance reduced CO₂ emissions with operational efficiency, the company has introduced remote-controlled electric pushback vehicles and fuel-cell forklifts (FCFLs) into its fleet. In addition, CKTS is working to reduce industrial waste generated through cargo handling, striving to realize environmentally friendly and innovative ground-handling operations.





Introduction of fuel cel forklifts (p.20)

Kansai Airports Operation Services (KOS)

As a core entity ensuring safety and security within the Kansai Airports Group, KOS manages and integrates airport operation information, conducts patrols and responds to emergencies on site, provides information services in terminal buildings, and maintains a safe and comfortable environment through cleaning services.

In its fire prevention operations – essential for preparing for potential accidents and disasters at the airport – KOS has switched the water used in daily firefighting drills to reclaimed water. Even in the airport's uniquely specialized operations, KOS strives to balance customer safety with reducing environmental impact throu gh innovative approaches.





Use of reclaimed water for firefighting (p.30)

Kansai Airports Group × Environment

Shaping a New Journey



Exploring What We Can Do in Each Area and Acting as One Group

World Air Passenger Service Co., Ltd. (WAPS)

WAPS provides passenger handling services, dispatches staff to duty-free shops and lounges, and operates the Osaka Airterminal Hotel.

In hotel operations, WAPS works to reduce environmental impacts by upgrading to LED lighting, installing water-saving showers, and introducing amenities made from biomass or easily recyclable materials – all while ensuring a comfortable stay for customers. WAPS also encourages guests to sort waste, working together toward a more sustainable hotel experience.





Guest Room bathroom

Kansai Airports Technical Services (KTS)

KTS is responsible for maintaining and managing civil engineering/building facilities and electrical/mechanical equipment at the airports, as well as providing data processing services.

Leveraging its technological expertise and experience gained through extensive operations – including facility inspections, repairs, and equipment upgrades – KTS not only improves energy efficiency but also enhances operations and renovates systems with attention to water reuse and waste reduction. Recently, KTS has worked to reduce waste management impacts by controlling the spread of weeds and minimizing grass clippings at the airports.





Reduction of waste through drying of grass clippings (p.24)

Kansai Airports Kobe(KAPK)

KAPK is responsible for the operation and maintenance of KOBE.

The company is advancing initiatives to reduce environmental impact, including converting airport lighting to LEDs in cooperation with tenants in the airport and conducting pilot projects for solar power generation in collaboration with Kobe City, the airport provider. In the terminal building, KAPK has also created green spaces and scenic areas, making the airport an enjoyable destination even for those not flying. In April 2025, a new international terminal building began operation, marking another step forward as an airport that continues to evolve together with the local community.





rooftop observation deck (p.34)

KIA Heating & Cooling Supply Co., Ltd. (KHC)

KHC operates a district heating and cooling service that centrally produces and supplies thermal energy – such as air conditioning and hot water – for a variety of buildings at KIX, including passenger terminals, cargo facilities, and hotels.

Through technical innovations, KHC promotes the efficient use of energy, driving energy conservation not only within the Kansai Airports Group but across the entire airport. The company is also working to reduce water use in the thermal energy production process, thereby reducing environmental impacts from both energy and water resource perspectives.



KHC Heat supply plar



Improvement of efficiency in thermal energy equipment (p.17)



Kansai Airports Group

Environmental Vision 2050 and Environmental Goals 2030

Kansai Airports Group has initiated various efforts to reduce the environmental impact at the three airports it operates (KIX, ITAMI, KOBE). As global environmental issues, including decarbonization, have become a common social awareness that urgently needs to be addressed, it is also Kansai Airgateways of Asia and Kansai region, connect to the rest of the world while playing an important role in the regional transportation infrastructure.

Given this background, in April 2023, we launched our new environmental plans, "Environmental Vision 2050" and "Environmental Goals 2030." To take over and further develop the One Eco-Airport Plan (2016 to 2022) and previous initiatives, we have set the long-term vision toward 2050 and specific milestone targets for 2030.

Three pillars and the activities

Climate change on a global scale, resource depletion due to economic activities of mass production, mass consumption and mass disposal, destruction of biodiversity caused by large-scale resource extraction, and other issues have become apparent.

These issues are interrelated and complex and need to be addressed through a multifaceted approach to contribute to the integrated environmental, economic and social improvement.

With the three pillars of "Decarbonization," "Circular Economy" and "Environmental Symbiosis" to address these issues, Kansai Airports Group has been promoting all activities of climate change measures (Decarbonization), sustainable resource use (Circular Economy) and harmonious symbiosis between nature and humans (Environmental Symbiosis) in a comprehensive manner.

















Incinerated waste Not to increase the amount

Incinerated waste of the entire airports not to increase the amount from the FY2016 level

Single-use plastics

30% reduction

Greenhouse gas emissions

50% reduction Greenhouse gas emissions

by Kansai Airports Group from the FY2016 level

The amount of single-use plastic by Kansai Airports Group from the FY2016 level

Monitor the Local Environment

Continue

Continue appropriate and steady monitoring of the surrounding environment

Total water use

Not to increase

Total water use of the entire airports not to increase from the FY2016 level

Biodiversity

Conservation

Greenhouse gas emissions

Net Zero

- Net zero greenhouse gas emissions in
- Contribution to the reduction of green including airport-related businesses

Environmental Vision

2050

Realization of a sustainable society

Zero Waste Airport

- Thorough reduction, sorting and recycling
- Recycling rate: 100%

Clean water use

15% reduction

Clean water use by Kansai

Airports Group from the

FY2016 level

Ensuring a healthy living environment around the airports

■ Monitoring aircraft noise and the surrounding

Symbiosis with nature

- Efficient use of water resources
- Contributing to ensuring a healthy ecosystem

Initiatives under the One Eco-Airport Plan and SDGs

SUSTAINABLE GOALS











Our new environmental plans, the "Environmental Vision 2050" and "Environmental Goals 2030," were formulated to help address environmental issues in collaboration with local communities and society whereby the three airports collectively promote various initiatives. Amid growing efforts to achieve the Sustainable Development Goals (SDGs) for addressing issues in the environmental, economic and social spheres in a global scale. issues in the environmental, economic and social spheres in a global scale, efforts to build a sustainable society are becoming even more important at Kansai Airports Group. Taking these global goals into account, we are deliberating on our policies of various activities.

We, at Kansai Airports Group, will keep striving to help achieve a sound global environment and sustainable society





Roadmap

for achieving the Environmental Goals 2030 and Environmental Vision 2050

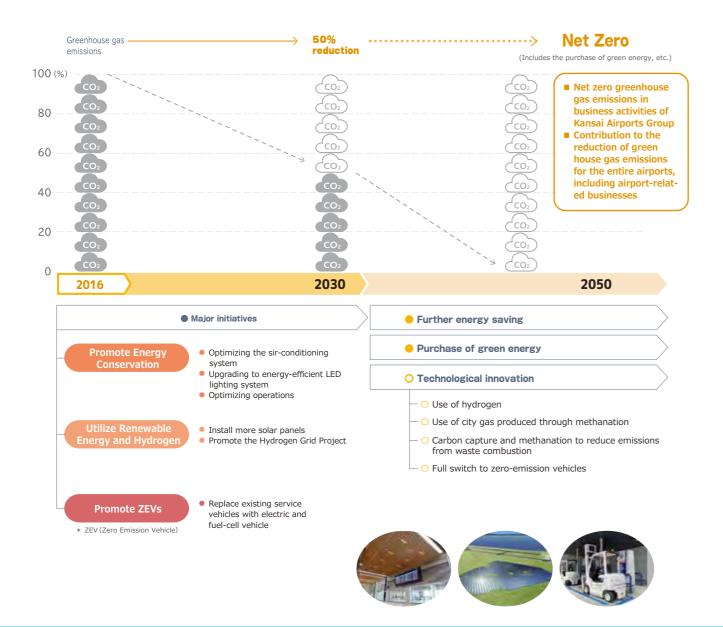


Decarbonization

Net zero greenhouse gas emissions

We set a long-term goal to achieve net zero greenhouse gas emissions in business activities by FY2050.

At Kansai Airports Group, various steps have been taken to reduce the environmental footprint of the three airports it operates. We will continue to work on a medium- to long-term plan and promote the measures for achieving zero net greenhouse gas emission by further reducing energy consumption and using renewable energy.



11



To become Zero Waste Airport

We aim to become a Zero Waste Airport with a 100% recycling rate by 2050 through thorough waste reduction, sorting and recycling.

As well as steadily continuing efforts to achieve the mid-term goal in 2030, new recycling methods will also be considered.

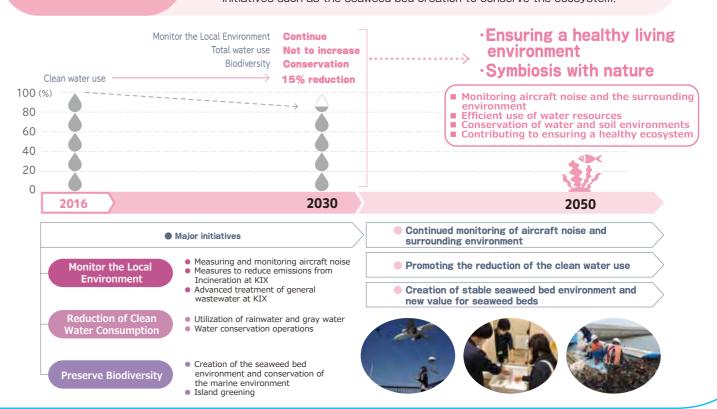




Ensuring a healthy living environment around the airports / symbiosis with nature

We promote our initiatives to realize "harmony with the vicinity" and "symbiosis with nature."

Quantitative reduction targets have been set for total water use by 2030. In addition, we will sincerely address all aspects of the environment around the airports to continue to monitor the surrounding environment and promote initiatives such as the seaweed bed creation to conserve the ecosystem.





Initiatives Highlight

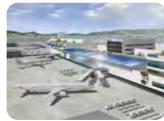


"Sora × Solar®," the largest solar power generation facility in Japanese airports, begins supplying electricity!

In February 2025, the newly installed solar power facilities "Sora \times Solar®" at KIX and ITAMI began generating electricity and supplying power to terminal buildings and other airport facilities.

This project adopts an on-site Power Purchase Agreement (PPA) scheme*, with 39,740 solar panels installed at KIX and 960 panels at ITAMI. The facilities are expected to achieve the largest power generation capacity among Japanese airports and represent a key initiative for the Kansai Airports Group in achieving its greenhouse gas emissions reduction targets.





ITAN

* The PPA is a business scheme whereby a power generator installs solar power generation facilities on the premises of a customer (electricity user) at the power producer's expense, and then supplies electricity generated by the facilities to that customer.



Hydrogen-powered fuel-cell (FC) bus introduced and begins operation!



In February 2025, in collaboration with Kishiwada Kanko Bus Co., Ltd., we introduced a fuel-cell (FC) minibus powered by hydrogen. This bus uses electricity generated from the chemical reaction between hydrogen and oxygen, producing no CO_2 or other environmental pollutants during operation.

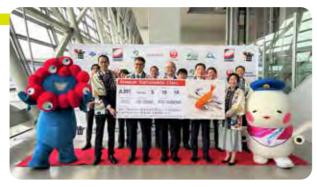
The newly introduced bus is the first FC minibus in the Kansai region capable of operating on highways. It is used not only for airport tours but also for sightseeing tours in the local Senshu area and for other regional events.



Domestic SAF (Sustainable Aviation Fuel) supplied to passenger flights at Kansai International Airport for the first time!

In May 2025, supply of domestically produced SAF to aircraft commenced at KIX, using mass production facilities at the Cosmo Oil Sakai Refinery (Sakai City, Osaka Prefecture). The first flight to receive domestic SAF was JAL891 bound for Shanghai (Pudong) aboard the JAL "Myaku-Myaku" Jet, with a commemorative ceremony and send-off by related parties held on the day.

The Kansai Airports Group will continue to work closely with stakeholders to accelerate decarbonization in the aviation industry, raising awareness of SAF, encouraging the provision of used cooking oil as feedstock, and contributing to the expanded use of SAF.



 SAF (Sustainable Aviation Fuel): Sustainable aviation fuel made from used cooking oil and other waste oils from households and restaurants.

Features

Collaboration with Expo 2025 Osaka, Kansai, Japan

The Expo is an event that brings together people and resources from around the world and serves as an opportunity to address global challenges. The Expo 2025, under the theme "Designing Future Society for Our Lives," showcases the achievement of the SDGs and envisions a sustainable future beyond them. The Kansai Airports Group is also collaborating with the Expo on various initiatives, focusing on environmental efforts that are essential for the airports of the future.

Airport development for the Expo 2025, Osaka, Kansai, Japan

At KIX, a major renovation - the first since the airport's opening - has been underway since 2021, culminating in a grand reopening in March 2025. The immigration inspection area and international lounges have been completely upgraded, preparing to welcome many visitors as the "First Pavilion" for the Osaka-Kansai Expo. During the renovation, efforts were also made to reduce environmental impact, including the reuse of existing buildings and energy-conservation measures such as energy-efficient air conditioning. In addition, an environmental PR booth has been set up on the international arrivals floor to provide information in a new and engaging way.

KIX renovation work



Renovation redesigned to expand capacity, enhance facilities, and improve the passenger experience, with consideration for the environment.

Environmental PR booth



Introduction to initiatives unique to an offshore airport, as well as SAF and hydrogen, which are essential for the airports of future societies.

Exhibitions and Presentations at the Expo Venue

Hannan City × Kansai Airports: Showcasing marine initiatives

at the Osaka Healthcare Pavilion Reborn Stage

On April 28 and May 10, 2025, at the Hannar Hitotsunagi EXPO held at the Osaka Healthcare Pavilion Reborn Stage, we jointly exhibited and presented the Osaka Bay Sea Forest (Seaweed Bed) Conservation and Restoration Project undertaken in collaboration with Hannan City At the venue, visitors were able to experience the richness and importance of Osaka Bay's marine environment through VR underwate footage and aquarium displays recreating the seas around Hannan City and Kansai Airport.



Participation in "Nature-Positive and Nationally Certified Sustainably Managed Natural Sies in Osaka Bay"

at BLUE OCEAN DOME

On April 28, 2025, we participated in "Nature-Positive and Nationally Certified Sustainably Managed Natural Sies in Osaka Bay," held at BLUE OCEAN DOME and jointly organized by ZERI JAPAN and the Kinki Regional Environmental Office of the Ministry of the Environment.

This provided an excellent opportunity to share the Kansai Airports Group's initiatives for conserving marine environment with a wide audience, learn from other organizations' case studies, and collaboratively consider the future of Osaka Bay.



© Expo 2025



Reduction of greenhouse gas emissions



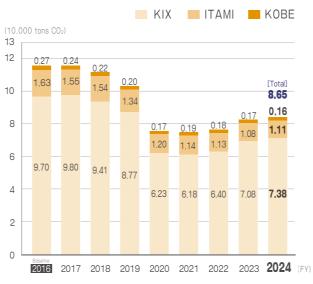
CO₂ emissions from airports

We at the Kansai Airports Group are steadily reducing CO₂ emissions through energy conservation, the use of renewable energy, and other decarbonization initia-

Due to the COVID-19 crisis that began in FY2019, CO₂ emissions were significantly reduced along with the decline in flights and passenger numbers. Since FY2022, passenger traffic has gradually recovered, and in FY2024 the three airports together recorded an all-time high of 50.86 million passengers. In this context, we have continued our efforts to reduce CO₂ emissions while building on the experience gained in energy management during the pandemic, and achieved a 25% reduction in FY2024 from FY2016 levels.

The overall CO₂ emissions of the airports are approximately 623,000 t-CO₂ at KIX, 236,000 t-CO₂ at ITAMI and 45,000 t-CO₂ at KOBE, with the majority of CO₂ emitted from aircraft. In addition to addressing our own emissions, the Kansai Airports Group is also focusing on the decarbonization of the entire airport, advancing initiatives in collaboration with airport businesses and the respective airport providers.

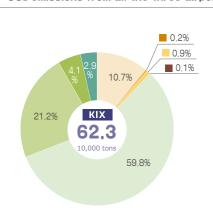
CO₂ emissions of the Kansai Airports Group

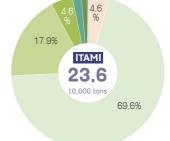


Note: • The CO₂ emission factor for electricity is based on the data from FY2023. Calculated based on the Airport Carbon Accreditation (ACA) Level 4

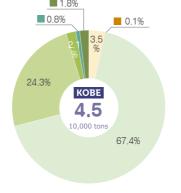
- emission calculation conditions. CO2 emissions are calculated by categorizing them into Scopes 1 to 3 in line with the GHG protocol (universal standards for calculating and reporting on GHG emissions) concept.
- Since the figures are rounded to the second decimal place, the sum of the values for each airport does not necessarily equal the total.

CO₂ emissions from all the three airports (in FY2024)





15



Note1: Since component percentages are rounded to two decimal places, their sum does not necessarily add up to 100%.

Note2: Calculation Conditions

- · Vehicles refer to passenger vehicles and ground support equipment (GSE)
- · Incineration of grass clippings, food residue, sludge and other biological waste
- Emissions from accessing the airport and aircraft are based on estimates.
- · Emissions from aircraft are based on the LTO (Landings and Takeoffs: aircraft activity at altitude of 3,000ft and under) cycle stipulated by ICAO.
- Scope1: CO2 directly emitted by incinerating fuels used in vehicles. emergency generators and other machinery.

0.1%

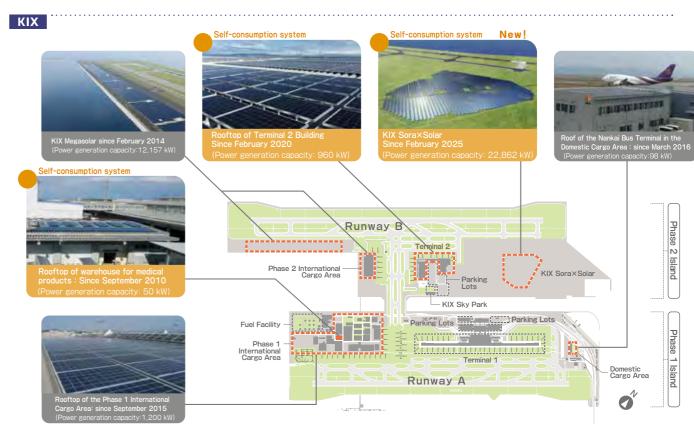
- Scope2: CO2 indirectly emitted when electricity is purchased and used
- Facilities managed by Kansai Airports Vehicles managed by Kansai Airports Waste/wastewater Others
- Scope3: CO2 emitted by other businesses involved in airport business activities.
- Aircraft Accessing the airport, etc. Business facilities

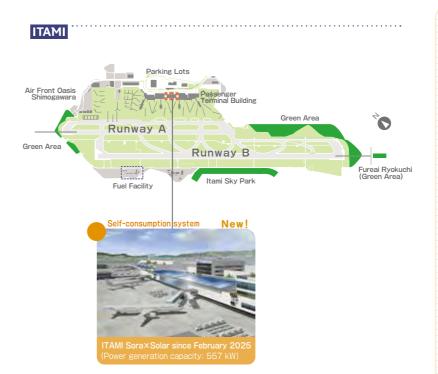
Vehicles managed by businesses Waste/wastewater Others

Utilize Solar Power Generation

As large amounts of electricity are used in terminal buildings, warehouses, and other airport facilities, the utilization of renewable energy is key to reducing greenhouse gas emissions. The Kansai Airports Group utilizes unused land and the rooftops of airport buildings for the installation of solar power generation systems. By introducing a self-consumption solar power generation system, we are working towards on-site energy management.

Installation of self-consumption solar power generation systems





Start operating a new self-consumption solar power generation system

KIX ITAMI

A new solar power generation project started in KIX and ITAMI, in which a new solar power generation facility "KIX-ITAMI Sora × Solar" generates power and supplies electricity to terminal buildings and other facilities. The project employs an on-site PPA scheme, making its annual power generation the largest in domestic airports*1. This will reduce CO2 emissions of the Kansai Airports Group to approximately 15%*2

*1: As of February 2025.

*2: Calculated based on the estimation of power generation in EY2025 and the total CO2 emissions in EY2023



KIX Sora×Solar



ITAMI Sora×Solar

New!

Promote energy conservation

To achieve our target of reducing greenhouse gas emissions, efficient energy use and energy conservation efforts to minimize energy consumption are key. At the airport, energy consumption is highest in building facilities such as terminal buildings, mainly due to air conditioning and lighting. The Kansai Airports Group promotes energy conservation by introducing and optimizing energy-efficient equipment. In addition to physical facility upgrades, we also place importance on optimizing daily operations. While exploring advanced solutions, we strive to achieve efficient operations.



Air-conditioning system

[Major initiatives1

- Energy-efficient air-conditioning system
- Optimizing ventilation system
 - Window insulation and anti-sunlight measures

.....

Optimizing air-conditioning control

KIX

A community heating and cooling system* is employed to supply heating and cooling required in the airport. We promote the reduction of greenhouse gases by taking advantage of economies of scale and using efficient large heat-source systems.

* Community heating and cooling system: A system that centrally produces cold water, steam and other heat sources at the heat supply plant and supplies them to multiple





Upgrading to low-GWP refrigeration unit

Kansai International Airport Heating & Cooling Supply Co., Ltd. (KHC) is upgrading and introducing energy-efficient heat source equipment supplying heating and cooling. An energy-efficient chiller using a new refrigerant (HFO-1234yf) with low global warming potential is partly introduced to achieve heat supply with less environmental impact.

......

ITAMI

At Itami, we are introducing energy-efficient inverter-controlled electric turbo chillers, centralizing cold- and hot-water pumps for air-conditioning, and introducing inverter-controlled equipment. At the terminal building, we strive to reduce the air-conditioning load by introducing double low-e glazing and light-blocking panels to control heat transfer and solar radiation.





exterior wall of the terminal building

KOBE

We installed automatic curtains and applied heat-shielding paint to the waiting room of the terminal building.



照明設備

[Major · 100% LED conversion of lighting

initiatives] · Expansion of sensor and brightness control

KIX ITAMI KOBE

In line with the renovation of the terminal building at ITAMI and the ceiling renovation at KOBE, we have been progressively converting lighting to LED at each airport. Most recently, LED lighting has been introduced as part of the ongoing renovation of KIX Terminal 1.

Going forward, we are working toward achieving 100% LED conversion of facility lighting and airfield lighting by FY2030.





KIX Terminal Building 1



KIX aviation lighting

KIX

When upgrading and newly installing electrical equipment, we introduced a new high-efficiency transformer, which reduces power loss by the transformer.

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Optimizing operations

[Major initiatives]

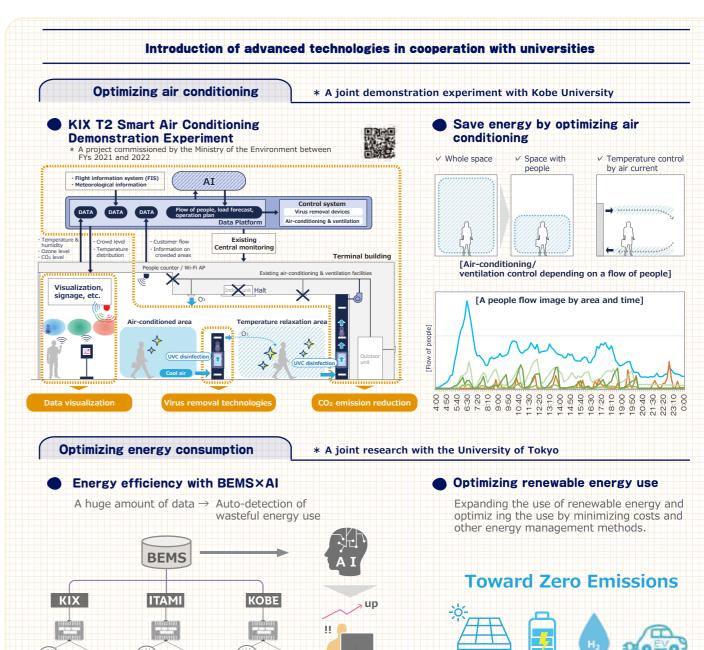
- ·Visualizing and analyzing energy use with BEMS
- ·Optimizing operations with AI

To optimize operations to conserve energy, it is important to visualize energy achievements, clarify challenges, and take appropriate measures. Therefore, we implement operations by utilizing the Building Energy Management System (BEMS) which allows data collection, management, and analysis in a central manner. Going forward, we strive to optimize automatic operations combining BEMS and AI.

KIX ITAMI KOBE

Through daily management and monitoring activities, we control optimum air-conditioning temperatures and unnecessary lighting. We also work to improve air-conditioning management by closely monitoring on-site temperature and humidity, while taking customer feedback into account. In addition, we regularly conduct energy-conservation patrols in the terminal buildings to check unnecessary lighting and air-conditioning operations.



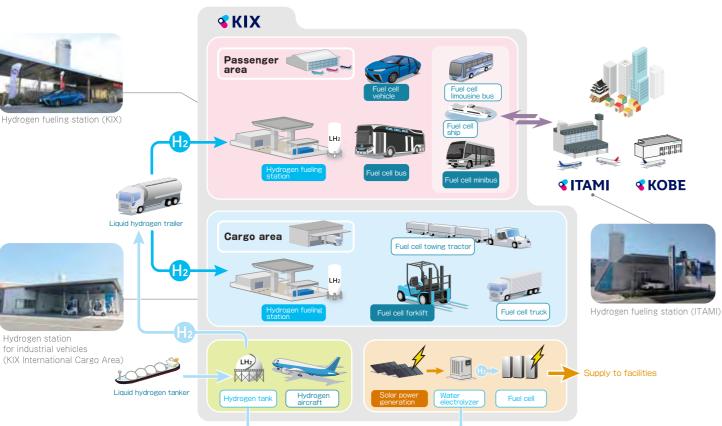


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Utilize Hydrogen

Hydrogen is the ultimate form of clean energy; generating only water after combustion. Its excellent storability and portability allows using it whenever and wherever needed. To make carbon-free operation a reality in an airport covering a large area and operating around the clock, expanding the use of hydrogen energy will become important. In anticipation of the hydrogen society on the horizon, the Kansai Airports Group is promoting the use of hydrogen in collaboration with airport businesses and working towards the full-scale introduction of hydrogen energy in airport facilities and vehicles.





19

The airport marked the full-scale launch of the Hydrogen Grid Project in May 2014 and actively engaged in testing fuel-cell forklifts for practical applications; establishing a model case involving the use of hydrogen at airports and other activities.

Currently, commercial hydrogen stations for fuel-cell vehicles (FCVs) and fuel-cell buses (FC buses) have been installed at both KIX and ITAMI, while a hydrogen-charging facility for fuel-cell industrial vehicles were also installed at KIX.

The Kansai Airports Group currently uses two FCVs as operational vehicles within KIX and ITAMI. In KIX, 21 fuel-cell forklifts (FCFLs) were introduced in the CKTS import cargo building and currently operate in the KIX International Cargo Area. Most forklifts, except the large type, were replaced with FCFLs at the CTKS import cargo building.

In March 2022, we cooperated with Nankai Bus Co., Ltd. to introduce fuel-cell buses operating within KIX. This marked a first for Osaka Prefecture to introduce fuel-cell buses as airport shuttle bus on a full scale. Moreover, in February 2025, we introduced fuel-cell minibus in cooperation with Kishiwada Kanko Bus Co., Ltd. for the first time in the Kansai region.

Fuel-cell Forklifts

In April 2017, the airport completed work on Japan's first hydrogen station for industrial vehicles at the International Cargo Area that includes liquid hydrogen tanks and high-pressure hydrogen supply lines. The largest trial operation in Japan using hydrogen station and FCFLs is now taking place.

Introducing FCFLs can help reduce CO2 emissions compared to forklifts powered by fossil fuel or electricity. In



addition, fuel-cell forklifts can be refueled in around three minutes, meaning they can be operated continuously without the hassle of charging or replacing battery packs. As a result, they can offer significant improvements in both work efficiency and work environment.

February 2015: Begins trial operation of fuel-cell forklifts at the International Cargo Area as part of the Fuel-cell Forklift Practical Application and Development / Testing of Optimal Hydrogen Infrastructure Improvements Project, selected by the Ministry of the Environment, becoming the first airport in Asia to do so

November 2016: Introduces first mass produced fuel-cell forklift April 2017: Commences operations of hydrogen station for industrial vehicles

By 2025: 21 FCFLs in operations

Fuel-cell Buses

KIX ITAMI

Infrastructure has been established at KIX and ITAMI airports to enable hydrogen filling for FC vehicles as well as FC buses. We also introduced FC buses at KIX as airport shuttle bus. Aided by a subsidy program from the Ministry of the Environment of Japan and Osaka Prefecture as well as contributions from five Mitsubishi UFJ Financial Group companies *, Nankai Bus Co., Ltd. introduced and operated the bus service in KIX.

In February 2025, we introduced a FC minibus in cooperation with Kishiwada Kanko Bus Co., Ltd. for the first time in the Kansai region. This bus can operate on expressways and is used not only within the airport but also for regional events. The introduction of FC minibuses as sightseeing buses is the first of its kind in Japan and supported by subsidies from the Ministry of the Environment and Osaka Prefecture.



Fuel-cell Buses

* MURC Bank. Ltd., Mitsubishi UFJ Trust and Banking Corporation, Mitsubishi UFJ Securities Holdings Co., Ltd., Mitsubishi UFJ NICOS Co., Ltd. and ACOM CO., LTD.

May 2007: Opens hydrogen station in KIX 20ctober 2012 to March 2014:

Conducts real-life testing using an FC bus (as a shuttle bus from the Aeroplaza to KIX Terminal 2)

January 2016: Iwatani Hydrogen Station KIX, the first commercial hydrogen station to be introduced in a Japanese airport, commences operations in the phase 2 KIX airport island

April 2019: The ITAMI Iwatani Hydrogen Station is installed and goes into operation

March 2022: FC buses are introduced in KIX, marking a first for Osaka Prefecture

February 2025: FC minibuses are introduced in KIX, marking a first for the Kansai region



Fuel-cell Minibuses

To capitalize on hydrogen in the aviation industry

KIX ITAMI KOBE

In October 2024, Airbus, Kansai Airports, and Kawasaki Heavy Industries signed a Memorandum of Understanding (MoU) to study the feasibility of hydrogen infrastructure at three airports operated in the Kansai region. Through a study on infrastructural development for the introduction of hydrogen aircraft, the partnership will contribute to the decarbonization in the aviation industry including the airport sector.

With this MoU, the three parties will conduct an initial feasibility study, strengthen collaboration to materialize the supply of hydrogen to aircraft at the three airports, and pave the way for infrastructural development for the use of hydrogen in the aviation industry.



Conceptual image of hydrogen aircraft (source: Airbus)

Promote Zero-Emission Vehicle (ZEV)

Since many vehicles are operating within the airport, the introduction of ZEV is an important initiative to achieve airport decarbonization. As well as introducing ZEV in our fleet, the Kansai Airports Group also advances initiatives to encourage customers to use eco-friendly vehicles.

Introducing ZEV in our fleet

KIX ITAMI

Within the Kansai Airports Group, we are promoting the introduction of eco-friendly vehicles including EV, FCV and other types of zero-emission vehicle (ZEV) in our fleet as well as establishing a vehicle sharing system that streamlines our vehicle operation.

ZEVs in the Kansai Airports Group's fleet

Ratio of ZEVs in our fleet 23 %

Introducing remote-controlled electric aircraft tug

KIX

In March 2025, CKTS Co., Ltd. introduced remote-controlled electric aircraft tugs. Since these vehicles run on electricity and do not require a special license to operate, they help reduce staffing needs and streamline operations.



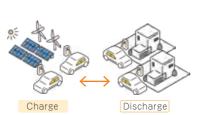
Installation of EV Charging Stations in customer parking lots

KIX ITAMI KOBE

Our three airports have a full complement of EV charging stations to encourage the use of eco-friendly vehicles. In ITAMI, we have installed 184 EV charging stations in total in the customer parking lot.

In March 2025, 14 EV charging stations were installed in parking lot of the head office. These stations can be used to charge local customers' EVs by making them available to the public in the event of an emergency.





Charging third-party EVs by making it available to the public

Reducing CO₂ emissions from aircraft

In aircraft operation, significant CO₂ emissions result from fuel consumption and from the electricity supplied to parked aircraft. We actively cooperate with stakeholders to reduce these emissions.

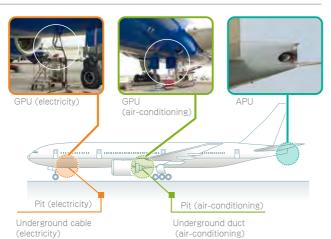
Promoting the use of GPUs

CO₂ emissions can be controlled by increasing the use of GPUs (Ground Power Units) instead of APUs (Auxiliary Power Units) to supply electricity to parked aircraft.

The Kansai Airports Group encourages airlines using its airports to use GPU. In addition, we specify the time allowed for APU use in the Aeronautical Information Publication (AIP) to promote the use of GPUs.

*For the GPU utilization rate, see the reference data on the end of the report.

Outline of GPU



Promoting the use of Sustainable Aviation Fuel (SAF)

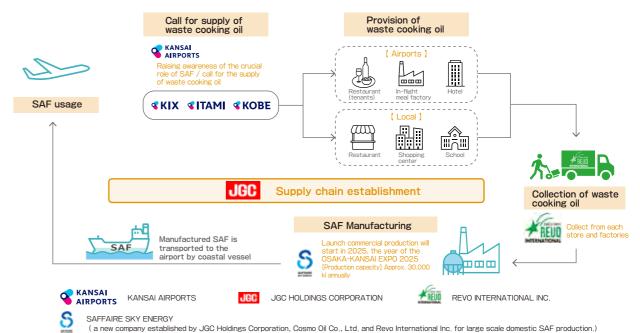
Since aircraft generates the majority of CO₂ emissions associated with airports, reducing CO2 emissions from aircraft has become an urgent global issue. As demand for Sustainable Aviation Fuel (SAF)* is particularly climbing ever higher, it is important to stably produce and supply it in Japan. Since the Kansai Airports Group concluded a basic agreement in June 2022 with JGC Holdings Corporation and Revo International Inc. on a large-scale production of domestic SAF products, we have strived to start their production and supply using waste cooking oil from restaurants in the three airports.

In May 2025, domestic SAF was supplied to passenger flights for the first time, and the first flight took off from KIX.

* SAF(Sustainable Aviation Fuel: An aviation fuel produced from used cooking oil, plant/animal fat, woody biomass and other feedstock, which substantially reduces CO2 emissions compared to other conventional fuels derived from crude oil.



Domestic SAF production flow using waste cooking oil



Approach toward domestic SAF production

KIX ITAMI KOBE

The Kansai Airports Group has helped disseminate and expand the use by raising awareness of its importance and calling for supply of waste cooking oil. As of March 2025, waste cooking oil has been collected from 35 airport-related facilities and five surrounding facilities. We have also worked with Kobe City and Blue Earth Project (NPO) to collect domestic waste cooking oil.

The waste cooking oil collected is being recycled as biodiesel by REVO International Inc., which is also used in part of grass cutter and other maintenance vehicles at KIX.

* Scan the code to show the

waste cooking oil provider



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An example of collection box

[Location of the domestic waste cooking oil collection box]

- AEON MALL Rinku Sennan
- AEON MALL Hineno
- AEON MALL Sakai Teppoucho
- AEON Fujiidera Shopping Center
- AEON MALL Sakai Kitahanada

Waste reduction, sorting and recycling

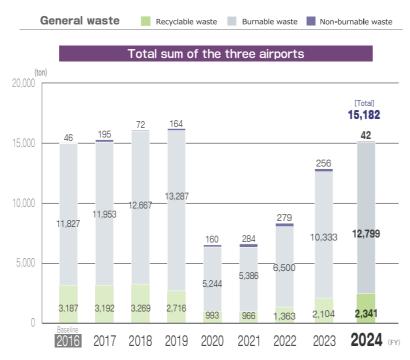


Waste from the airports

In the airport, various types of waste are generated every day such as food waste from restaurants, paper waste, plastic waste, and empty boxes disposed of by customers. The amount of waste is related to the passenger traffic.

After FY2020, the amount of waste substantially decreased associated with the decrease in passenger traffic due to the impact of COVID-19. Subsequently, however, the waste generation is increasing with the recovering passenger traffic. The Kansai Airports Group strives to reduce and recycle waste to avoid increasing the amount of incinerated waste from FY2016 levels.

Under a working group to consider waste reduction, we will continue to consider how to recycle food waste, waste plastics, and glass clippings to reduce waste generation and increase recycling rates.



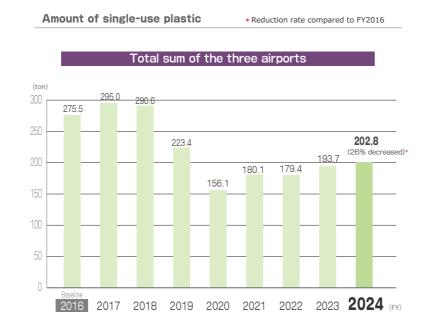
Note) Since the figures are rounded to the second decimal place, the sum of the values for each airport does not necessarily equal the total,

The amount of single-use plastic by Kansai Airports Group

23

The Kansai Airports Group works on conversion of materials and recycling of waste to reduce the amount of single-use plastic. Although the amount of use rises and falls by the flight and passenger numbers, we have steadily reduced the amount since FY2016 to date. In FY2024, we promoted the reduction by approximately 26% from FY2016 levels.

As the number of flights increases in the future, the amount of single-use plastics is expected to increase. We will strive to further reduce the amount by replacing it with biomass and optimizing its use. At the same time, we will work with airport-related businesses to promote the reduction of single-use plastic at all airports.



Promotion of reducing and recycling waste

To promote waste reduction and recycling in the airport where various types of waste are generated, we are working on thorough waste separation and their appropriate disposal by type. While introducing new methods and technologies, we have promoted initiatives to become a zero-waste airport with a 100% recycling rate.

Introducing food waste disposers

KIX

In the airport, a lot of food waste (kitchen waste) is generated every day from restaurants and lounges, employee cafeteria, in-flight meal factory and other facilities. Although they are usually incinerated, we introduced a food waste disposer in KIX's restaurant, processing daily food waste.

This disposer biodegrades food waste using microbes, which, once decomposed, is discharged into the sewage system. Eliminating transport, burning and other processing on site allows us to reduce the volume of waste to be incinerated and CO2 emissions from

incinerating garbage bags as well as reducing disposing costs and transport demands and improving hygiene in the kitchen. We will strive to roll out the disposer to as many tenants in the terminal building as possible to reduce the amount of food waste incinerated airport-wide.



Consideration and introduction of new recycling items

KIX ITAMI KOBE

To reduce the amount of incinerated waste, we are considering recyclable combustible waste while comparing it to the legal system.

We have recycled cans, glass bottles, plastic bottles, newspapers, magazines, and cardboard. In 2024, we started recycling shredded paper in January and miscellaneous paper (paper box, paper bag, wrapping paper, etc.) in August. These wastes have been reused as raw materials of recycled paper. Furthermore, in

March 2025, we started recycling food waste from the in-flight meal factory which used to be incinerated.

With these initiatives, we strive to further reduce the amount of waste disposed of.



Dyring of grass clippings

To support safe airport operation, green zones are installed in the runway areas. We cut grass on a regular basis to ensure safety. The cut grass is incinerated but also dried to reduce the amount of waste. Since the reduction of disposal amount by around 20% was confirmed by the demonstration experiment carried out in FY2023, the drying process started on a full scale in FY2024.

We will consider extending this effort to other airports, expanding the drying yard, and utilizing it as a recycling



Reduce the amount of single-use plastic

KIX ITAMI KOBE

To reduce the amount of single-use plastics, we have also promoted initiatives in offices, terminal buildings and hotels, as listed below.

- ✓ Using paper shopping bags (FSC
- √ Using paper straws, paper cups and wooden cocktail stirrers at the lounge
- ✓ Introducing biomass amenities in hotel guestrooms
- ✓ Using wooden cup holders
- √ Raising environmental awareness via original eco-bags and badges
- √ Reusing suitcases
- ✓ Filling up the personal bottles with free water supply machines
- ✓ Closed-loop recycling of plastic



Recycling of cargo packing materials and reducing the use

Used cargo packing film, Styrofoam and wood waste are generated in the air cargo unloading operations. CKTS Co., Ltd. has worked on the reduction of industrial waste by recycling those wastes as well as striving to reduce the use of single-use plastic by utilizing thinned vinyl and recycled raw materials for wrapping materials of international export cargo.





Monitor the local environment



Monitoring aircraft noise

At the three airports, we implement various environmental measures, including monitoring and measuring aircraft noise, to ensure a healthy living environment around the airports. At the 14th Kansai Airports Round Table Meeting held in July 2024, the introduction of a new flight path plan for KIX and KOBE was agreed upon, and operations commenced in March 2025. Following this, we have strengthened our environmental monitoring system by increasing the number of noise measurement points, introducing and publishing a new flight information system, and establishing stakeholder meetings for each prefecture.

(Awaii City / Kamaguchi) waji City / Fukura)

KIX was built approximately 5 km offshore in Senshu Bay as an airport that is pollution free and co-exists with local communities. To reduce noise impacts on surrounding areas, KIX has conducted continuous and periodic noise monitoring and implements various noise reduction mea-

In preparation for the anticipated increase in air travel demand driven by the 2025 Osaka-Kansai Expo, we are not only renovating Terminal 1 and reviewing flight paths but also strengthening our noise monitoring system.It has been confirmed that noise levels exceeding environmental standards (Lden 57 dB) remain limited to the sea

ITAMI



12 continuous monitoring stations

Located in a major metropolitan area with convenient access, ITAMI is an urban airport surrounded by residential, commercial, and industrial areas. To reduce noise impacts and improve the living environment, various environmental measures are implemented in accordance with the Act on Prevention of Damage caused by Aircraft Noise in Areas around Public Airports.

These measures include noise source reduction, structural improvements of the airport, and various subsidy programs for surrounding facilities.

KOBE



2 5

KOBE is an airport built approximately 1 km offshore from Kobe Port and is also an urban airport serving the major city of Kobe. International charter flights commenced in April 2025, and a new Terminal 2 has opened.

With the introduction of new flight paths, the number of daily takeoff and landing slots has expanded. In April 2025, Terminal 2 opened and international charter flights began operating, resulting in increased flight frequencies and passenger numbers. In introducing the new paths, we held briefing sessions with local municipalities for residents and are reviewing and strengthening our noise monitoring system.

Reducing aircraft noise

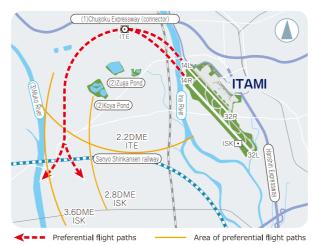
Kansai Airports promotes the replacement of older aircraft with minimal noise and monitors adherence to designated flight altitudes. Airlines are requested to comply with flight paths and consider noise reduction measures.

Setting and restriction of flight path

KIX ITAMI KOBE

For KIX and KOBE, which are offshore airports, flight paths over the sea are designated to minimize noise over land. Aircraft departing from KIX are required to fly over land only after gaining sufficient altitude over Osaka Bay after takeoff from the runway.

At ITAMI, a land-based airport, aircraft follow designated routes as shown in the map below to minimize noise impacts while ensuring flight safety.



Note: The figure above is a conceptual flight path diagram and does not suggest that all aircraft will fly on the red dotted lines.

Restricting flight movements and hours of operation

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ITAMI

At ITAMI, restrictions are placed on the total number of scheduled flights and operational hours to reduce noise impacts on surrounding areas.

At the 12th Kansai Airports Round Table Meeting, it was agreed to secure an annual capacity of 500,000 flight movements across the three airports, prompting a review of flight frequencies at KIX and KOBE.

	KIX	ITAMI	KOBE
Aircraft landings/ takeoffs	60 times/hour	370 times/day	120 times/day
Operating Hours	(24 hours)	7:00 to 21:00 (14 hours)	7-23 hours (16 hours)

Encouraging the use of quieter aircraft

ITAMI also encourages the use of guieter, minimal-noise aircraft and has introduced a landing fee system that applies discounts or surcharges based on measured noise levels around the airport.

Adoption of noise abatement flight procedures

KIX ITAMI KOBE

Each airport employs various noise abatement flight procedures to reduce the impacts of noise from aircraft approaching the airport.

Delayed-flap approach (KIX, ITAMI, and KOBE)

By delaying flap operation, aircraft drag and engine thrust are reduced, lowering landing noise. Landing gear deployment (gear-down) is also performed closer to the airport to reduce noise.

Low-flap angle landing (ITAMI)

Landing with a shallower flap angle reduces drag and engine thrust, thereby reducing noise.

• Curtailing the use of reverse thrust (ITAMI)

To reduce nighttime noise, jet aircraft landing on Runway B between 7:00 pm and 9:00 pm are requested to minimize the use of reverse thrust as long as safety is not compromised.

Rapid ascent (take-offs/departures) (ITAMI)

To reduce aircraft noise on communities next to the airport, the airport has established flight procedures that require departing aircraft to rapidly ascend to 3,000 feet (about 1,000 meters).

Continuous descent operation (KIX)

A method of aircraft descent that maintains minimum engine thrust for an optimal, continuous descent without level flight until the aircraft reaches the initial approach fix for instrument landing. KIX employs this procedure during certain hours and for aircraft approaching the airport via designated paths.

Noise reduction measures at airport facilities

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At ITAMI, noise barriers, noise protection embankments, and noise protection forests have been installed around the airport to reduce noise during takeoff, landing, and taxiing. The airport has also erected a large noise barrier at the engine testing site in order to reduce noise during aircraft engine testing.





embankments

during aircraft engine testing



Measures in the vicinity of the airport

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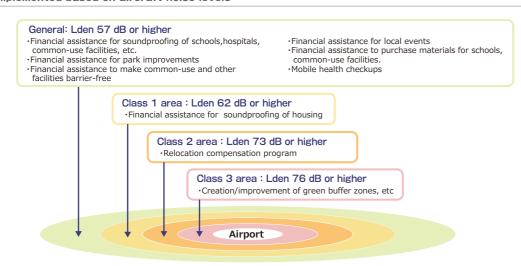
ITAMI

Around ITAMI, various initiatives are implemented to improve the living environment. In accordance with the impact level of aircraft noise under relevant laws and regulations, Kansai Airports continues to properly implement long-standing measures initiated under government operation, such as green space development (Category 3 areas), relocation compensation (Category 2 areas), subsidies for soundproofing work on houses and schools, support for park development and local events, and mobile health check-ups conducted in the community (Category 1 areas and surrounding areas).

In addition, Kansai Airports values communication with the local community through regular meetings with community representatives and participation in local events. At these events, activities using "Sorayan," the official character of the three airports, are held to help residents feel closer to the airport. Direct feedback is also gathered on perceptions of aircraft noise to better understand the situation in surrounding areas.

In addition, since April 2025, we have introduced a "Night-time noise control charge" to delayed flights that are unavoidably taking off or landing after 9:00 pm, beyond normal operating hours. The collected charge is used to fund projects that help improve the living environment of surrounding communities.

Measures implemented based on aircraft noise levels



Itami Sky Park and Fureai Ryokuchi

Green spaces developed around the airport include observation decks with views of aircraft landings and takeoffs and playground complexes (Itami Sky Park),

as well as a youth baseball field, heated swimming pool, and grass lawn (Fureai Ryokuchi), all of which are cherished as places of relaxation for the local community.



Participation in local events

Kansai Airports sets up booths at local events. offering activities such as creating original Sorayan pinback button. On these occasions, questionnaire

surveys and other tools are used to collect feedback on daily perceptions of aircraft noise and community relations.



Dialogue with local residents

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KIX KOBE

Establishment of stakeholder meetings

Based on proposals from the Environmental Review Committee and requests from local communities, Kansai Airports has established a new environmental monitoring system following the introduction of new flight paths, and sets up stakeholder meetings in each prefecture with participation from the national government.

While prioritizing safety, Kansai Airports aims to reduce the burden on residents' living environment through operational considerations and improvements to new flight paths.

At these meetings, flight and noise data are used to identify issues, and improvement measures are considered when necessary. Working-level meetings are held monthly, and the main council meets once a year.

Cooperation with the Council of Municipalities **Surrounding Osaka Itami Airport**

The Council of Municipalities Surrounding Osaka Itami Airport, consisting of ten municipalities around ITAMI (Toyonaka, Itami, Kawanishi, Ikeda, Takarazuka, Amagasaki, Nishinomiya, Ashiya, Suita, and Minoh), promotes noise and safety measures at ITAMI and works to harmonize the airport with surrounding com-

Every year, Kansai Airports receives requests from the Council on various aspects such as environmental measures including noise control, safety measures, and improved convenience for users, and engages in discussions on these topics.

Monitoring of air and water quality and reducing environmental impact

To monitor the environmental impacts caused by aircraft operations and airport management, Kansai Airports sets conservation targets and publishes monitoring results not only for aircraft noise but also for air quality, water quality, and sediment. KIX has installed waste treatment and wastewater treatment facilities, where management values stricter than legal standards are proactively applied to prevent environmental impacts from spreading outside the airport facilities.

Measurement, monitoring, and disclosure

At KIX, air quality, water quality, and sediment are each measured and surveyed. Air quality is continuously monitored on the opposite shore from the airport island, while water and sediment are surveyed twice a year in the sea area surrounding the airport island.

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When issues are identified against conservation targets, causes are investigated, and appropriate measures are implemented.

At ITAMI, an automatic monitoring survey of air pollution is conducted at two locations around the airport every three years. The survey continuously measures air quality 24 hours a day over a seven-day period to confirm whether the environmental standards set for each parameter are being met.

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Emission control at airport incineration facilities

General waste generated on the island is collected separately into combustible waste and recyclable waste. Combustible waste is incinerated at the Waste Disposal

The exhaust gas generated during incineration is properly treated by filter-type precipitator and other equipment, ensuring that air pollutants such as nitrogen oxides sufficiently meet emission standards. Dioxin emissions also remain well below regulated standards. Furthermore, waste heat from incineration is being used as a source of heat for the incinerator, and for hot water and air-conditioning at the Waste Disposal Center.



Waste Disposal Center



Advanced wastewater treatment within the airport

Wastewater discharged from passenger terminal buildings and other airport facilities is treated as domestic wastewater, and wastewater from industrial sources first undergo es on-site preprocessing to remove hazardous substances, and then undergoes advanced treatment at the Sewage Treatment Center.

The treated water is strictly managed to meet voluntary quality standards stricter than legal requirements before being discharged.

Some of the treated water is reused as reclaimed water for toilet flushing and other purposes, effectively utilizing water resources.





Sand filtration

Efficient use of water resources



Water is used in a wide range of facilities and operations at the airport, including restaurants (tenants) inside terminal buildings, hotels, in-flight meal factories, restrooms, and air conditioning systems. Since FY2020, water consumption dropped significantly due to the impact of COVID-19 but has been rising again in line with the recovery in passenger numbers.

To minimize the environmental impact of wastewater and make efficient use of water resources, we strive to reduce water consumption and promote the use of reclaimed (recycled) water and rainwater.

The Kansai Airports Group manages the actual consumption of both total airport water use and the clean water used by the Group itself, sets targets for each, and will continue to advance the upgrading of energy-efficient equipment and the horizontal deployment of water-conservation practices to achieve those targets.

Total amount of water used at the entire airports



Clean water usage by Kansai Airports Group



Note) Since the figures are rounded to the second decimal place, the sum of the values for each airport does not necessarily equal the total

Reducing water usage

Reducing total water consumption at airports requires the efficient and waste-free use of clean water.

The Kansai Airports Group is systematically introducing water-conservation equipment and improving the efficiency of equipment, while also optimizing water use through operational improvements.

Introduction of water-conservation equipment

KIX ITAMI KOBE

At the facilities managed by the Kansai Airports Group, we are progressively upgrading to water-conservation models. Water-saving toilets were installed during the terminal building renovations, and water-saving showers were introduced during the hotel facility upgrades.





Efforts to save water

KIX ITAMI KOBE

In terminal building restrooms, the flow of automatic faucets is optimized. We start by establishing management criteria for water flow to ensure there is no inconvenience to passengers, then confirm actual flow rates on site and adjust them when they exceed the standards.





Energy-efficiency by upgrading systems

KIX ITAMI KOBE

The Heat Supply Center at KIX produces chilled water for air conditioning using large chiller - critical equipment supporting comfort and operational efficiency at the airport. Maintaining stable cooling capacity requires efficient heat rejection, which consumes significant volumes of cooling water. To conserve water resources and reduce environmental impact, energy-efficient electric turbo chillers with reduced cooling water consumption and air-cooled heat pump chillers utilizing air for heat exchange have been introduced. This allows the required cooling capacity to be maintained while reducing water use.





* Learn more about the Heat Supply Center and other initiatives by KHC: https://www.kiahc.co.jp/environment.php



Utilizing the aircraft onboard water

Aircraft carry clean water on board for use in dishwashing, toilet flushing, and other in-flight needs. Any water that reaches its expiration date without being used is normally discarded. The Kansai Airports Group is working with multiple related businesses to repurpose such water originally slated for disposal as firefighting water, thereby promoting the effective use of water resources.





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We promote the efficient use of water resources through the utilization of reclaimed (recycled) water and rainwater. At KIX in particular, water treated at the Sewage Treatment Center is reused as reclaimed water. At ITAMI and KOBE as well, water resources are circulated through the use of reclaimed water and rainwater, contributing to a reduction in clean water consumption. Currently, following consultations with relevant local governments, approximately 30-50% of total water use at KIX and KOBE is supplied by reclaimed water and rainwater.

KIX

Reclaimed water is used for toilet flushing and watering and construction activities within the airport. A new initiative began in FY2023 to also use reclaimed water for firefighting drills.



ITAMI

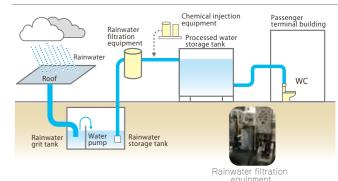
3 0

In March 2024, a rainwater harvesting tank was installed on the terminal building roof for watering of rooftop plants.



By storing and filtering rainwater or using treated water from sewage treatment plants for toilet flushing and watering of plants, we make effective use of water resources. Since FY2025, we have also started using reclaimed water during firefighting drills.

Rainwater utilization





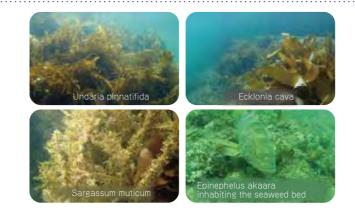
Biodiversity conservation



Creation of a rich seaweed bed environment

KIX is the world's first full-scale offshore airport. To prevent the impact of aircraft noise on the surrounding area, the airport was built on reclaimed land in an area approximately 5 km off coast of Senshu in Osaka Bay, with an average water depth of 18 to 20 m. From the planning stage, the airport was constructed considering the harmony with the marine environment.

To contribute to the creation of a habitat for marine life in Osaka Bay, we are actively engaged in the creation of a rich seaweed bed environment around the airport island.

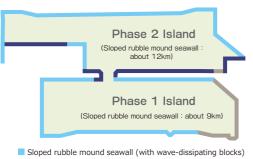


Origins of Seaweed Bed Creation

Use of sloped rubble mound seawall

During the initial land reclamation, most of the airport island revetment adopted a sloped rubble mound seawall design. This allows sunlight to reach a broad area, creating conditions for a wide variety of seaweed species to flourish. Various innovations such as supplying seedlings and installing blocks conducive to seaweed growth were also actively implemented from the

3 1



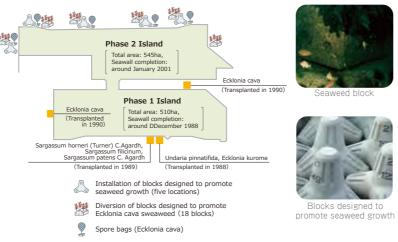
- Sloped rubble mound seawall
- Other types of seawall

Sloped rubble mound seawall

Seaweed bed creation during the island construction

After the first-phase airport island revetment was built, large seaweed seedlings were actively supplied, and roof-shaped seaweed reef blocks were devised and installed to prevent silt accumulation. As a result, perennial species such as Ecklonia cava as well as Undaria pinnatifida and Sargassum gradually spread, forming stable seaweed beds across the revetment.

In the second-phase revetment works, we developed and installed wave-dissipation blocks designed to improve seaweed growth, reused seaweed reef blocks from Phase 1, and applied spore-bag seeding with mature seaweed. Consequently, while it took about seven years to form seaweed beds around the first-phase island, the second-phase island achieved this in approximately three years.



Conservation and expansion of rich seaweed bed environments

Since starting seedling supply in 1989, KIX has conducted continuous monitoring of seaweed distribution for over 35 years. Based on survey results showing changes in distribution and physical conditions such as revetment works, we carry out transplanting and seedling supply to maintain and expand rich seaweed bed environments.

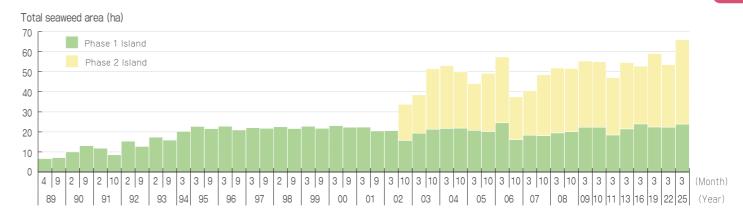
Latest survey results

Monitoring in March 2025 confirmed a total seaweed-growth area (seaweed bed area) of 66 ha - the largest on record - representing about 14% of all seaweed beds in Osaka Bay.* Around 60 species of seaweed, including large varieties, currently grow along the revetment, supporting a rich ecosystem surrounding seaweed communities.

* Based on the 2022-2023 survey of seaweed and tidal flat distribution in the Seto Inland Sea.



Extent of seaweed bed



J Blue Credit Certification and issuance

In December 2022, we quantified the CO2 absorption of seaweed growing on KIX revetments and received certification and issuance of 103.2 t of J Blue Credits*.

* J Blue Credit: a credit certified, issued and managed by Japan Blue Economy Association (JBE). The certification and issuance are made after examination and verification by a third-party committee independent of

103.2 t - CO₂ J Blue Credit Certification

Certified as a natural symbiosis site

In October 2023, the seaweed beds at the airport island seawalls were recognized and certified as a natural symbiosis site since the seaweed beds play a vital role in the conservation of biodiversity in Osaka Bay.



Creating a richer marine environment in collaboration with the community

3 2

The Kansai Airports Group also actively engages in marine environment conservation in collaboration with local communities. Working with other stakeholders who share Osaka Bay, we provide seaweed from the airport revetments, share our expertise, and support environmental education for future generations. In August 2023, construction blocks capable of being transplanted with their substrate were installed as new substrates and used to transplant seaweed to other waters.





Cooperation for blue carbon creation in Osaka Bay

In May 2024, in partnership with Osaka Prefecture's Blue Carbon Ecosystem Creation Support Project, seaweed collected at KIX, including Undaria pinnatifida and juvenile Ecklonia cava, was transplanted to the sea of Sakai City.



Cooperation with Hannan City

Under the Osaka Bay Sea Forest (Seaweed Bed) Conservation and Restoration Project, we are working with Hannan City to enrich the marine environment. Following the April 2023 seaweed transplantation, in April 2025 we conducted a second round, transplanting Sargassum horneri (Turner) C.Agardh and juvenile Ecklonia cava attached to substrates collected at KIX into the sea of Hannan City.



Conservation of marine environment

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Fish and shellfish survey on the seawall around the airport island

We have surveyed and released fish and shellfish every year in order to understand the habitat conditions of fish and] shellfish in the waters around the Kansai Airport island and improve the environment of fisheries resources in Osaka Bay. Since this area is designated as a no-fishing zone* for aquatic flora and fauna, we conduct surveys after completing the necessary procedures. The useful fisheries species caught (Sebastes inermis, Sebastiscus marmoratus, red seabream, Stephanolepis cirrhifernd and octopus sinensis) are released into the coastal seawall area of Osaka Prefecture opposite the airport island to increase the stock. As for Epinephelus akaara, which Osaka Prefecture aims to brand as "Naniwa Aco", individuals smaller than 30 cm are offered to related organizations in Osaka Prefecture as spawning parents to increase their stocks in Osaka Bay.

* A area designated by Osaka Prefecture to prohibit fishing/catching of all aquatic animals and plants.







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Activities to conserve the rich ocean

By partnering with the Osaka Prefectural government, Osaka Prefectural Federation of Fishermen's Cooperatives and other major maritime businesses, we strive daily to keep the coastal area of Osaka Prefecture beautiful and safe via the Osaka Prefecture Sea Area Beautification and Safety Associ-

These activities include cleaning and collecting waste accumulating and floating within Osaka Bay and drifting to the coast. We also collaborate with relevant fishery industry parties to collect waste during daily fishery operations, which generated an annual total of around 1,300 m3 in gathered waste.

Recently, given the challenge of increasing marine plastic waste, we help conserve the ecosystem in Osaka Bay via this activity.





Island greening and scenic improvement

To improve landscapes and create spaces for rest and relaxation on the airport island, we have installed plantings on terminal rooftops, inside terminal buildings, and at various locations on airport premises. These efforts are designed so that visitors can enjoy not only air travel but also the scenery and facilities of the airport.

ITAMI



[Terminal building roofton]





The rooftop observation deck is a spatial wooden structure, 400 meters long with total floor space of 8,200 square meters, which allows visitors to watch aircraft up close in an open space. We are committed to improving landscaping and creating a comfortable environment by installing planters within the passenger terminal building.



[Terminal building rooftop]



From the rooftop deck, visitors can enjoy urban panoramas on the north side as well as aircraft operating up close. A visual feast for visitors, with views and greening alike. Art and sculpture exhibitions are also held here.



[KIX Sky Park]

The airport has also created a large-scale green space called KIX Sky Park that allows visitors to enjoy watching aircraft taxiing,

(Planters and dry mist device)





We have installed planters for trees to form fresh areas of shade and a dry mist device at a shuttle bus station connecting Terminals 1 and 2. This project was subsidized by the Osaka Prefecture Intense Heat Countermeasure Project Utilizing Urban Greening.

3 3

Communications & Collaborations

In-house communications

Efforts to raise environmental awareness

The Kansai Airports Group provides education to raise environmental awareness, enabling each employee to proactively promote environmental initiatives. In addition to disseminating e-learning programs to all employees, we offer a support system to assist them in taking environmental certification tests, thereby encouraging voluntary learning. Voluntary study groups have also been organized within departments and group companies, steadily enhancing employees' environmental awareness.

Environmental workshop

We conduct Climate Fresk, an educational workshop on climate transition developed in France. In FY2024, approximately 200 officers and managers of the Kansai Airports Group participated in the workshop, where they gained insight into climate change and discussed the challenges and future directions facing us as an airport operator.



Recommendation to obtain the ECO Test

To promote voluntary learning among employees, we encourage them to obtain the Certification Test for Environmental Specialists (Eco Test)®*. By deepening their understanding of environmental issues, employees have strengthened their commitment to the environment. At Kansai Airports Technical Services (KTS), many employees voluntarily took the test, and KTS ranked first for two consecutive years (2023 and 2024) in the Tokyo Chamber of Commerce and Industry's "ECO People" certification rankings in the category of companies with fewer than 300 employees. We will continue to foster environmental awareness across the entire Group.

 Certification Test for Environmental Specialists (Eco Test) is a registered trademark of the Tokyo Chamber of Commerce and Industry.

Communication with stakeholders

Participation in the Airports Council International (ACI)

Kansai Airports is a member of Airports Council International, an organization representing 830 organizations that manage 2,181 airports in 170 countries and regions worldwide (as of September 2025). In September 2024, we participated in the 19th ACI Asia-Pacific & Middle East Regional Committee held in Bangkok, Thailand, and discussed on how to reduce environmental impact at airport from various perspectives.

Moreover, at ACI Green Airports Recognition 2025* held by ACI, our project for building a supply chain for locally produced and consumed Sustainable Aviation Fuel (SAF) was awarded the top Platinum Award. We have been highly recognized for our collaborative efforts with numerous stakeholders to promote the use of SAF.





The 19th ACI Asia-Pacific & Middle East Regional Committee

ACI Green Airports Recognition 2025 : An open call for projects related to the sustainability in the environmental field for airports in the Asia-Pacific and Middle East region, and awards are given to airports that have achieved outstanding results.

Collaborations with airport-related businesses

3 5

Environmental Standards Regulations

To reduce environmental impacts and fulfill our social responsibilities across the airports, we have established Environmental Standards Regulations. These Regulations clearly specify the environmental requirements that airport-related businesses must comply with, while also encouraging greater environmental awareness and the promotion of initiatives. We have also renewed contracts with tenants to include clauses on environmental standards and have encouraged their cooperation in reducing environmental impacts.

Airport tour for stakeholders

We hold a tour of environmental facilities at the airport for our stakeholders to share the Kansai Airports Group's environmental initiatives and collaborate on them.

In FY2024, 17 tenants from KIX and ITAMI visited the Waste Disposal Center, the Sewage Treatment Center, and the Solar Power Generation System.

Communication with Airport Users and Local Communities —

Dissemination of environmental information

Environmental information space in the airport

We disseminate information to make our environmental initiatives widely known to airport users. In the Sky View Observation Hall on KIX Island, displays showcase various environmental initiatives carried out on the island. During the Expo2025 Osaka, Kansai, Japan, we will set up an exhibition space in the KIX Terminal 1 building to present our initiatives at KIX—an offshore airport—highlighting harmony.

Disclosure of environmental information on the website

We are updating the environmental information on our website to make it easier to understand Kansai Airports Group's environmental initiatives. We focus on providing important information of airport operations to the local community, such as decarbonization efforts and real-time noise levels.





Exhibition space in the KIX Terminal 1 building

Environmental learning events

Special Event for Summer Vacation - Parent-child **Environmental Tour**

In August 2025, we organized an environmental tour for elementary school students and their parents living near KIX to visit our environment-related facilities. Participants learned about KIX's wide-ranging environmental initiatives by visiting the Sewage Treatment Center, riding a fuel-cell bus, touring the charging demonstration at the Hydrogen Station, and observing airlines' environmental measures.

A tour to learn about KIX from the sea

n September 2025, we organized a tour for elementary school students and their parents to learn about KIX from the sea. This event, jointly hosted by Kansai Airports and the Osaka Prefecture Federation of Fishing Cooperative Associations, commemorated the 30th anniversary of KIX's opening in 2024. Through a boat tour around KIX and a hands-on release of Epinephelus akaara, participants deepened their understanding of Osaka Bay's biodiversity, the fishing industry, and environmental conservation activities at KIX.





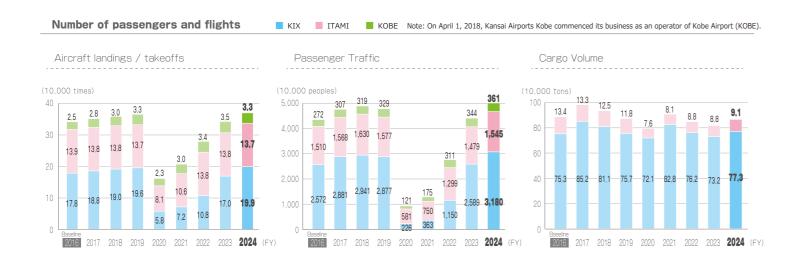
Outreach classes for local elementary schools

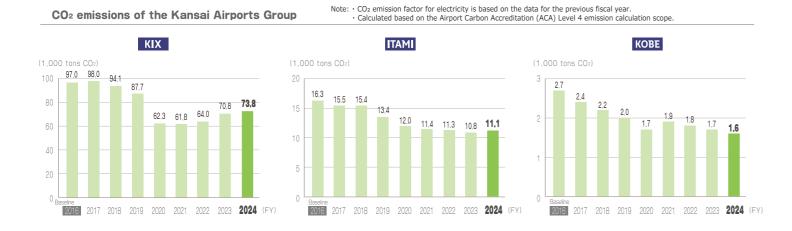
Kansai Airports and Hannan City have been working together to create a rich marine environment. As part of educating the next generations to improve the marine environment, which is one of the Osaka Bay Forest (Seaweed Beds) Conservation and Restoration Project, we conduct outreach classes at local elementary schools. Through this project, we promote the importance of biodiversity by introducing our efforts to conserve seaweed beds in KIX and to create habitats for marine organisms in Osaka Bay.

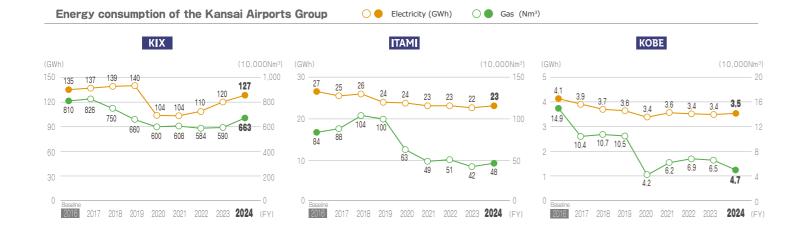
In FY2024, outreach classes were held at two elementary schools for a total of approximately 70 students. We will continue our local environmental education activities in collaboration with Hannan City.



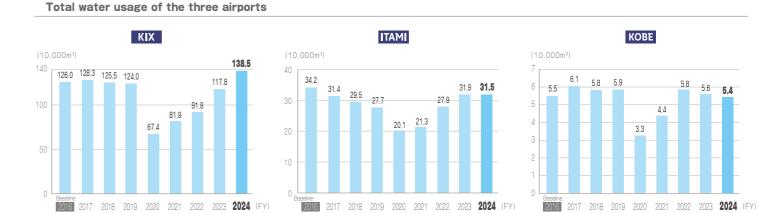
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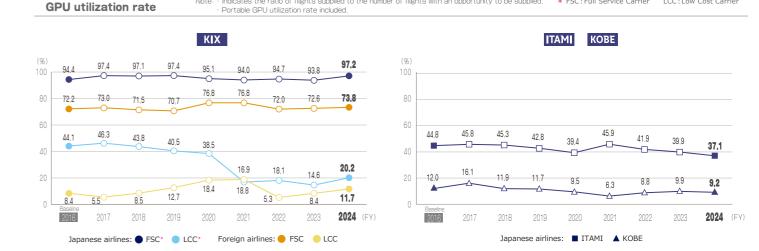












These 37 airlines below(in alphabetical order), have a GPU utilization rate of over 95% in 2024.

- · Air Canada
- · Air China
- · Air China Cargo
- · Air France
- · Air Hona Kona
- · Amakusa Airlines
- · China Southern Airlines
- · Earo Logic
- Emirates

· Etihad Airways

· FedEx Express

· Hawaiian Airlines

· Hebel Airlines

· HK Express

· Eva Airways

Finnair

- · Japan Airlines
 - · JAPAN AIR COMMUTER
 - · Japan Transocean Air
 - · KLM Royal Dutch Airlines
 - · Lufthansa Cargo AG
 - · Lufthansa German Airlines
 - · Malaysia Airlines · Philippine Airlines
- · Qatar Airways

Note: Indicates the ratio of flights supplied to the number of flights with an opportunity to be supplied. * FSC: Full Service Carrier LCC: Low Cost Carrier

- · Qatar Airways Cargo
- · Qingdao Airlines
- · Shanghai Airlines
- · Shenzhen Airlines · Sichuan Airlines ·Silk Way West Airlines

·Thai Airways International

- · Vietnam Airlines · Xiamen Airlines

Turkish Airlines

· United Airlines

· United Parcel Service



199,000 times [FY2024 track record]

Aircraft Parking Stands

104

Operating Hours

24 hours

Annual passenger traffic

3,180 10,000 people [FY2024 track record]

Phase 1 International

Cargo Area

510 ha 545 ha

[Phase 2 Island]

KIX Sora×Solar

A new solar power facility will be installed in 2025. The solar power generated will be used in the airport terminals, train stations, and parking lots.

Parking Lots

Domestic Cargo Area

Hydrogen stations

Hydrogen stations have been installed at two locations for fuel-cell vehicles and industrial



EV charging stations

EV charging stations are available to meet the growing demand of eco-friendly vehicles.

Heat supply plant

The plant serves as a community heating and cooling system that centrally supplies cold water and steam.



LED aviation

The conversion of

aviation lighting to LEDs

is underway to a full upgrade by FY2030.

lighting

Sewage **Treatment Center**

Wastewater from each facility is treated onsite and reused as reclaimed water.



Terminal 2 KIX Sora × Solar

KIX Sky Park Parking Lots **Fuel Facility** 7(4)

Runway B (4,000m)

8 Runway A (3,500m)

Environmental Facilities and Equipment

KIX Megasolar

Phase 2 International

Cargo Area



The gently sloping rubble mound seawall surrounding the airport island fosters the growth of seaweed, providing a habitat for sea life.





Rooftop of Terminal 2 Building Solar panels

The electricity generated on the roof of the Terminal 2 building is consumed on site.



KIX Megasolar

A mega solar power plant capable of generating 11.6 MW of power.

Environmental Center

Introduces environmental information and initiatives at the Sky View Observation Hall.

Website: www.kansai-airport.or.ip 3 9 40





Aircraft Parking Stands **52**

Annual passenger traffic 1,545 10,000 people

[FY2024 track record]

Size

311_{ha}



4 EV charging stations

EV charging stations are available to meet the growing demand of eco-friendly vehicles. We have installed 184 electric vehicle charging stations in the North and South Parking Structures.

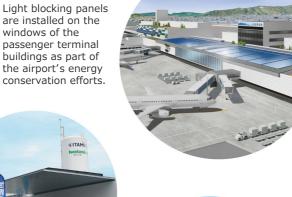


Light blocking

panels

Hydrogen station A station serves

fuel-cell vehicles.



LED aviation lighting

ITAMI

Sora×Solar

A new solar power

installed in 2025.

facility will be

The conversion of aviation lighting to LEDs is underway to a full upgrade by FY2030.

Rainwater harvesting tank (rooftop)

Rainwater is collected and used to water the rooftop plants.





EV charging

EV charging stations are available to meet

the growing demand

stations

of eco-friendly

vehicles.

Runways

Annual aircraft landings/takeoffs

33,000 times

Operating Hours 7-23 hours

Aircraft Parking Stands

10

Annual passenger traffic

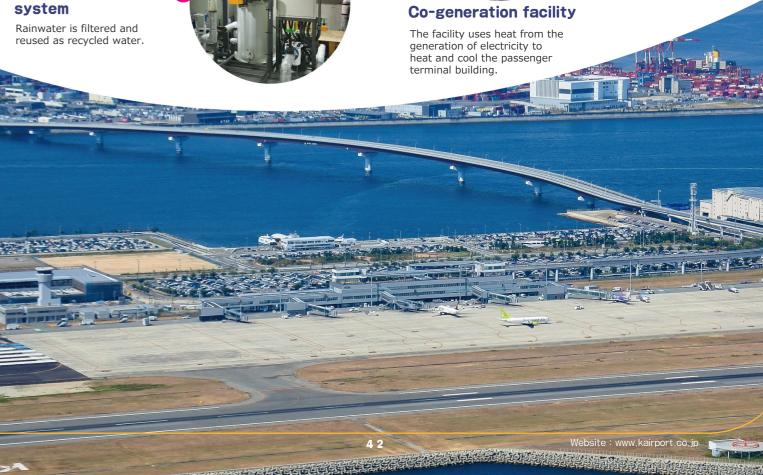
361 10,000 people [FY2024 track record]

Size

156_{ha}

Rainwater filtration







Environmental Chronology

KIX	: Kan	sai International Airport (1/3)
Year	Mo.	Event
1968	4	Ministry of Transport (MOT) launches basic study for airport siting
1071	10	Minister of Transport asks Council for Civil Aviation for advice on scale/siting for Kansai International Airport
1971	11	MOT conducts trial flights to study noise levels at 3 candidate sites (Senshu, Kobe, Akashi)
1972	8	Council for Civil Aviation (Kansai International Airport committee) conducts hearings with local communities
1973	8	MOT surveys 3 candidate sites commercial aircraft air pollution
1974	8	Council for Civil Aviation reports initial findings to Minister of Transport: Optimal airport location is off coast of Senshu
1975	9	MOT convenes series of briefings in communities
1976	9	MOT announces Survey Implementation Guidelines
1977	10	Marine observation facilities completed
1070	2	MOT announces plans for noise, vibration, and air pollution studies, starts site studies
1978	3	MOT begins bore studies near candidate sites
1979	5	MOT conducts flight studies with aircraft
1981	5	MOT presents three reports: Airport Proposal, Environmental Impact Assessment, and Approaches to Regional Infrastructure
1983	12	MOT begins ground improvement testing off the coast of Senshu
1984	10	Kansai International Airport Co. (KIAC) established
	2	Kansai Int'l Airport Env. Monitoring Org. established (Osaka Pref. Governor, mayors of 9 cities, 4 towns currently)
1986	6	Environmental Impact Assessment submitted to governor of Osaka Prefecture
	12	Environmental Monitoring Plan adopted environmental monitoring begins
100	1	Permit obtained for land reclamation on public waters for Phase 1 construction. Phase 1 construction begins
1987	6	Construction begins on bridge linking mainland to airport begins, KIX Environmental General Center opens
1989	6	Phase 1 airport island seawall construction completed
	1	Phase 1 airport island construction areas completed
1001	3	Plan for Environmental Monitoring of KIX Construction/Operation adopted
1994	7	Kansai International Airport Environmental Center opens
	9	Kansai International Airport (KIX) opens for service (Sep 4). Monitoring begins: Aircraft noise, low-freq. air vibration
1995	8	Council for Civil Aviation releases Basic Approach to 7th Airport Preparatory 5-Year Plan (mid-term report)
1996	6	Kansai International Airport Land Development Co. (KALD) est., designated by Min. Transport as official land developer
1997	6	MOT releases "Comprehensive Initiatives relating to Flight Path Issues at KIX" paper
1000	10	Environmental Impact Assessment on Phase 2 Construction submitted
1998	12	New flight paths introduced. Environmental Monitoring Plan for aircraft noise, etc., reviewed, monitoring enhanced
	6	Environmental Monitoring Plan for Phase 2 Construction Project adopted
1999	7	Permit obtained for land reclamation on public waters, Phase 2 construction (start Jul 14. Silt protection sheets deployed
1999	11	KIX International Symposium marks the fifth anniversary of opening
	12	KALD acquires ISO 14001 certification for environmental management system
	1	KIAC establishes Environmental Management Committee
	4	KIX receives "Monument of the Millennium" award from American Society of Civil Engineers, as offshore airport
2001	6	KIAC adopts Environmental Management Plan (Eco-Island Plan)
	9	Placement begins for wave-dissipating blocks to support seaweed bed growth along Phase 2 seawall
	11	International Airport Symposium 2001 hosted, Phase 2 airport island seawall completed
	10	KIAC adopts Regulations Governing the Use of Waste Processing Facilities
2002	12	KIAC establishes Energy Conservation Committee KIAC releases first Fig. Island Report (2002 edition)
		KIAC releases first Eco-Island Report (2002 edition) Company Compa
2003	12	KIAC establishes KIX Customer Satisfaction Council
2004	9	International Airport Symposium 2004 hosted
200-	12	KIAC, KALD mount their first exhibit at "Eco-Products 2004" exhibition
2005	7	Kansai International Airport Environmental Center relocated to Kanku Observation Hall
2006	8	Kansai International Airport & Rinku Town designated by government as CNG vehicle model project areas
2007	1	KIAC awarded MITI Award at FY2006 Nat'l Energy-Efficiency Best Practices Conf., for IT-based air con system in passenger terminal
	5	JHFC hydrogen charging station for vehicles opens at KIX
	3	KIX Eco-Island Promotion Council launched KIX Environmental Plan adopted
2008	4	Windbreak fence completed for KIX rail system access bridge, use of pro-beam low-location lights begins
	5	Kanku Environmental Exhibition features KIX Environmental Plan
	6	First idling-prevention awareness campaign launched

KIX : Kansai International Airport (2/3)

KIX	· Man	sai international Airport (2/3)
Year	Mo.	Event
2008	7	First conference held to report on KIX Eco-Island Promotion Council environmental initiatives
	10	Study tour organized by KIX Eco-Island Promotion Council
2009	7	Trial use of truck-mounted ground power units (GPUs) begins
	11	KIX Science Classes held
	12	Exhibit at Eco-Products 2009 exhibition
2010	1	Partial changes to aircraft auxiliary power unit (APU) usage restrictions (use reduced from 30 to 15 min. before departure)
	9	Photovoltaic system installed for temperature-controlled building for medical products
2010	12	Exhibit at Eco-Products 2010 exhibition
	1	IATA Environment Stand display installed at KIX
	3	Rapid charger installed at KIX for electric vehicles
2011	7	Japan fully adopts digital terrestrial broadcasting; measures targeting signal interference
	9	Electricity-powered commercial shuttle vehicles introduced (two vehicles by fiscal year end)
	12	Exhibit at Eco-Products 2011 exhibition
	12	New Kansai International Airport Company (NKIAC) established
	4	Professor KIXeco quiz system launches at Environmental Center
	5	KIX wins judges' special award, Airports Council Int'l (ACI) Asia-Pacific 2011 Green Airports Recognition Awards
	6	Phase 2 airport island construction almost completed, land development work by KALD is completed
2012	7	Kansai International Airport and Osaka Itami Airport are merged
	8	KIX earns runner-up award in 2012 Osaka Environmental Awards for efforts to grow seaweed beds
	10	KIX Sky Park opens adjacent to Phase 2 Terminal Building, trial begins for hydrogen fuel-cell buses
	11	Olive tree planting ceremony along walking path for Phase 2, decision made to do KIX Megasolar project
	12	Exhibit at Eco-Products 2012 exhibition. Four regular chargers for electric vehicles installed in parkade
	2	Int'l Strategy Comprehensive Special Area expanded by Kansai Innovation to include KIX (green innovation theme)
		Smart Eco Logi Council holds ceremony for launch of 20 large CNG trucks in international freight zone
	3	• KIX Eco-Island Promotion Council changes name to KIX Smart Island Council
2013	4	KIX Smart Island Plan adopted
	8	Summer Vacation Family Eco Classes held
	10	East Asia Airport Alliance (EAAA) annual general meeting held. "Environmental Relay Declaration" adopted
	12	Exhibit at Eco-Products 2013 exhibition. Winter Vacation Family Eco Classes held
	1	KIX announces event for EAAA Environmental Relay
	2	KIX Megasolar starts generating electricity (largest photovoltaic system of any Asian airport)
2014	5	Hydrogen Grid Project launched
2014	6	Rapid charger installed for electric vehicles at open parking lot No.5, with 24-hour operations
	7	• "Megasolar Observatory" and "Visualization Monitor" start operating
	′	• Small wind turbine power generator installed—a first for any Japanese airport
	2	Trial operations launched for first fuel-cell forklift at any airport in Asia, plus demonstration trial of hydrogen grid
	8	Megasolar system starts operating on roof of air freight warehouse in the International Cargo Area at 1st Island
2015	9	Megasolar system starts operating on roof of air freight warehouse in international freight zone
	10	Exhibit at Biwako Environmental Business Exhibition 2015
	12	Awarded the FY2015 Environment Minister's Award for Global Warming Prevention Activities
		Exhibit at Eco-Products 2015 exhibition
	1	Largest hydrogen station at an airport in Asia opens
	3	Awarded 2015 Kansai Eco Office Grand Prize from Union of Kansai Governments Two new model fuel-cell forklifts added for demonstration trials
	4	Kansai Airports begins operating Kansai International Airport Four more regular chargers installed for electric vehicles in parkade
2016		Environmental initiatives introduced at Fifth Fukeko Festival
	6	Potato harvest event at KIX Sora Farm promotes environmental education
		KIX Smart Island Exhibit in passenger terminal
	8	KIX Family Eco-Classes: Hydrogen/Magnesium Air Fuel Cells
	12	Airport Carbon Accreditation (ACA) Level 2 obtained, a first for airports in Japan
		Exhibit at 2016 EcoPro International Exhibition on Environment and Energy The state of
	1	Terminal 2 opens (international flights)
	4	Large hydrogen filling station for industrial vehicles opens, a first in Japan
	5	Conducts trial operations of fuel-cell bus at Kanku Tabihaku 2017 and to the Terminal 2 building
2017	6	Hosted Smart Island Environmental Exhibition Held KIX Eco Class at KIX Sky Farm
		Held idling stop campaign
	8	Held KIX Science Class
	12	Exhibited at 2017 EcoPro International Exhibition on Environment and Energy

Environmental Chronology

KIX : Kansai International Airport (3/3)

VIV	· Man	Kalisal International Aliport (3/3)		
Year	Mo.	Event		
2018	2	Introduces additional two fuel-cell forklifts		
	4	Establishes new environmental plan called One Eco-Airport Plan		
	9	Keynote and exhibit at the six World Smart Energy Week Osaka Show		
	10	Hosts the tenth ACI Asia-Pacific Regional Environment Committee		
	12	Airport Carbon Accreditation (ACA) Level 3 obtained Exhibit at 2018 EcoPro International Exhibition on Environment and Energy Holds the Fuel-Cell Bus Trial Ride in KIX		
2019	2	With additional four fuel-cell forklifts introduced, seven fuel-cell forklifts in total		
2019	9	With additional FCV introduced, three FCV in total		
	1	Solar panels on the rooftop of the Terminal 2 building were installed and energy generation started		
2020	2	An additional 15 fuel-cell forklifts introduced meant 22 fuel-cell forklifts in total		
2020	3	Trial operation of the electrical ground power unit (eGPU) got underway		
	4	Plastic shopping bags used in shops directly managed by the Kansai Airports Group are replaced with paper bags		
	3	Set a long-term goal of net-zero greenhouse gas emissions		
2021	7	 Started T2 smart airspace demonstration experiment Selected as a "Priority Survey Airport" by the Civil Aviation Bureau of the Ministry of Land, Infrastructure, Transport and Tourism with the aim of making the airport carbon-neutral 		
	11	Airport Carbon Accreditation (ACA) Level 4 obtained		
	3	Introduced a new fuel-cell bus		
	4	Established Environmental Standards Regulations at KIX		
2022	6	A partnership agreed with Airbus to capitalize on hydrogen in the Japanese aviation industry Concluded the basic agreement on the mass production of International SAF (Sustainable Aviation Fuel)		
	10	Joined the 30by30 Alliance for Biodiversity		
	12	Obtained and issued J Blue Credit		
	2	Registered the seaweed bed initiatives for Co-Creation Challenges of the TEAM EXPO 2025 program		
	3	Formulated the Environmental Plan, "Environmental Vision 2050 and Environmental Goals 2030"		
2023	4	Received the 2022 Osaka Prize for Climate Change Measures		
	7	Installation of collection boxes for horizontal recycling of PET bottles		
	10	Certified for seaweed beds on the seawall at KIX Island as a "Natural Symbiosis site"		
2024	5	Platinum recognition awarded (for creating a rich seaweed bed and blue carbon) at the Green Airports Recognition 2024 hosted by ACI Asia Pacific & Middle East		
2024	10	Announced the signing of a memorandum of understanding with Airbus and Kawasaki Heavy Industries to conduct a feasibility study on hydrogen infrastructure development.		
	2	Start of electricity supply from the solar power generation system Sora×Solar®		
2025	4	Platinum recognition awarded (for the SAF project) at the Green Airports Recognition 2025 hosted by ACI Asia Pacific & Middle East		
2023	5	First supply of domestically produced SAF to passenger flights		
	7	Introduction of a hydrogen-powered fuel-cell minibus		

ITAMI : Osaka Itami Airport (1/2)

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Year	Mo.	Event	
1939	1	Opened as No. 2 Osaka Airport	
1958	3	Complete return of airport from U.S. forces to Japan. Renamed "Osaka Airport" by the Ministry of Transport (runway was 1,828 m long)	
1959	7	Designated a class 1 airport under Civil Airport Development Law, renamed "Osaka Itami Airport"	
1960	4	International flights begin	
1964	6	Passenger jet service begins	
1969	1	Construction of terminal building completed	
1970	2	Additional runway (3,000 m) opens and airport takes its present form	
1975	12	Abolished domestic line operation between 9:00 pm to 7:00 am the following morning	
1976	7	Abolished international line operation between 9:00 pm to 7:00 am the following morning	
1977	10	Limited on aircraft movements for regularly scheduled flights of 370 movements per day (200 for jets)	
1990	12	MOT concludes the agreement with local municipalities (11 cities) and local groups (mediation group) on the airport continuation	
1994	9	International flights shift to newly opened Kansai International Airport	
1997	4	Osaka Monorail starts operation	
1999	7	Former international terminal building is renovated and opens as South Terminal	
2002	6	Erected noise barrier at the engine testing site	
2004	3	Established the Osaka Itami Airport's Eco Airport Council	
2006	4	Switched from 24-hour operations to 14-hour operations (7:00am to 9:00pm)	
2010	4	Began examining ways of reducing amount of grass clippings incinerated as waste (recycling as fertilizer and feed)	
	4	New Kansai International Airport Company established	
2012	7	Management of Osaka Itami Airport and Kansai International Airport is integrated	
	10	Successfully produces fertilizer made of grass clippings from the airport's landing strips	
2013	3	Introduced landing fee system based on actual noise level	

ITAMI : Osaka Itami Airport (2/2)

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Year	Mo.	Event
	2	Received 7th Toyonaka Eco Citizen Award 2013 (for recycling grass clippings as fertilizer and feed)
2014	9	Received the Grand Prize at the 2014 Osaka Environmental Awards (for recycling grass clippings as fertilizer and feed)
	10	Receives the Chairman's Prize at the 2014 Reduce, Reuse, Recycle Promotion Merit Awards (for recycling grass clippings as fertilizer and feed)
	4	Kansai Airports begins operating Osaka Itami Airport and Kansai International Airport
2016	12	Airport Carbon Accreditation (ACA) Level 2 obtained, a first for airports in Japan Exhibit at 2016 EcoPro International Exhibition on Environment and Energy
	5	Constructs warehouse for storing grass clipping feed
2017	6	Holds idling stop campaign
	12	Exhibits at 2017 EcoPro International Exhibition on Environment and Energy
	3	 Receives Silver at ACI Asia-Pacific Green Airports Recognition 2018 (for recycling grass clippings as feed) AIP defines the auxiliary power unit (APU) usage restrictions
2018	4	Installed light-blocking panels and rooftop greenery in the terminal building Establishes new environmental plan called One Eco-Airport Plan
	8	Presents ITAMI environmental action in INTER-NOISE 2018
	12	Upgrades to Airport Carbon Accreditation (ACA) Level 3 obtained Exhibit at 2018 EcoPro International Exhibition on Environment and Energy
	3	Fuel-cell vehicle introduced for the first time
2010	4	Iwatani Hydrogen Refueling Station in Osaka Itami Airport opens in the airport
2019	6	ITAMI environmental measures are presented in INTER-NOISE 2019
	10	One rapid charger is installed
2020	4	Plastic shopping bags used in shops directly managed by the Kansai Airports Group are replaced with paper bags
	3	Set a long-term goal of net-zero greenhouse gas emissions
2021	7	Selected as a "Priority Survey Airport" by the Civil Aviation Bureau of the Ministry of Land, Infrastructure, Transport and Tourism with the aim of making the airport carbon-neutral.
	11	Airport Carbon Accreditation (ACA) Level 4 obtained
	4	Established Environmental Standards Regulations at ITAMI
2022	6	A partnership agreed with Airbus to capitalize on hydrogen in the Japanese aviation industry A basic agreement on cooperation concluded to commercialize Sustainable Aviation Fuel (SAF)
	8	Presented ITAMI's instantaneous display system of aircraft noise level and ITAMI environmental action in INTER-NOISE2022
2022	3	Formulated the Environmental Plan, "Environmental Vision 2050 and Environmental Goals 2030"
2023	8	Introduced the largest EV charging outlets in Japan (for 184 stations)
	3	Commenced an EV charging service, "WeCharge"
2024	10	Announced the signing of a memorandum of understanding with Airbus and Kawasaki Heavy Industries to conduct a feasibility study on hydrogen infrastructure development.
2025	2	Start of electricity supply from the solar power generation system Sora×Solar®
2025	5	Lounge Osaka became the first airport lounge facility to receive Eco Mark certification

KOBE: Kobe Airport

Year	Mo.	Event
2006	2	Open Kobe Airport
	4	Kansai Airports Kobe begins operating Kobe Airport Establishes new environmental plan called One Eco-Airport Plan
2018	12	 Upgrades to Airport Carbon Accreditation (ACA) Level 2 obtained Exhibit at 2018 EcoPro International Exhibition on Environment and Energy
	2	Established the Kobe Airport Environmental Promotion Council
2019	4	AIP defines the auxiliary power unit (APU) usage restrictions
	5	The limit on aircraft movements for regularly scheduled flights is expanded to 80 movements per day
2020	3	Operating hours extended to 16 hours between 7:00 am and 11:00 pm
2020	4	Plastic shopping bags used in shops directly managed by the Kansai Airports Group are replaced with paper bags
	3	Set a long-term goal of net-zero greenhouse gas emissions
2021	7	Selected as a "Priority Survey Airport" by the Civil Aviation Bureau of the Ministry of Land, Infrastructure, Transport and Tourism with the aim of making the airport carbon-neutral.
	11	Airport Carbon Accreditation (ACA) Level 4 obtained
	4	Established Environmental Standards Regulations at KOBE
2022	6	 A partnership agreed with Airbus to capitalize on hydrogen in the Japanese aviation industry A basic agreement on cooperation concluded to commercialize Sustainable Aviation Fuel (SAF)
2023	3	Formulated the Environmental Plan, "Environmental Vision 2050 and Environmental Goals 2030"
	6	Signed an agreement to promote cooking oil collection in Kobe City towards a sustainable society
2024	10	Announced the signing of a memorandum of understanding with Airbus and Kawasaki Heavy Industries to conduct a feasibility study on hydrogen infrastructure development.
2025	6	Launch of a demonstration project for perovskite solar cells in collaboration with Kobe City and Sekisui Chemical

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