Sustainable Airport
Activity Highlights

Toward achievement of “Sustainable NRT 2050,” we are committed to combating climate change, environmental measures for local communities, and resource recycling. Here are some of our activities to reduce the environmental impact of airport operations.

Reduce energy consumption with LEDs
At Narita International Airport, huge number of lightings are used such as taxiway lights and those in passenger terminals. Currently, in consideration of convenience, running costs, and the environmental aspect, we are switching to light-emitting diode (LED) light bulbs.

SAF Dramatically lowers CO2 Emissions
At Narita, where aircraft emissions account for 70% of the airport’s total carbon emissions, industry-wide initiatives are required. We proactively carry out measures to reduce CO2 emissions and become a sustainable airport.

Integration of Sustainable Aviation Fuel
Narita International Airport has incorporated sustainable aviation fuel (SAF) into its operation with existing fueling facilities since October 2020. In the first half of 2022, ground facilities for loading SAF were completed based on “Sustainable NRT 2050” initiatives. Since the new facilities accept even small amounts of SAF produced in feasibility studies, SAF manufactured in Japan was transported to Narita Airport in September 2022. This was the first case in which domestically produced SAF for demonstration purposes was supplied to aircraft with an airport hydrant system.

Reduce CO2 emissions from aircraft

Solve staff shortages and cut emissions with autonomous buses
Self-driving buses are all-electric vehicles mounted with electric motors instead of gasoline engines. The introduction of low-emission vehicles will contribute to achieving the goals set in “Sustainable NRT 2050.”

Demonstration Experiment of an Autonomous Bus
To introduce autonomous driving technology, NAA carried out demonstration experiments* in an airport restricted area by using the local 5G network as the first airport in Japan. Through this measure, we aim to solve staff shortages and reduce the risk of car accidents caused by human error.

Use local produce transported on mixed trains

Joint Feasibility Experiment by Three Parties
In March 2022, a demonstration experiment was conducted in which locally grown vegetables were transported on a passenger train and served in an airport restaurant. Three entities were involved in this project; Keisei Electric Railway Co., Ltd., a restaurant operator (Iwore Keisei), and a non-profit organization (“Chiba Veggie”).

Transportation of Local Produce on Mixed Trains
Once a week, Chiba Veggie loads locally grown vegetables including subsidiary produce onto trains at Keisei-Sakura Station. Keisei Electric Railway carries the vegetables to the airport on passenger trains. This initiative promotes local food production and consumption and cuts emissions by replacing truck delivery with rail transport.

Menu Development with Imperfect Produce
A Japanese restaurant in Terminal 1, KEISEI YUZEN, developed a menu with the transported produce and served the produce in limited numbers. The utilization of substained vegetables reduced food waste and was well received by customers.

Reduce noise and CO2 emissions from parked aircraft

GPU Usage Cuts Carbon Emissions to 1/15
We encourage airlines to use Ground Power Units (GPUs) for providing electricity and air conditioning to parked aircraft. GPU usage produces only one five hundredth of the emissions generated from APU (Auxiliary Power Units) operation, and reduces noise as well.

A WORD FROM OUR STAFF
Promoting SDGs with colorful vegetables

HORI Kiyoshi
DI Development and Planning, DI Development and Planning Department, NAA
In the demonstration experiment, airport staff were invited to ride on an electric self-driving bus to experience the feeling. We will continue our tests toward the introduction of eco-friendly driverless buses.

A WORD FROM OUR STAFF

IWAI Hironori
KEISEI YUZEN, name Keisei
We started this project to help support the SDGs (United Nations Sustainable Development Goals). The local products supplied by Chiba Veggie are fresh and delicious. The menu was developed to make the best use of their flavor and color.
Sustainable Airport
Activity Highlights

Establishing Flight Corridors
To minimize the area impacted by aircraft noise, flight corridors before landing and after takeoff have been established. Aircraft are urged not to deviate from these corridors.

Eliminate Disposable Plastic Products for 100% Sustainability
In our Narita Airport Plastic Smart initiatives, we aim to switch all disposable plastic products distributed at NAA-managed stores and lounges to sustainable ones by fiscal 2025.

Resource recycling
3Rs of Waste
To reduce the environmental impact, the 3Rs (Reduce, Reuse, and Recycle) are encouraged when handling waste produced by airport operations.

Address the plastic waste problem

Reduce waste by recycling

Use the Grass Cuttings as Feed
The green spaces around the runways are mowed several times a year, generating 3,300 tonnes of grass cuttings in fiscal 2021. The grass cuttings are given to farmers around the airport, and some of them are used effectively as feed.

A WORD FROM OUR STAFF
Uniform recycling to help the environment
MAEKAWA Tomomi
Operations Division, Operations Department
NAA Retailing Corporation
I expect that uniform recycling will help reduce C02 emissions and provide a solution to environmental problems and natural disasters. Now that addressing environmental issues is an urgent task, I feel it necessary to always look for what we can do.

A WORD FROM OUR STAFF
To increase the recycling rate of waste
KAJIYAMA Daiji (left)
Architecture, Facilities Management Department, NAA
FUTAGOSHI Risa (right)
Construction Management Section, Construction Operations Department
AIRPORT MAINTENANCE SERVICE CORPORATION
We achieved the recycling of our construction waste, checking related legal issues carefully. The recycled carpet tiles are equivalent to conventional tiles in terms of price and construction, bearing comparison with appearance and usability. Starting with this approach, we aim to recycle more waste material.

Material Recycling of Unnecessary Uniforms
NAA Retailing Corporation recycles textiles of used uniforms into car sound deadening materials. Now, only 11.7% of the fabric is discarded, cutting emissions by 92.4%.

Horizontal Recycling for a Circular Economy
Interior construction at the airport generates large amounts of used carpet tiles. We outsource the recycling of the tiles to a material recycling manufacturer. For CO2 reduction and effective use of resources, we utilize the recycled carpet tiles, realizing horizontal recycling for a circular economy.

Reduce by recycling

Recycle used uniforms and carpet tiles

Waste Less, Save More
We promote the recycling of used uniforms and carpet tiles generated from airport renovation work.

Sustainable Private-Label Product and Packaging Materials
*Kusu* (sky water)* is a private branded product of Greenport Agency Co., Ltd. (GPA). The PET plastic bottle and cap are made with 30% bioplastic, with thinner labels printed in biomass ink. As for NAA calendars, the wrapping material was switched to paper from plastic.

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Activity Highlights

Effective Use of Cut Trees
The functionality enhancement at Narita Airport is estimated to require the clearing of 150,000 tonnes of trees. We upcycled some of them into meeting desks and airport stanchions to utilize our precious resources.

Public Relations Activities through Various Media
We disseminate information on the environmental measures taken at Narita Airport and the results in various media. Our environmental reports are posted on the NAA website, distributed to airport-related business entities and local residents, and sent to libraries and universities throughout the nation. They are also registered on a free distribution site that features corporate publications.

Lectures and Career Education for Students
For better understanding of the role of Narita Airport and its environmental initiatives, we offer lectures to junior high school students around the airport. The presentation sessions are organized by Narita Airport Regional Symbiosis Promotion Foundation, and we introduce our recycling activities, initiatives for decarbonization, and countermeasures against aircraft noise.

Promoting Interaction with Local Residents
The South Area Consultation Center was relocated inside an airport spa resort and given a new nickname the “Soranai Narita Airport Community Lounge.” Desks and partitions in the space are made from eco-friendly logged timber.

A WORD FROM OUR STAFF
For coexistence and coprosperity with local residents

SATO Masashi
Southern Community Center
Community and Environmental Affairs Department, NAA

Relocation of the Center to a more accessible site has promoted our interaction with local residents. For our coexistence and coprosperity, it is important to be supportive and build trust with the communities. I believe that the Center will play a more significant role in that aspect.

According to the Greening Master Plan for Narita Airport and Environments, we develop green areas in consideration of vegetation, aesthetic value, and unique topographical features.

Greening Projects

1. Satoyama (Countryside Forest) Development
2. Development of Drainage Ways and Waterside Environments
3. Narita Sakura no Yama (Cherry Blossom Mountain)
4. Shibayama Mizube no Sato (Waterside Park)
5. Asakura Yosuragi no Mori (Tranquil Forest)
6. Greenport Eco-Agripark
7. Sanrizuka Sakura no Oka (Cherry Blossom Hill)
8. Minami Sanrizuka Nature Trail
9. Toyomi Shinonomono no Oka (Hill of Dawn)

Natural Environmental Conservation for Our Precious Flora and Fauna
Regarding the environmental impact on functionality enhancement at Narita Airport, we conducted an assessment based on the Environmental Impact Assessment Law. Our Environmental Impact Statement was published with its results and protection measures to remedy the effects included. According to the statement, we launched a series of conservation measures such as precious wildlife restoration, transplanting, and other compensatory measures. The capture and ex-situ conservation of Japanese pond turtles and Japanese fire belly newts has been conducted.

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Natural Parkland Development
Greenport Eco-Agripark is a pristine natural adventure park on a 17.6-hectare tract of NAA land that adjoins Shibayama Mizube no Sato Waterside Park, south of the airport (in the Iwagami district of Shibayama). Opened in 2007, it has a variety of geographical features including low hills and valleys (yatsus), which are typical of the Hokusou region. The Park is home to many species of insects and has a rich diversity of plants and animals. Our aim is to restore the satoyama landscape, and to protect an environment rich in biodiversity.