

Environmental Initiatives and Evaluation of FY 2021 Results



Community Environment Initiatives

*1 Quieter aircraft: Aircraft classified as Class A to C according to the Narita Aircraft Noise Index.
 *2 Low-emission vehicles: Electric, hybrid, plug-in hybrid, natural gas, fuel cell, clean diesel, and low fuel consumption, low-emission certified vehicles (gasoline, diesel, and LPG [liquefied petroleum gas])

Targets	Initiatives	Results (FY 2021)	
Reduce environmental impact from aircraft noise	<ul style="list-style-type: none"> Encourage the introduction of quieter aircraft^{*1} Limit the use of auxiliary power units (APUs) and encourage the use of ground power units (GPUs) 	<ul style="list-style-type: none"> Strengthen noise mitigation measures Enhance aircraft noise monitoring and disclosure of results 	<ul style="list-style-type: none"> The introduction rate of quieter aircraft was 93.8%, an increase of 2.3% from FY 2020
Conserve air quality	<ul style="list-style-type: none"> Encourage the introduction of low-emission aircraft Implement measures to reduce aircraft taxiing times Limit the use of APUs and encourage the use of GPUs 	<ul style="list-style-type: none"> Promote energy saving at airport-related facilities Encourage the introduction of low-emission vehicles^{*2} Enhance air quality monitoring in the vicinity of the airport and disclosure of results 	<ul style="list-style-type: none"> Air pollutant (NOx) output: Decreased by 7.2% compared to FY 2020 levels (19.1 kg/flight)
Maintain water quality of rainwater runoff	<ul style="list-style-type: none"> Properly use, collect, and process deicing agent Take measures to prevent the release of turbid water, etc. Create retention areas and settling grit chambers in construction areas during construction to prevent the release of turbid water 	<ul style="list-style-type: none"> Divide construction zones to limit the occurrence of turbid water Enhance water quality monitoring in rivers, etc., in the vicinity of the airport and disclosure of results 	<ul style="list-style-type: none"> Some fluctuation, but maintaining water quality of an average year
Conserve natural environments that nurture biodiversity	<ul style="list-style-type: none"> Ascertain the status of the natural environment and take preservation measures for rare species Preserve agricultural environments 	<ul style="list-style-type: none"> Restore the <i>satoiyama</i> (countryside forest) landscape Preserve the Greenport Eco-Agripark and use it for educational programs, etc. 	<ul style="list-style-type: none"> Suitable management of greening projects in the airport area Greenport Eco-Agripark preservation and use
Implement and reinforce environmental initiatives in collaboration with local communities	<ul style="list-style-type: none"> Use noise control areas tailored to local conditions 	<ul style="list-style-type: none"> Encourage environmental conservation initiatives in collaboration with local communities 	<ul style="list-style-type: none"> Suitable management of land vacated by relocation and leasing of agricultural land



Resource Recycling Initiatives

Targets	Initiatives	Results (FY 2021)	
Recycle resources	<ul style="list-style-type: none"> Reduce general waste and encourage recycling at airport-related facilities Encourage recycling of industrial waste (packaging material, wooden skids, etc.) Encourage measures to reduce aircraft cabin waste 	<ul style="list-style-type: none"> Conduct activities to raise awareness among passengers, employees, and other airport users Recycle concrete and asphalt waste material generated by the airport Take measures for the effective use of grass clippings, cut trees, etc. Encourage green procurement 	<ul style="list-style-type: none"> General waste incinerated: Decreased by 19.2% compared to FY 2020 levels (0.42 kg/airport user)
Recycle water resources	<ul style="list-style-type: none"> Implement potable water saving measures based on analysis of water usage conditions by building and by season Encourage the installation of water-saving equipment when facilities are updated 	<ul style="list-style-type: none"> Reduce potable water usage by utilizing grey water Conduct activities to raise awareness among passengers, employees, and other airport users 	<ul style="list-style-type: none"> Potable water usage: Decreased by 26.4% compared to FY 2020 levels (64.0 L/airport user)



Climate Change Initiatives

Targets	Initiatives	Results (FY 2021)	
Reduce CO ₂ emissions from the airport	<ul style="list-style-type: none"> Encourage the introduction of low-emission aircraft Implement measures to reduce aircraft taxiing times Limit the use of auxiliary power units (APUs) and encourage the use of ground power units (GPUs) Take measures toward the introduction of next-generation aviation fuels Encourage travel to the airport in low-emission vehicles (install EV charging stations, natural gas and hydrogen stations) Encourage the introduction of low-emission vehicles and eco-driving Generate electricity when incinerating waste through energy recovery 	<ul style="list-style-type: none"> Select low-carbon electric power sources when purchasing electric power Encourage the introduction of renewable energy Increase installation of LED lights on taxiways Encourage energy-saving measures through energy management Conduct energy conservation programs (raise awareness of energy conservation, "COOL BIZ" and "WARM BIZ") Encourage installation of energy-saving equipment when constructing new facilities and renovating existing facilities 	<ul style="list-style-type: none"> Airport CO₂ emissions: Decreased by 10.9% compared to FY 2020 levels (4.99 tCO₂e/flight)



Environment Management

Targets	Initiatives	Results (FY 2021)	
Engage in dialogue with stakeholders	<ul style="list-style-type: none"> Promote dialogue with stakeholders Implement environmental conservation programs centered on the Eco-Airport Development and Planning Council Conduct environmental education and awareness activities for airport staff 	<ul style="list-style-type: none"> Publicly release environmental information such as noise, air quality, and water quality measurement results and flight routes Give presentations at environment-related conferences on noise, air quality, and other topics Conduct Touring Environmental Classrooms and seminars at universities 	<ul style="list-style-type: none"> Held interactive dialogue with airport-related business entities through the Eco-Airport Development and Planning Council Conducted activities to raise awareness among passengers, employees, and other airport users through various events organized by the Council Conduct lectures at universities, elementary and junior high schools in local municipalities, and for career education
Pursue the creation of value by taking measures with stakeholders to reduce the environmental impact of airport activities throughout society as a whole	<ul style="list-style-type: none"> Encourage activities to reduce environmental impact in collaboration with stakeholders 	<ul style="list-style-type: none"> Encourage procurement that takes the environment into consideration 	<ul style="list-style-type: none"> Promoted green procurement at the Council
Reduce environmental impact in collaboration with airports in Japan and abroad	<ul style="list-style-type: none"> Encourage information exchanges and joint environmental conservation activities through liaison conferences with other leading airports in Japan 	<ul style="list-style-type: none"> Exchange information with and express opinions to the Airports Council International (ACI) Exchange information with and provide technology to overseas airports 	<ul style="list-style-type: none"> Exchanged information through ACI activities
Environmental conservation through environmental assessments and verification	<ul style="list-style-type: none"> Conduct environmental assessments based on the Environmental Impact Assessment Act toward improvement of airport functionalities 	<ul style="list-style-type: none"> Conduct voluntary environmental assessments 	<ul style="list-style-type: none"> Implemented protection measures based on the Environmental Impact Statement Conducted voluntary environmental assessment monitoring
Conduct environment management using environmental certification programs	<ul style="list-style-type: none"> Encourage environment management using environmental certification programs 		<ul style="list-style-type: none"> Maintained <i>Airport Carbon Accreditation</i> Level 3 and promoted environment management using the program's methods