

November 15, 2023

Solar power generation facility "KIX-ITAMI Sora x Solar" to be born!

New solar power generation starts at Kansai International Airport and Osaka International Airport!

Kansai Airports Group is pleased to announce that a new solar power generation facility " KIX-ITAMI Sora x Solar^{*1}," will start generating and supplying power at Kansai International Airport and Osaka International Airport from spring 2025.

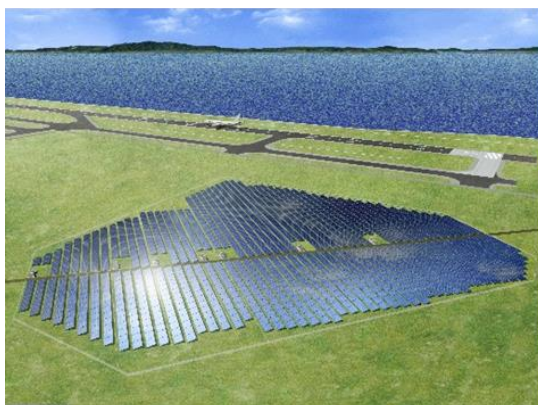
The project will employ an on-site PPA^{*2} scheme, and the power generated will be consumed within each airport. The annual power generation at each airport is expected to account for approximately 21% of Kansai Airports Group's annual power consumption at Kansai International Airport and approximately 3% at Osaka International Airport, making this one of the largest on-site PPA projects in Japan. This is an important initiative for achieving our 2030 reduction target for greenhouse gas emissions (50% reduction from 2016 levels). In addition, the project is expected to reduce CO² emissions by approximately 12,000 tons in FY2025, equivalent to approximately 16% of the Kansai Airports Group's CO² emissions in FY2022.

This project is supported by the "FY2023 Subsidy for Airport Decarbonization Promotion Project (Equipment Installation Support)" from the Civil Aviation Bureau of the Ministry of Land, Infrastructure, Transport and Tourism.

Kansai Airports Group will make company-wide efforts to reduce environmental impact and contribute to realizing a sustainable society through the operation of airports, which are public infrastructure.

^{*1} Trademark registration in process

^{*2} On-site power purchase agreement (PPA) is a scheme whereby a power generator installs, owns, and maintains 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.



KIX Sora x Solar



ITAMI Sora x Solar

^{*}For illustration purpose only

About the solar power generation project

PPA operator: K Power Supply LLC (SPC 100% owned by ORIX Corporation)

Electric user: Kansai Airports Group

Start of operation: Spring 2025

	Existing facilities (Electricity sales)	Existing facilities (Self-consumption)	New facilities (Self-consumption in the airport)	
Airport	Kansai International Airport	Kansai International Airport	Kansai International Airport (KIX Sora Solar)	Osaka International Airport (ITAMI Sora Solar)
Panel location	3 locations such as unused land on the south side of Island 2, rooftop of the international cargo warehouse, etc.	Rooftop of the terminal 2 building and pharmaceutical warehouse	Unused land on the north side of Island 2 and rooftop of the international cargo warehouse	Rooftop of the terminal building
Space size	129,000 m ²	7,000 m ²	178,600 m ²	4,200 m ²
Power supply destination	Electricity sales	Terminal 2 building and pharmaceutical warehouse	Terminal 1 building, airport station and multi-story car parks, Aeroplaza, heat supply facilities, international cargo warehouse, clean centers	Terminal building
Power generation capacity	12.8 MWp	1.3 MWp	22.8 MWp	0.6 MWp
Electricity amount	13.2 GWh/year	1.34 GWh/year	22.8 GWh/year (FY2025 forecast)	0.6 GWh/year (FY2025 forecast)
Estimated CO ² reduction	Out of scope of calculation as it is not our owned business.	Approx. 580 t/year	Approx. 12,000 t/year	Approx. 270 t/year













Reference

Kansai Airports' Environmental Plan

Greenhouse gas emissions reduction targets

Environmental Goals 2030: 50% reduction from FY2016

Environmental Vision 2050: Net zero

Decarbonization	Circular economy	Environmental symbiosis
<div></div> <div>Vision for 2050</div> <ul style="list-style-type: none">■ Net zero greenhouse gas emissions in business activities of Kansai Airports Group■ Contribution to the reduction of greenhouse gas emissions for the entire airports, including airport-related businesses	<div></div> <div>Zero Waste Airport</div> <ul style="list-style-type: none">▷Thorough reduction, sorting and recycling▷Recycling rate: 100%	<div></div> <ul style="list-style-type: none">■ Ensuring a healthy living environment around the airports<ul style="list-style-type: none">▷Monitoring aircraft noise and the surrounding environment■ Symbiosis with nature<ul style="list-style-type: none">▷Efficient use of water resources▷Conservation of water and soil environments▷Contributing to ensuring a healthy ecosystem
<div>Goals for 2030</div> <ul style="list-style-type: none">■ Reduce greenhouse gas emissions by Kansai Airports Group by 50% from the FY2016 level <div>Major initiatives</div> <ul style="list-style-type: none"> Promotion of energy conservation Use of renewable energy and hydrogen promotion of the Zero Emission Vehicles introduction	<ul style="list-style-type: none">■ 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 <div>Major initiatives</div> <ul style="list-style-type: none"> Use of eco-friendly materials Reduction of plastics, conversion of materials and horizontal recycling Further reduction, sorting and recycling of combustible waste	<ul style="list-style-type: none">■ 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■ Reduce the clean water use by Kansai Airports Group by 15% from the FY2016 level■ Conservation of biodiversity <div>Major initiatives</div> <ul style="list-style-type: none"> Monitoring of aircraft noise and surrounding environment Active utilization of grey water (recycled water and rainwater) and enhanced water conservation operations Enhancement of the rich seaweed bed environment

Contact:

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Kansai Airports was established by a consortium made up of VINCI Airports and ORIX Corporation as its core members. Kansai Airports took over the operations of Kansai International Airport ("KIX") and Osaka International Airport ("ITAMI") from New Kansai International Airport Company ("NKIAC") and has been operating the two airports since April 1, 2016.

Kansai Airports Kobe, Kansai Airports' wholly-owned subsidiary, took over the operations of Kobe Airport ("KOBE") from Kobe City and started its business as an operating company on April 1, 2018.

Under the concept of "One Kansai Airports Group", Kansai Airports group strives to continuously improve its services for all airport guests through appropriate investments and efficient operations, with safety and security being the top priority. Kansai Airports group aims to maximize the potential of the three airports, for the benefit of the communities they serve.

For more information, please visit : <http://www.kansai-airports.co.jp/en/>

Kansai Airports

Location	1-banchi, Senshu-kuko kita, Izumisano-shi, Osaka	Shareholders	ORIX 40%, VINCI Airports 40%, Other investors 20% ¹
Company Representatives	Representative Director and CEO: Yoshiyuki Yamaya Representative Director and Co-CEO: Benoit Rulleau		
Business Scope	Operation and management services, etc. of Kansai International Airport and Osaka International Airport		

Kansai Airports Kobe

Location	1-ban, Kobe-kuko, Chuo-ku, Kobe-shi, Hyogo	Shareholder	Kansai Airports 100%
Company Representatives	Representative Director and CEO: Yoshiyuki Yamaya Representative Director and Co-CEO: Benoit Rulleau		
Business Scope	Operation and management services, etc. of Kobe Airport		



Established in 1964, ORIX Group has grown into a diverse corporate group active worldwide in financing and investment, life insurance, banking, asset management, real estate, concession, environment and energy, automobile-related services, industrial/ICT equipment, ships, and aircraft. ORIX operates in around 30 countries and regions with approximately 35,000 people. Its Purpose, "Finding Paths. Making Impacts." which defines why ORIX exists in our world. With this Purpose, ORIX will unite globally to help our world develop in a better way.

For more details, please visit our website: <https://www.orix.co.jp/grp/en/>



The world's leading private airport operator, VINCI Airports operates more than 70 airports in 13 countries. Thanks to its expertise as a global integrator, VINCI Airports develops, finances, builds and manages airports by providing its investment capacity and its know-how in optimizing operational performance, modernizing infrastructure and managing their operations and environmental transition. VINCI Airports is the first airport operator to have committed to an international environmental strategy in 2016, to achieve the goal of net zero emissions across its entire network by 2050.

For more details, please visit our website: www.vinci-airports.com

¹ ASICS Corporation; Iwatani Corporation; Osaka Gas Co., Ltd.; Obayashi Corporation; OMRON Corporation; The Kansai Electric Power Company, Incorporated; Kintetsu Group Holding Co., Ltd.; Keihan Holdings Co., Ltd.; Suntory Holdings Limited; JTB Corp.; Sekisui House, Ltd.; Daikin Industries, Ltd.; Daiwa House Industry Co., Ltd.; Takenaka Corporation; Nankai Electric Railway Co., Ltd.; NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION; Panasonic Holdings Corporation; Hankyu Hanshin Holdings, Inc.; Rengo Co., Ltd.; The Senshu Ikeda Bank, Ltd.; Kiyo Holdings, Inc.; The Bank of Kyoto, Ltd.; THE SHIGA BANK, LTD.; The Nanto Bank, Ltd.; Nippon Life Insurance Company; Mizuho Bank, Ltd.; Sumitomo Mitsui Trust Bank, Limited; MUFG Bank, Ltd.; Resona Bank, Limited; and the Private Finance Initiative Promotion Corporation of Japan.