Kansai Airports Group sets a long-term target aiming for net zero greenhouse gas emissions and a decarbonized society

Kansai Airports Group is pleased to announce that it has set a long-term target to reach net zero greenhouse gas emissions by 2050, as part of its efforts to prevent global warming.

The international community and Japan alike have been committed to the goal of realizing a decarbonized society with net zero greenhouse gas emissions by 2050. At Kansai Airports Group, various steps have been taken to reduce the environmental footprint of the three airports it oeprates (Kansai International Airport, Osaka International Airport, and Kobe Airport). We will continue to work on a medium- to long-term plan and promote the measures for achieving carbon neutral status by further reducing energy consumption and using renewable energy.

Kansai Airports Group is committed to further accelerating the efforts to reduce environmental impacts in pursuit of a harmonious coexistence between the airports and their surrounding environment.
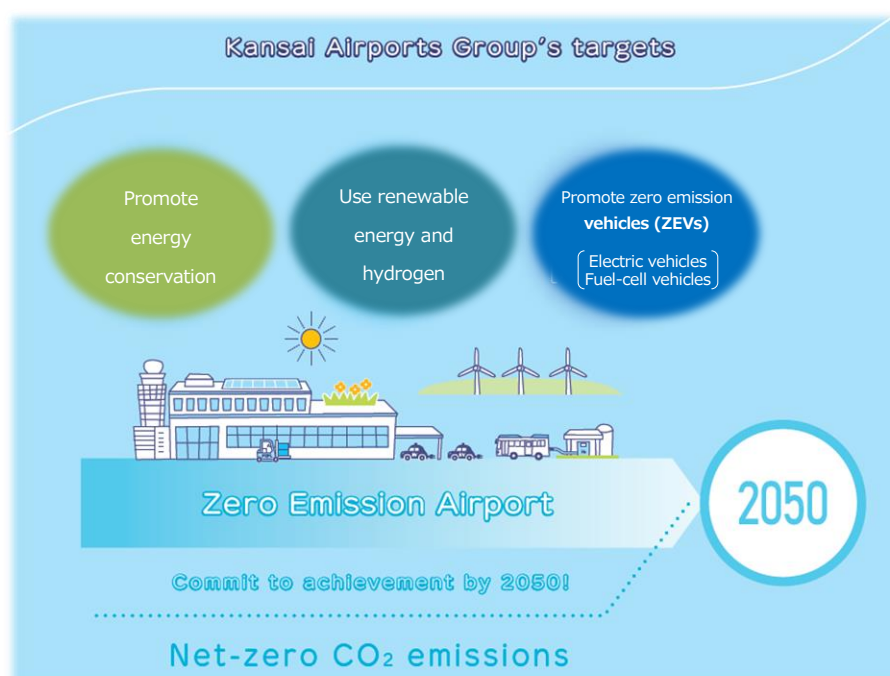
■ Long-term target for 2050

	FY2016 (Baseline)	FY2030	FY2050
Kansai Airports Group's CO2 emissions Scope 1 and Scope 2 [1]	**113 thousand tons** [2]	**40% reduction**	**Net zero** [3]

[1] Scope 1: Direct emissions from fuel combustion, etc.   Scope 2: Indirect emissions through the purchase of electricity

[2] Calculated for the fiscal year based on the figures provided by the Airport Carbon Accreditation
Figures for Kobe Airport include the estimate for the period before the operation by Kansai Airports Kobe

[3] Includes the purchase of green energy, etc.

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KANSAI AIRPORTS

KANSAI AIRPORTS

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		

ORIX

ORIX Corporation (TSE: 8591; NYSE: IX) is an opportunistic, diversified, innovation-driven global powerhouse with a proven track record of profitability. Established in 1964, ORIX at present operates a diverse portfolio of businesses in the operations, financial services, and investment spaces. ORIX's highly complementary business activities span industries including: energy, private equity, infrastructure, automotive, ship and aircraft, real estate and retail financial services. ORIX has also spread its business globally by establishing locations in a total of 37 countries and regions across the world. Through its business activities, ORIX has long been committed to corporate citizenship and environmental sustainability. For more details, please visit our website: http://www.orix.co.jp/grp/en/

VINCI AIRPORTS

VINCI Airports, the leading private airport operator in the world, manages 45 airports in 12 countries in Europe, Asia and the Americas. We harness our expertise as a comprehensive integrator to develop, finance, build and operate airports, while leveraging our investment capability and expertise in optimising operational performance, modernising infrastructure and driving environmental transition. VINCI Airports became the first airport operator to start rolling out an international environmental strategy, in 2016, with a view to achieving net zero emissions throughout its network by 2050.

www.vinci-airports.com

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[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 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.

Long-term target aiming for net zero greenhouse gas emissions and a decarbonized society
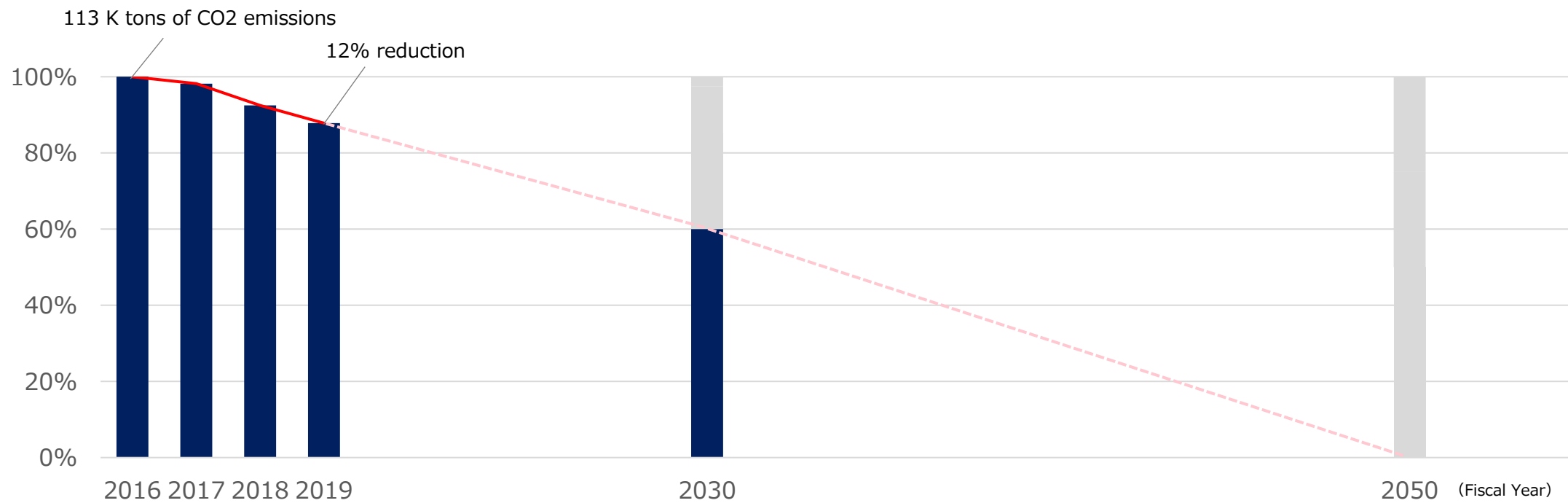
March 5, 2021

Shaping a New Journey

KANSAI AIRPORTS

Long-term Target

Kansai Airports Group's CO2 emissions Scope 1 and Scope 2 [1]	FY2016 (Baseline)	FY2030	FY2050
	113 thousand tons [2]	40% reduction	Net zero [3]

113 K tons of CO2 emissions

12% reduction

100%

80%

60%

40%

20%

0%

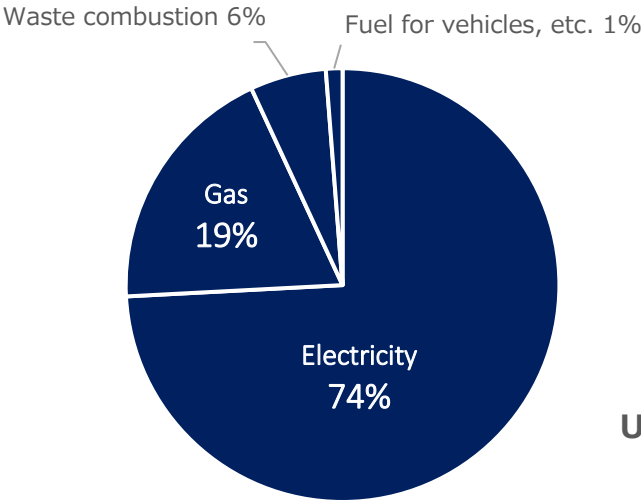2016 2017 2018 2019   2030   2050   (Fiscal Year)

Reduction of CO2 emissions

*1 Scope 1: Direct emissions from fuel combustion, etc.   Scope 2: Indirect emissions through the purchase of electricity
*2 Calculated for the fiscal year based on the figures provided by the Airport Carbon Accreditation
     Figures for Kobe Airport include the estimate for the period before the operation by Kansai Airports Kobe
*3 Includes the purchase of green energy, etc.

KANSAI AIRPORTS

Major Initiatives

Breakdown of Kansai Airports Group's CO2 emission sources *1
(Scope 1 and 2)

Waste combustion 6%

Fuel for vehicles, etc. 1%

Gas 19%

Electricity 74%

Promote energy conservation

Air conditioner
✓ Introduce high-efficiency heat source equipment
✓ Optimize outside air intake
✓ Insulation and solar radiation protection
✓ Optimize air-conditioning control

Lighting
✓ Fully switch to LED lighting
✓ Enhance sensors and brightness control

Operations
✓ Visualize and analyze energy consumption using BEMS *2
✓ Optimize operations using AI

Use renewable energy and hydrogen

✓ Install more solar panels
✓ Promote the Hydrogen Grid Project

Promote ZEVs *3

✓ Replace existing service vehicles with electric and fuel-cell vehicles

KANSAI AIRPORTS

Roadmap to Net Zero CO2 Emissions

2016	2019		2030		2050

CO2 emissions
40% reduction
Net zero

Current reduction

Emissions from purchased electricity

Existing measures

Energy saving	- High-efficiency heat source equipment - LED lighting - Operational optimization (analysis using BEMS) - Other energy saving measures
Renewable energy	- T2 solar panels

✓ **Purchase of green energy**
✓ **Further energy saving**

Additional measures

Energy saving	- Energy saving in T1 renovation - Optimization of air-conditioning control - Full switch to LED lighting with sensors and brightness control - Operational optimization using AI
Renewable energy	- Additional solar panels
ZEV	- Zero emission vehicles

✓ **Technological innovation**

✓ **Use of hydrogen**
✓ **Use of city gas produced through methanation**
✓ **Carbon capture and methanation to reduce emissions from waste combustion**
✓ **Full switch to zero emission vehicles**

Initiatives to Date

Energy conservation

KIX | ITAMI

Improve efficiency of
air-conditioning equipment

KIX | ITAMI | KOBE

Introduce LEDs in terminal buildings

KIX | ITAMI | KOBE

Insulation and
solar radiation protection

KIX | ITAMI | KOBE

Promote energy-saving operations

Renewable energy and hydrogen

KIX

Install solar panels
on the roof of terminal buildings

KIX | ITAMI

Promote the hydrogen project

ZEVs

KIX | ITAMI

Introduce EVs and FCVs

KIX

Introduce fuel-cell forklifts

KANSAI AIRPORTS

Reference

■ Kansai Airports Environmental Statement

http://www.kansai-airports.co.jp/en/efforts/environment/efforts/message.html

■ One Eco-Airport Plan: 5-Year Environmental Plan for FY2018 to FY2022

http://www.kansai-airports.co.jp/en/efforts/environment/efforts/oneecoairport.html

■ Environmental Report 2020

http://www.kansai-airports.co.jp/en/efforts/environment/efforts/reports.html

KANSAI AIRPORTS