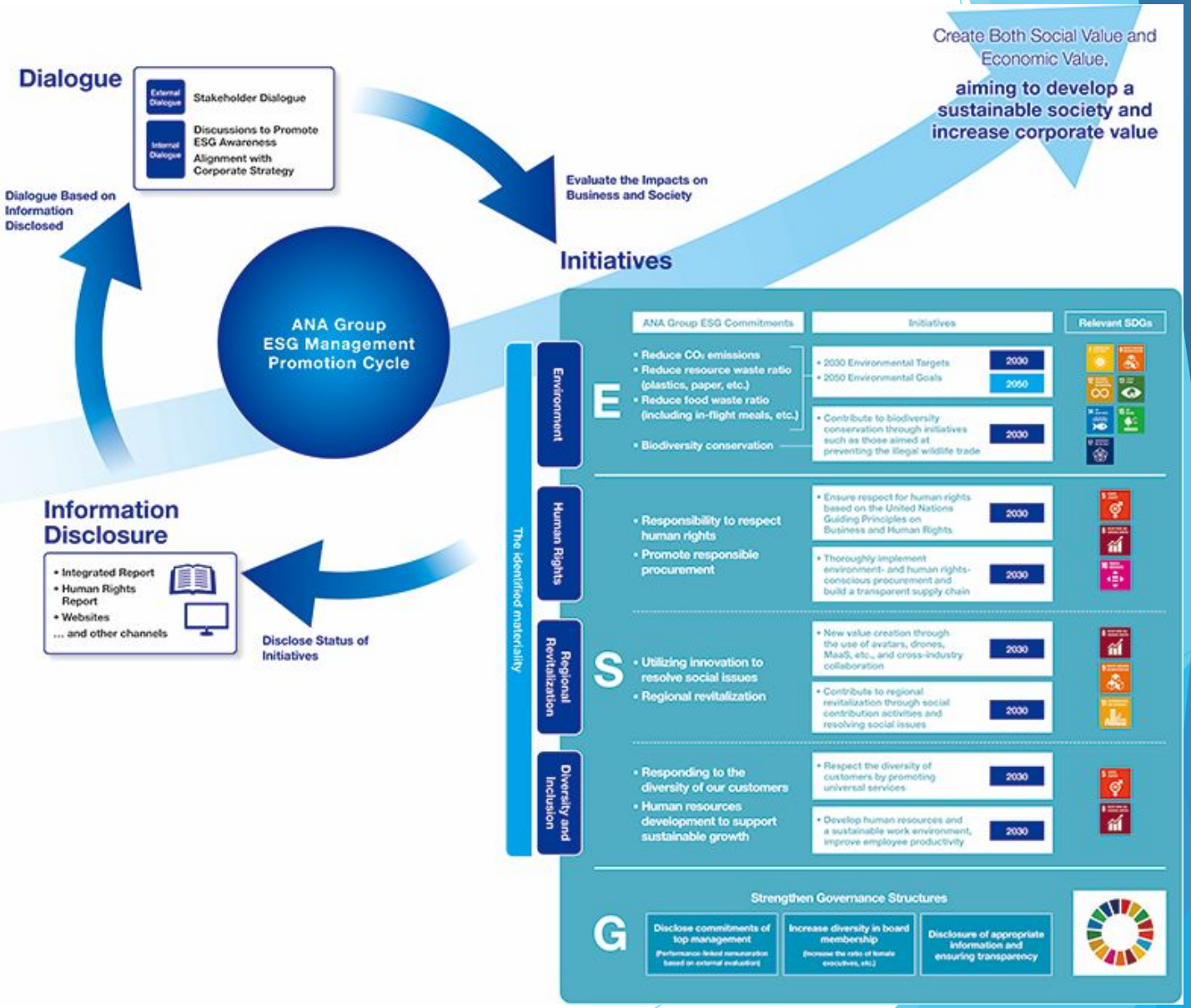
ANA Group Initiatives for Decarbonization

ANA HOLDINGS INC.
Executive Vice President
Group Chief Sustainability Officer
Chikako Miyata

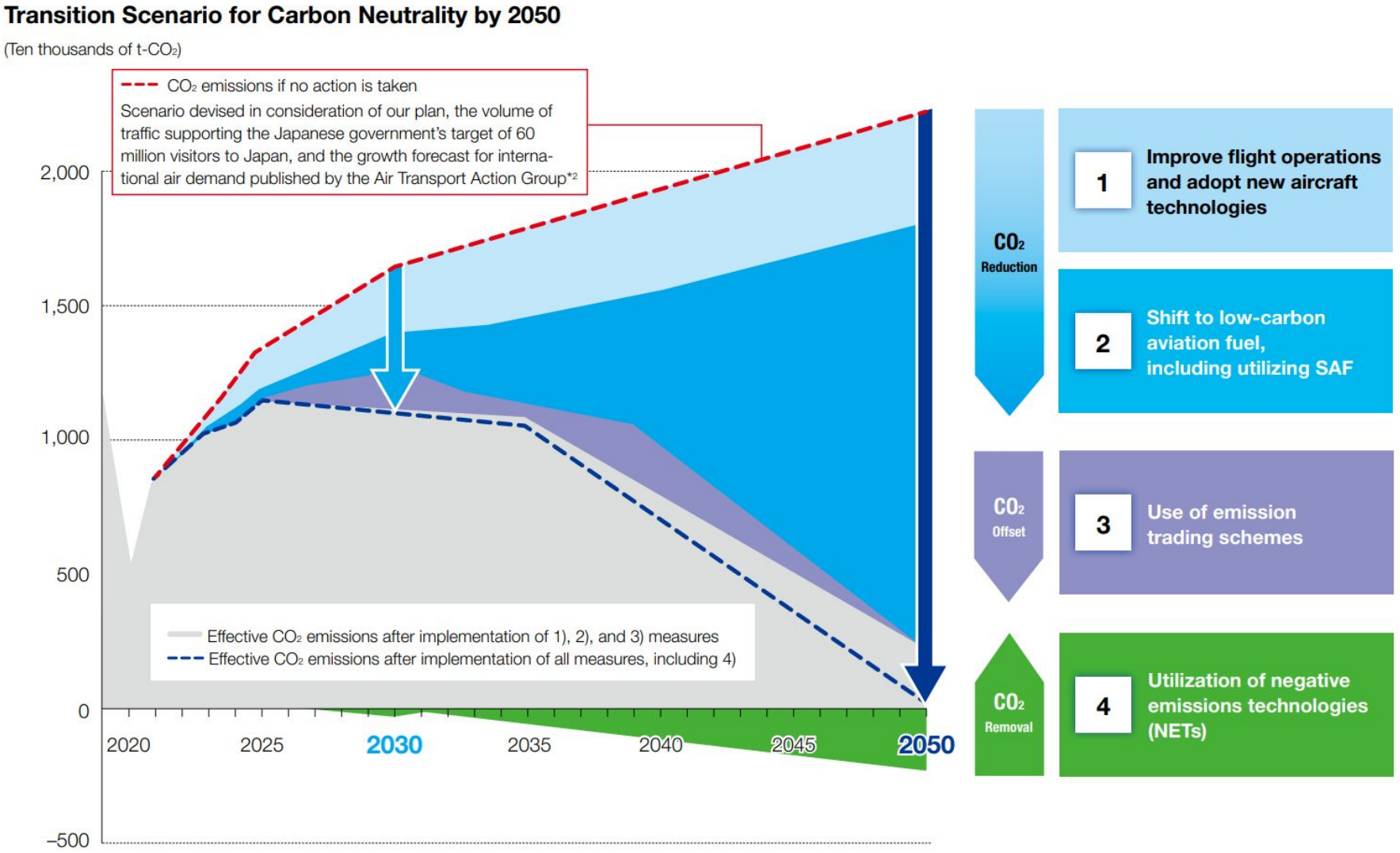
ANA Group ESG Management Promotion Cycle



ANA Group 2050 Long-Term Environmental Goals and 2030 Medium-Term Environmental Targets

			FY2030	FY2050
Reduce CO_2 Emissions	Aircraft	Targets	**Below FY2019**	**Net zero**
		Initiatives	• Use of SAF • Adopt new aircraft technologies • Improve flight operations • Use of emission trading schemes	
		Requirements for Success	• Stable supply of SAF (volume and price) • Adopt new aircraft technologies (Development of electric and hydrogen airplanes, etc.) • Development of the CO_2 credit market	
	Non-Aircraft	Targets	**33%+ reduction vs. FY2019**	**Net zero**
		Initiatives	• Energy conservation and renewal of aging facilities and equipment • Use of renewable energy (solar, wind, etc.) • Select EVs (Electric Vehicles) and FCVs (Fuel Cell Vehicles) when upgrading airport vehicles	
		Requirements for Success	• Expansion of renewable energy supply • Development of airport infrastructure to convert to EVs/FCVs	
Reduce Resource Waste Ratio (Plastics, Paper, etc.)		Targets	**70%+ reduction vs. FY2019**	**Zero waste ratio**
		Initiatives	• Replace disposable plastics for eco-friendly materials • Promote cargo plastic recycling • Digitize paper resources (in-flight magazines, timetables, travel brochures, and cargo waybills)	
Reduce Food Waste Ratio (Including In-Flight Meals, etc.)		Targets	**Reduce to less than 3.8%** (FY2019 waste ratio: 4.6%)	**Reduce to less than 2.3%** (50% reduction vs. FY2019)
		Initiatives	• Monitor the disposal of in-flight and domestic airport lounge meals and reevaluate loading capacity	

Reduce CO2 Emissions from Aircraft Flight Operations



Cross-industry Cooperation and Collaboration

全日本空輸株式会社
日本航空株式会社
2021年10月8日

共同レポート

2050年 航空輸送におけるCO2排出実質ゼロへ向けて

2030 Ambition Statement

2021年9月22日、ANAホールディングス株式会社および日本航空株式会社は、持続可能な航空燃料（SAF）の導入促進を目指す世界経済フォーラムのクリーン・スカイズ・フォー・トゥモロー・コアリション（Clean Skies for Tomorrow Coalition）に参画し、世界の航空業界で使用される燃料に占めるSAFの割合を、2030年までに10%に増加させることを目指す 2030 Ambition Statementに署名しました。

航空は技術的にCO2排出量の削減が困難なセクターのひとつであり、全世界のCO2排出量の約2%に相当します。新型コロナウイルス感染症の世界的大流行の収束後、航空需要が回復し、再び経済成長を支えていく役割を果たすとともに、2050年に航空輸送におけるCO2 排出実質ゼロを実現するためには、航空輸送に関わる産業が横断的に協力し、SAFの技術 開発、生産、流通、および利用を加速させる必要があります。そして、2030年には少なくとも世界の航空燃料の10%をSAFへ移行するマイルストーンが必要です。

2030 Ambition Statement: この声明文に署名した企業にはグローバルな航空会社グループ 空港、燃料供給会社やその他の業界ステークホルダーが含まれており、日本企業ではANAホールディングスおよび日本航空のみ（2021年10月現在）。

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三菱重工
DINS 大栄環境グループ
DAIWA ROYAL HOTEL
TOSHIBA
J-POWER 電源開発株式会社
ニチレイ
BOEING
KANSAI AIRPORTS
Green Earth Institute

Decarburization Initiatives with Customers

SAF Flight Initiative Overview

SAF supplier → Airline (ANA) → Participating Companies

1. Directly reduce CO2 emissions in "Scope 1"

2. CO2 reduction levels to be calculated based on SAF purchase

Participating Companies:
- Corporate Program (NEW)
- Cargo Program

"Scope 3" CO2 emissions from business travel and cargo transportation to be indirectly reduced

- By procuring SAF, ANA will be able to reduce CO2 emissions in "Scope 1"; its core business of flight operations.
- Customers of the SAF Flight Initiative will be able to reduce their "Scope 3" indirect CO2 emissions for Categories 4, 9 (cargo) and Category 6 (business travel).

Information Disclosure on Responding to Climate Change

Disclosures in Line with the TCFD Recommendations

Disclosures in Line with the TCFD Recommendations

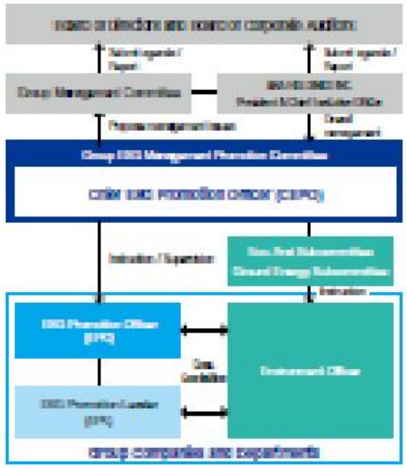
In March 2018, the ANA Group became the first Japanese airline to endorse the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), established by the Financial Stability Board. We disclose information in accordance with the four items required by the TCFD recommendations: Governance, Strategy, Risk Management, and Metrics and Targets. We will continue to enhance our disclosure content in line with the TCFD framework.

Governance

To address environmental issues, including climate change, we established the Group ESG Management Promotion Committee, which is overseen by the President & Chief Executive Officer, chaired by the Chief ESG Promotion Officer, and consists of group company directors and executive officers, as well as the full-time Audit & Supervisory Board members of ANA HOLDINGS INC. At its meetings, which are held four times a year, members discuss important policies and measures related to environmental issues, including climate change, and monitor progress toward targets.

Under the committee, we have also established the Eco-First Subcommittee (related to aircraft operations) and the Ground Energy Subcommittee (related to ground energy other than aircraft operations), which report and discuss CO_2 reduction measures, initiatives, and progress. Important matters related to corporate strategy are discussed at the Group Management Committee and submitted to the Board of Directors.

Furthermore, in order to realize sustainable growth as a company and enhance corporate value over the medium- to long-term, the status of promotion of ESG management is objectively and multilaterally monitored. Here, we employ evaluation indicators such as CO_2 emissions volume and external ESG evaluation indicators, which are also reflected in officer remuneration.



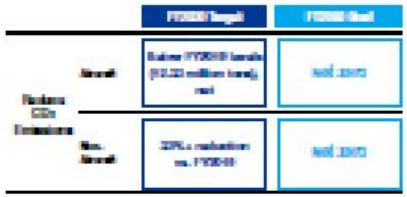
Risk Management

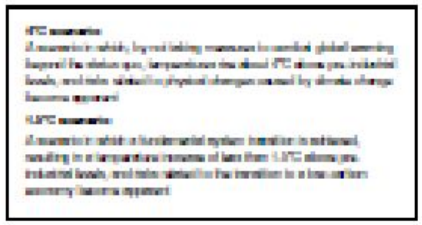
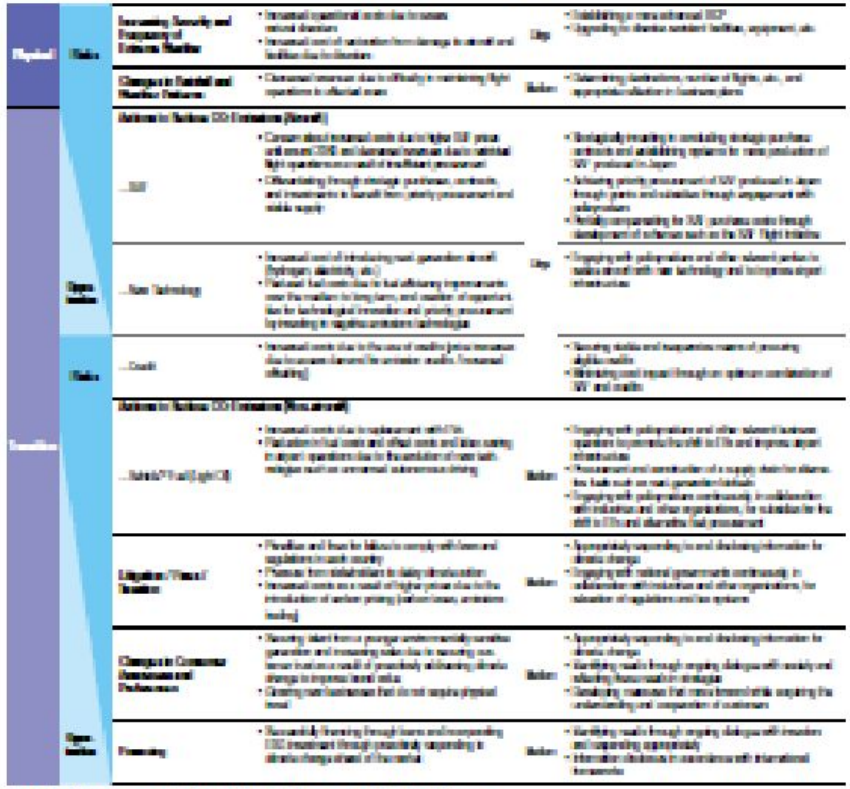
Based on the basic policies determined by the Board of Directors, the ANA Group Total Risk Management Regulations provide the basic terms of the group's risk management system. Under these regulations, the Group ESG Management Promotion Committee develops, implements, and monitors progress of basic policies.

Key issues related to climate change are also handled within the overall risk management framework.

Metrics and Targets

In 2021, the ANA Group formulated the 2030 Medium-Term Environmental Targets and the 2050 Long-Term Environmental Goals. We are currently strengthening our efforts to achieve our goal of net-zero CO_2 emissions by fiscal 2050.



Strategy

We carried out scenario analysis based on the 4°C and 1.5°C scenarios provided by the United Nations Intergovernmental Panel on Climate Change (IPCC) and the International Energy Agency (IEA) to identify risks and opportunities that climate change poses to the ANA Group's Air Transportation business and to examine the impact on revenues and expenses as well as countermeasures. The analysis covers the period from 2030 to 2050, as set forth in the ANA Group's medium- to long-term environmental targets.