ANA Group's Environmental Initiatives

Path to Carbon Neutral Growth

Presented at Japan Aviation Environmental Workshop

5 November 2014

Basic Approach

- Promotion of environmental preservation
  Careful use of resources and energy towards creation of a sustainable society
- 1974 - Establishment of Environment Preservation Committee
- Certified by the Ministry of Environment as an Eco-First Company in 2008 – First in airline and transport industry
- Since 1999 – “Action Plan for the 21st Century”
  Specific numerical targets for CO2 emission reduction for each medium-term period

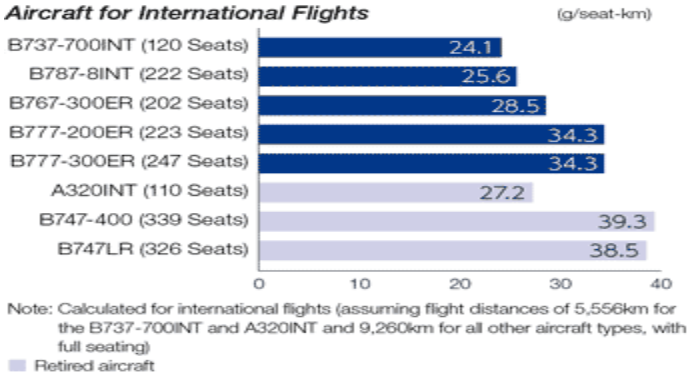
FLY ECO 2020

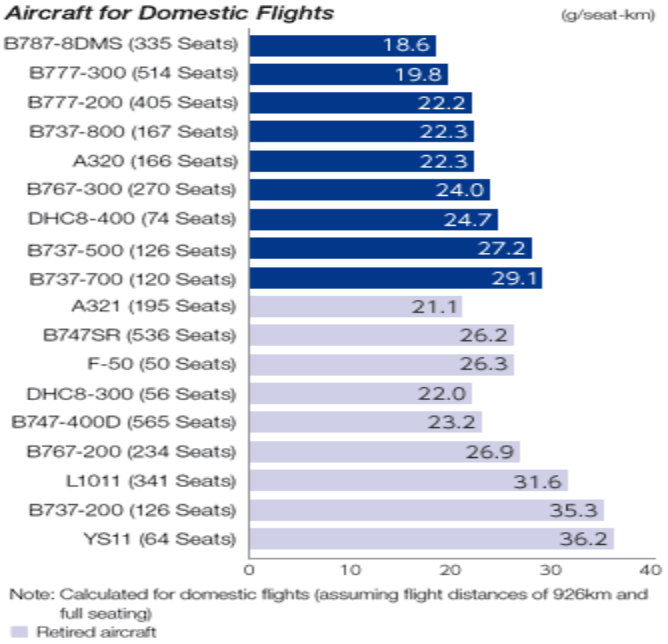
Medium-to-Long-Term Environmental Plan

- FLY ECO 2020 – Medium-to-Long-Term environmental plan from FY2012 to FY2020

ITEM		Targets	Results in FY2013
Climate Change Measures	Reduction of CO2 emissions from aircraft fuel	**Unit target** -FY2020 20% reduction in CO2 emission per RTK from FY2005 level **Total target** – FY2012-2020 below 4.4 million tons for domestic routes	13.3% reduction from FY2005 Total emission 9.448million tons – 4% increase. Reduction in CO2 emissions per RTK to 1.09kg-CO2 **Total target** - 4.36million tons
	Reduction of ground energy	Reduce energy use by 1% each year at all work sites	Total ground energy consumption 1.1% reduction
	Introduction of alternative fuels	Undertaking a thorough study towards a full-scale use by FY2020	Contributed to establishment of INAF and fostering INAF efforts towards building sustainable supply-chain . Supporting R&D on fuels made from such feedstocks as Euglena

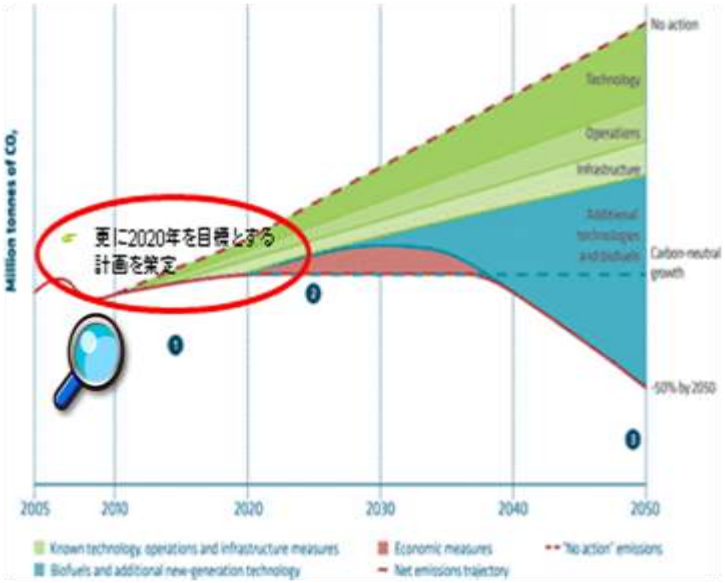
- ≪Fuel Consumption by Aircraft Type≫

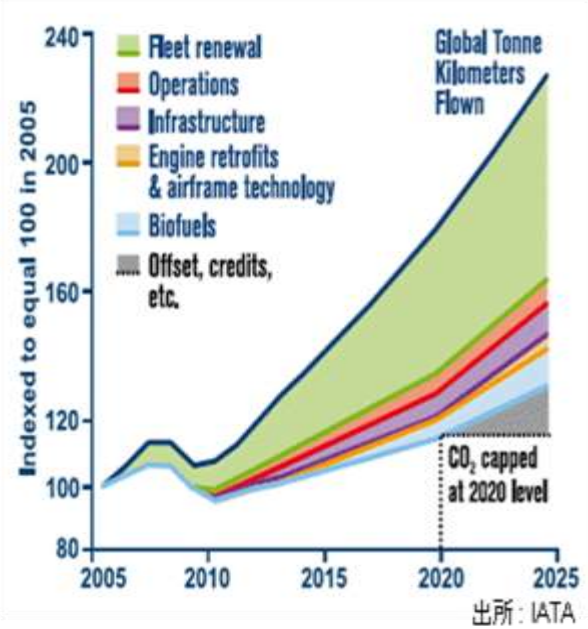




IATAはICAOの取組みに呼応して2020年を目標とするより具体的な行動計画を策定

- IATAの2050年迄のCO_2削減取組みの方向感





出所：IATA

IATAの目標

1. 2020年から航空機のCO_2排出に上限を設定 ⇒ 実現にはバイオジェット燃料が不可欠
2. 2009年から2020年の間、世界平均年1.5%の燃費効率の改善を実現
3. 2050年迄に2005年比較でCO_2排出量を50%削減