



ICAO SEMINAR ON **GREEN AIRPORTS**

ATHENS, GREECE | APRIL 18-19, 2024





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Ali Thani

Managing Airports sustainability at
Oman Airports



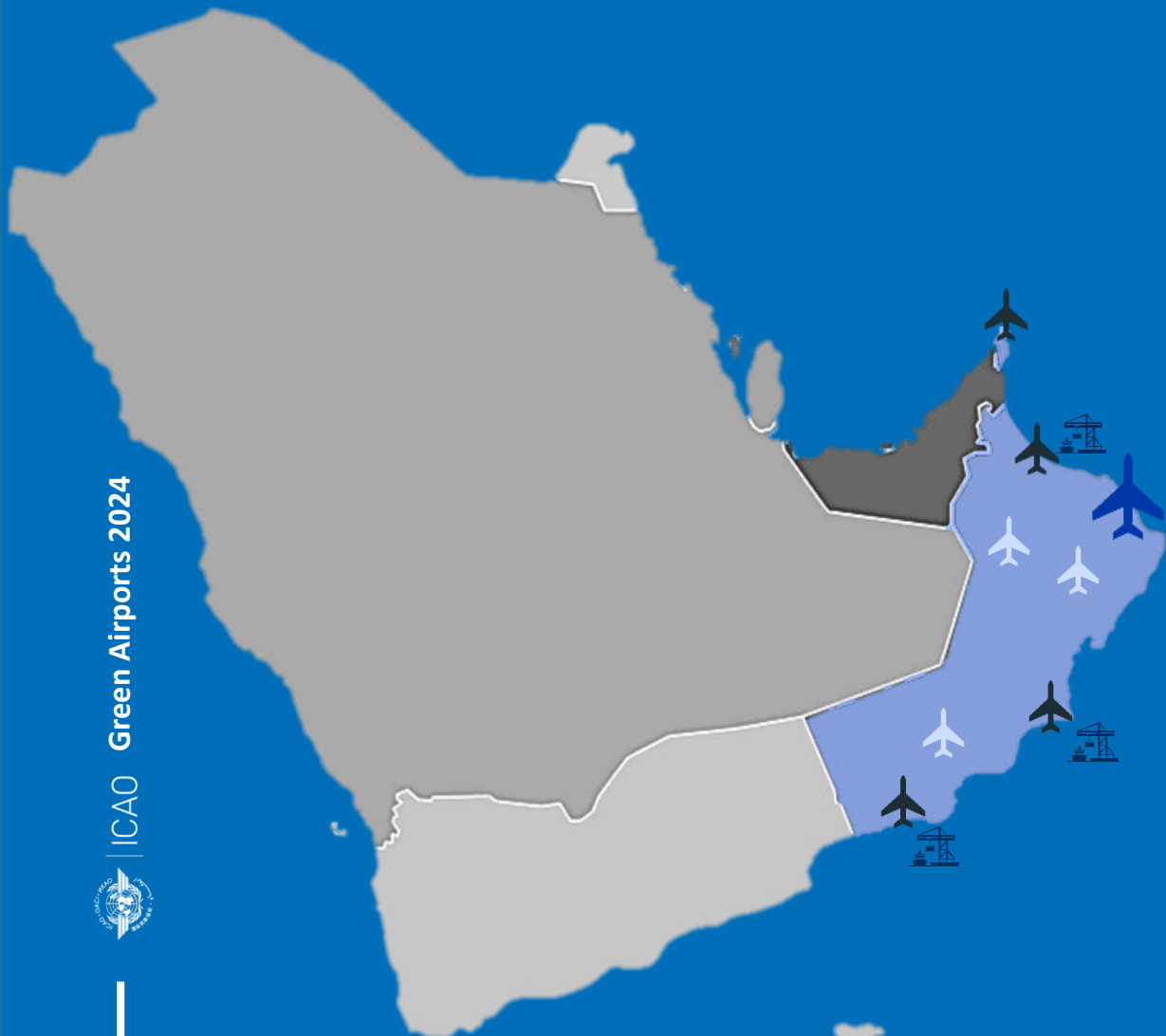
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Oman Airports

Image:
Muscat Intl. Airport



Aviation Structure in Oman





Our Global Representation



Chairman, ACI World
Aimen Al Hosni
CEO, Oman Airports



Chair, ACI Asia-Pacific Regional Economics Committee
Nagy Abu Zeid
VP, Corporate Planning



Member, Regional Human Resources Committee, ACI Asia-Pacific
Abdullah Al Yafaei
VP, Support Services



Member, ACI World Facilitation & Services Committee
Saud Al-Hubaishi
VP, Muscat International Airport



Member, ACI Asia-Pacific Regional Environment Committee
Director IMS

Airports on ACI ACA



airport
carbon
accredited
MAPPING

Muscat International Airport
ACA Level 1



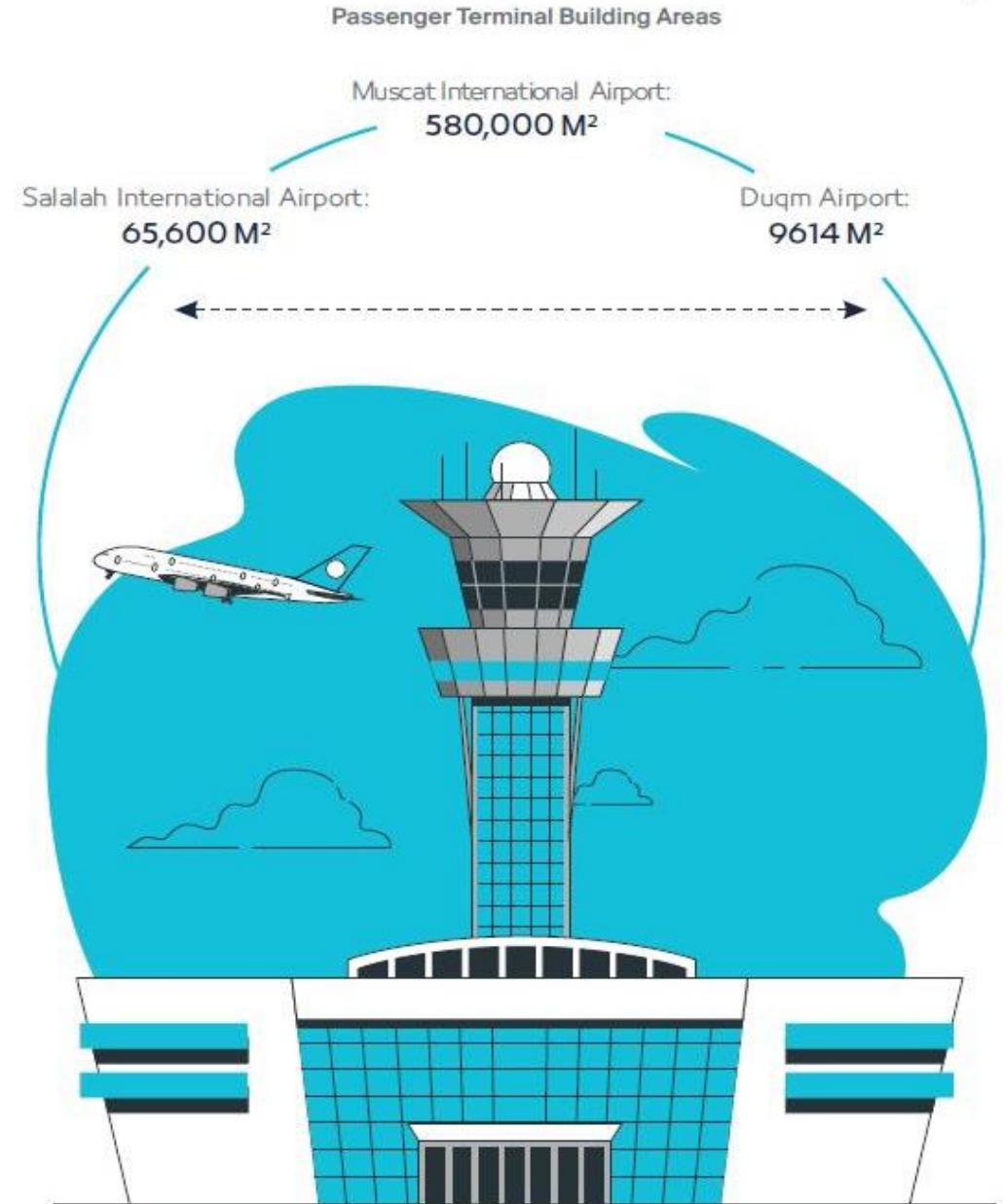
airport
carbon
accredited
OPTIMISATION

Salalah Airport
ACA Level 3

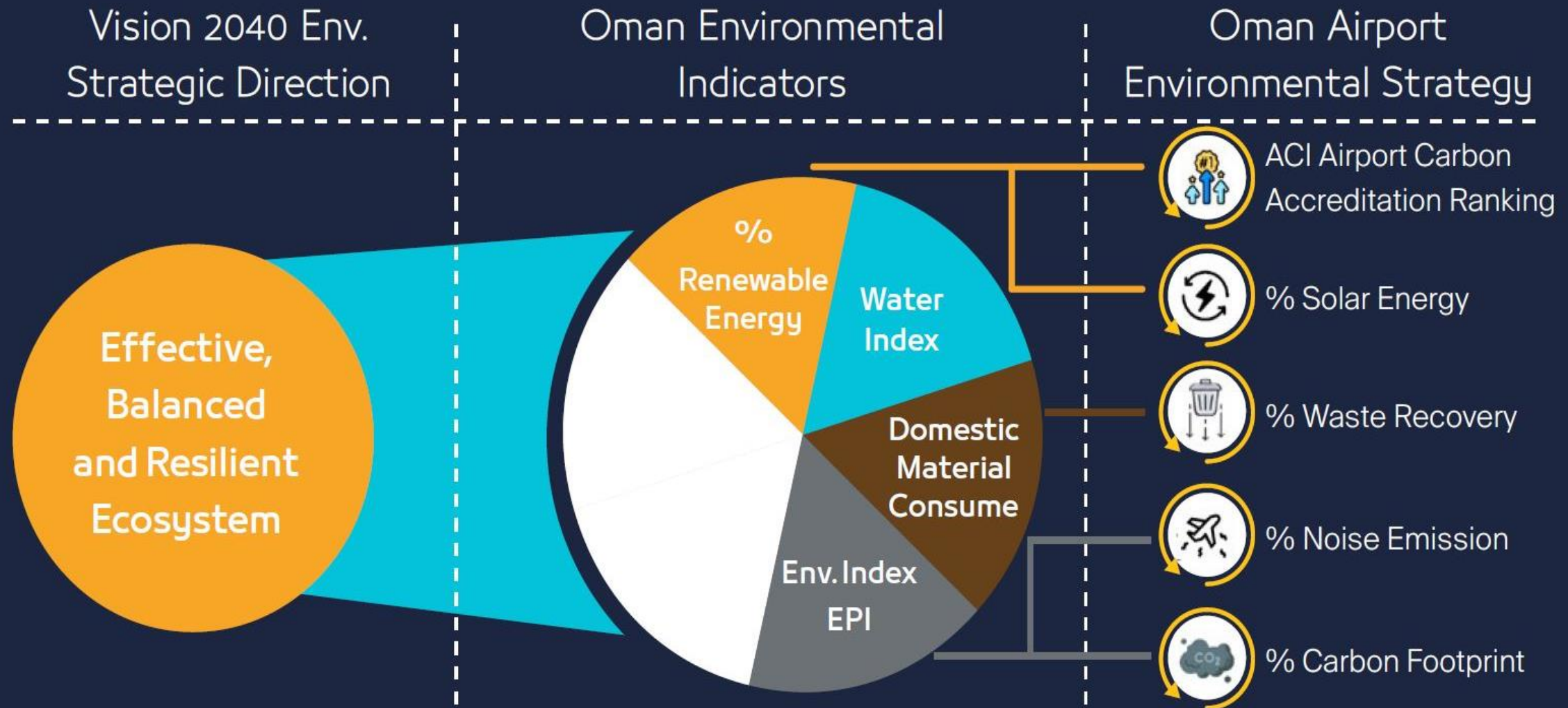


airport
carbon
accredited
MAPPING

Duqm Airport
ACA Level 1



Mapping the Environmental Strategic Direction

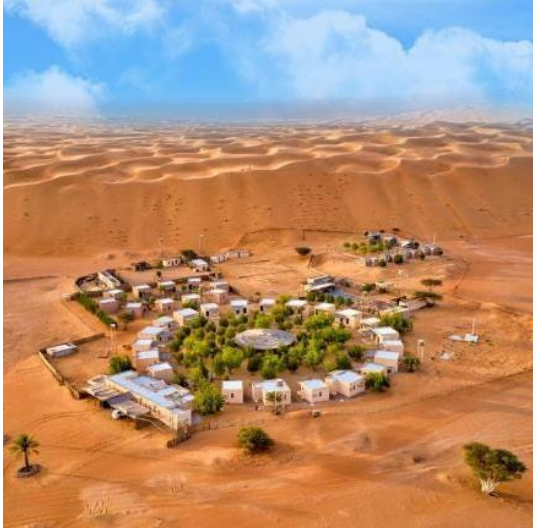


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What is Green Airport?

Image Source:
Chat GPT

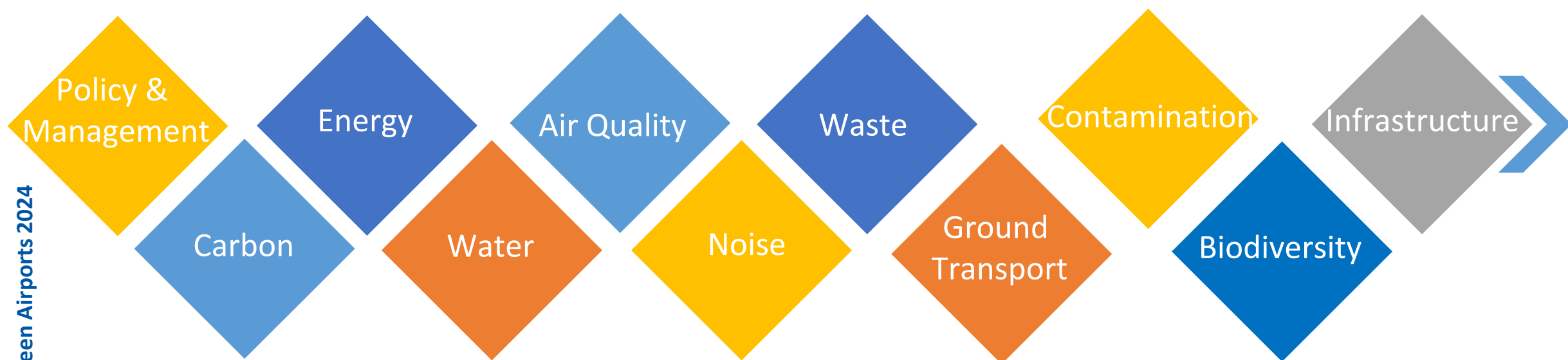




What we see from the
perspective of a
Challenging Environment

We See
Beauty

Our Green Airport's Radar Span:



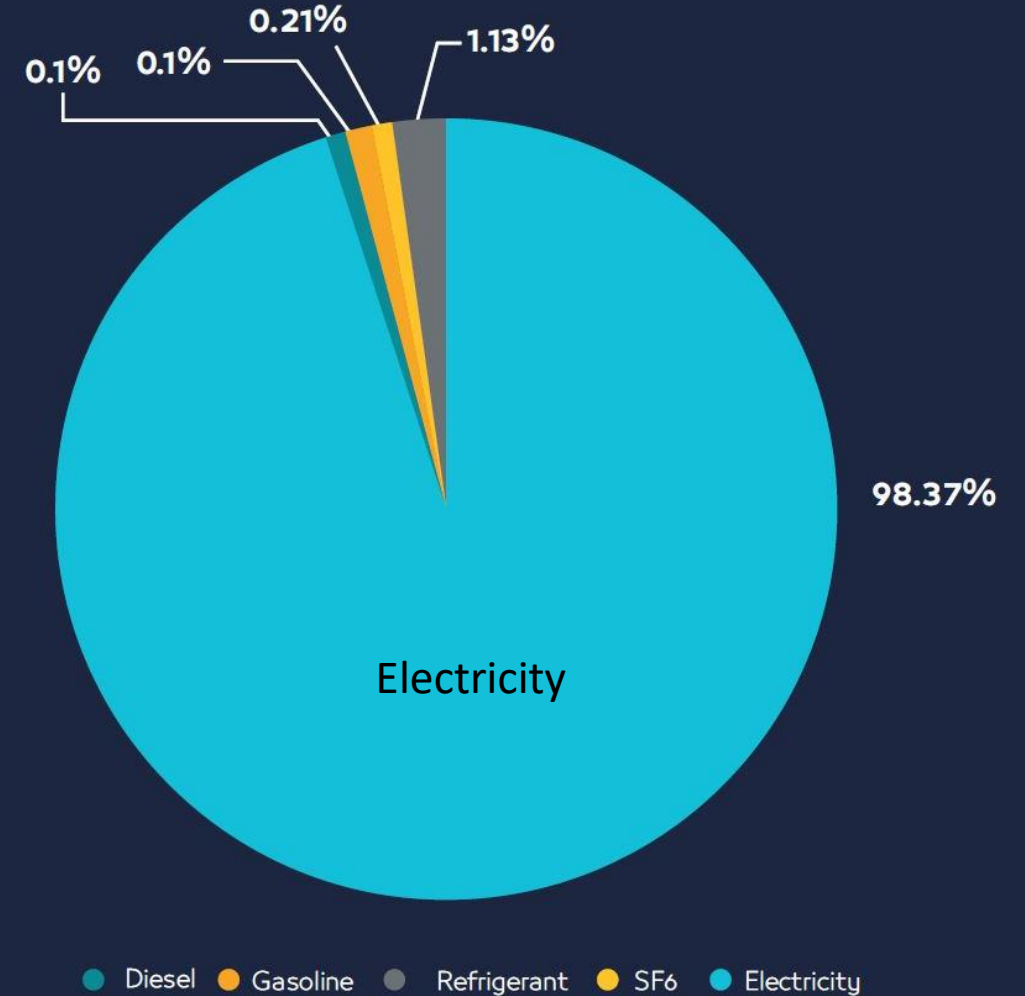
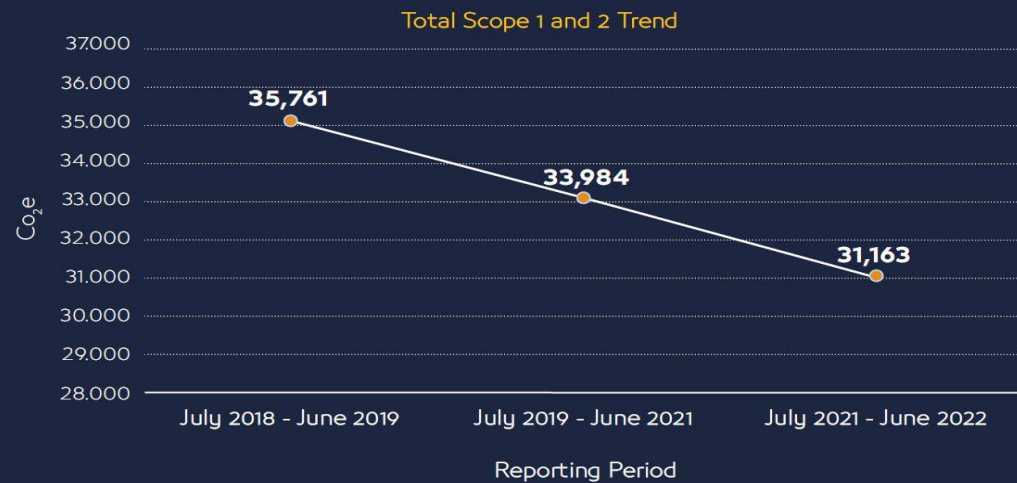
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What Airports can do?

Towards Greener
Airports



Airport Emission



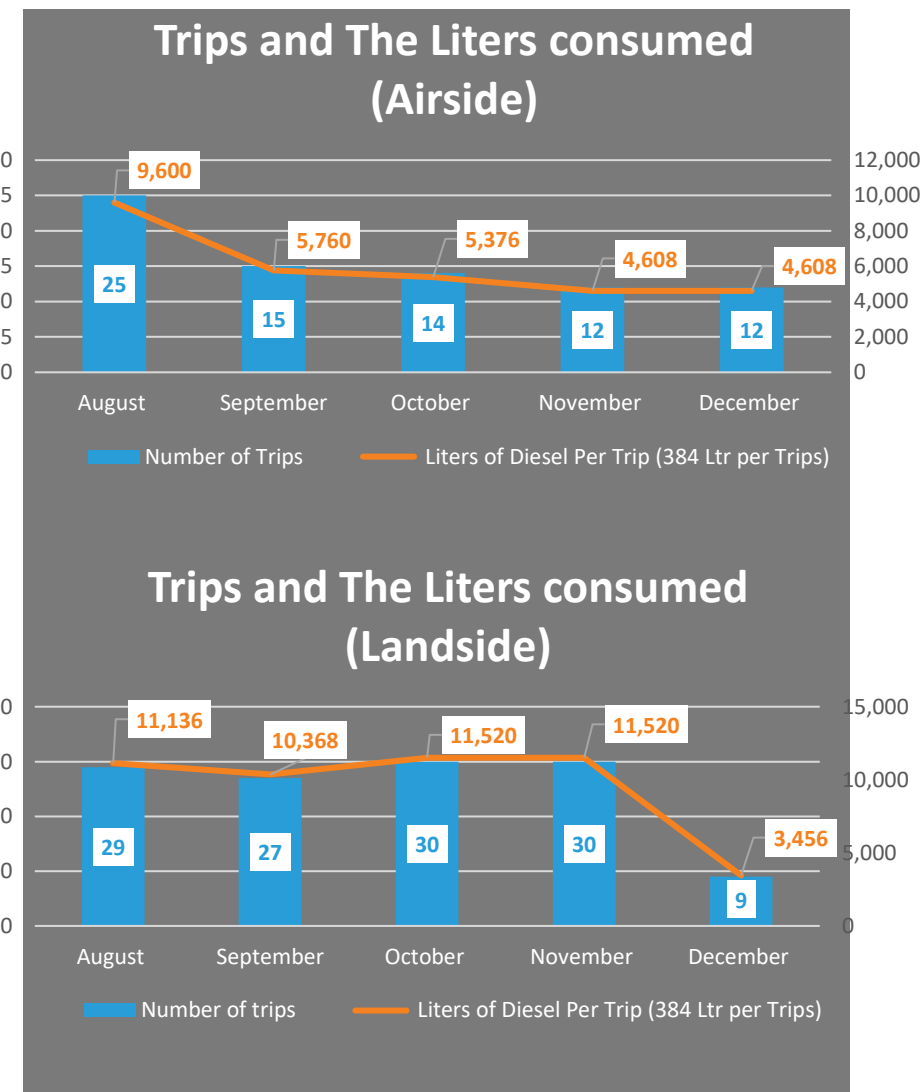


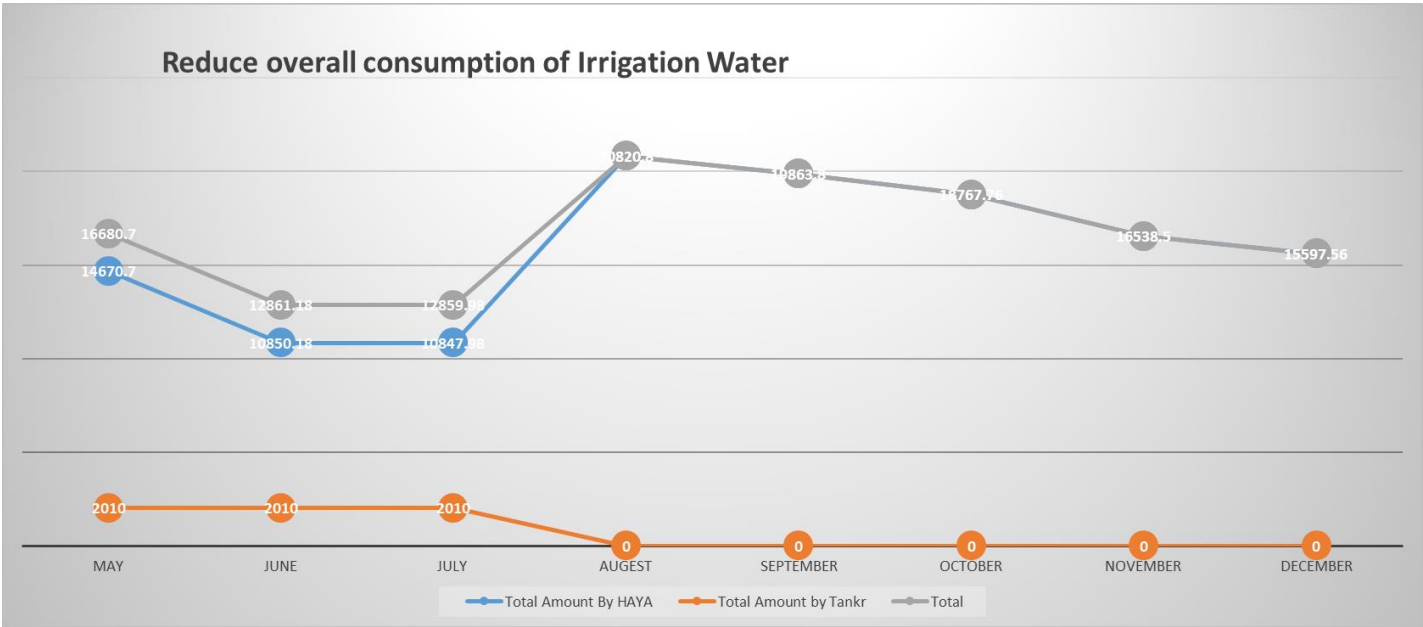
Waste Management: Introducing ORCA Digester

ORCA Digester Data Analysis 2023					
Month	Diversion (Ton)	CH4/Ton	CO2/Ton	Fuel/Liter	Diesel Price per 1 Liter = 0.26 (OMR)
August	5.31	3.10	4.10	981.10	255.09
September	3.96	3.00	3.40	687.00	178.62
October	6.31	3.10	4.80	1166.20	303.21
November	5.73	3.00	4.60	1064.50	276.77
December	5.44	3.10	3.90	894.40	232.54
Total	26.75	15.30	20.80	4793.20	1246.23

Introducing Waste Static Compactor

From 7 trips per week to 1 trip weekly to the Landfill





Optimizing Irrigation System

20 % reduction in water consumption
By Reprogramming the irrigation stations

Plants Type	Month water consumption unit rate (L/Day)											
	January	February	March	April	May	June	July	August	September	October	November	December
Date Palm Trees	50	50	65	65	65	100	100	100	65	65	65	50
Trees more than 6m2	40	40	50	50	50	80	80	80	50	50	50	40
Trees less then 6m3	30	30	40	40	40	60	60	60	40	40	40	30
shrups	8	8	10	10	10	15	15	15	10	10	10	8
Ground Cover	6	6	8	8	8	12	12	12	8	8	8	6

Conocarpus Tree Replacement

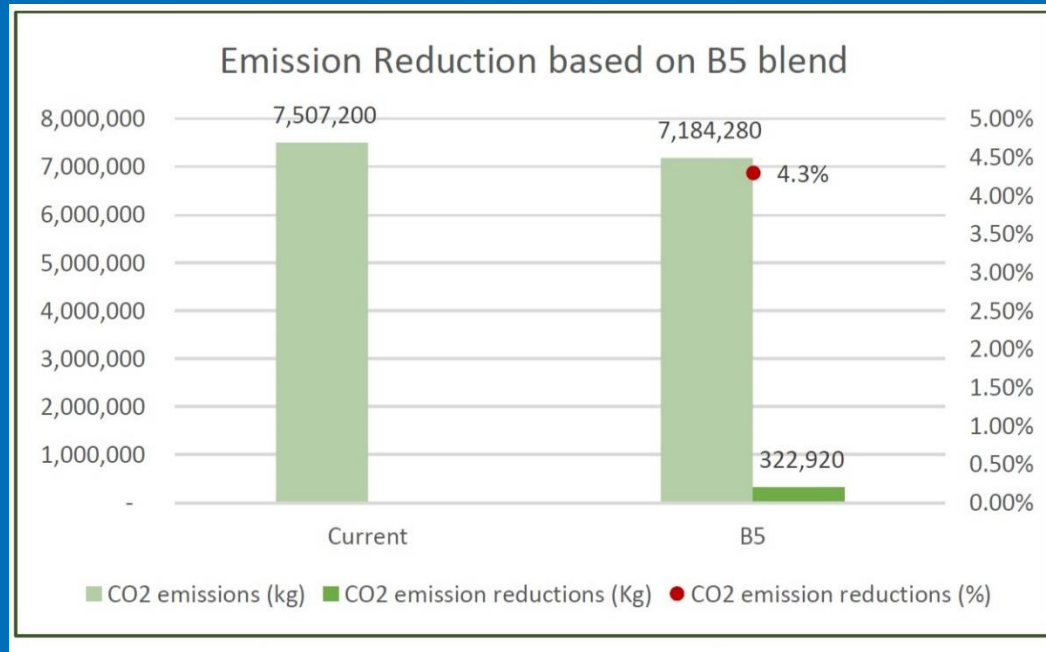


Planting initiative, which was Start in January 2022, aimed to plant 10,000 trees by the end of 2024 strategically within the airport's vicinity.

The funding is a joint effort, and by **December 2023, 3,000 trees** have been successfully planted, supported by registration with the Environment authority. Achievements include improved air quality, carbon sequestration, and positive community engagement.

Alternative Energy: Using Bio-Diesel for

- Backup generator
- Fire trucks and GSE



Producing Bio-Diesel from Terminal used-Cooking-oil



- Joint Project with Energy Sector
- Testing the Ecosystem of Green hydrogen
 - Green hydrogen Vehicles
 - Green hydrogen filling station

Follow-me or Follow the Green



Thank You

