



**ICAO Ninth Meeting of the Aerodromes Operations and Planning
Sub-Group (AOP/SG/9)**

Agenda Item 7 Airport Environmental Initiatives

AIRPORTS EFFORTS FOR NET ZERO CARBON EMISSION GOAL

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INTRODUCTION

The Context: Ambition Meets Responsibility

As a sector that connects the world, we have a profound responsibility to lead the transition to a sustainable future and mitigate our climate impact. Our efforts are framed by a global responsibility, widespread regional ambition, and a clear problem to solve.



Environmental Impact

The aviation industry contributes approximately 2% of global CO₂ emissions, demanding decisive and transparent mitigation **measures**.



Regional Ambition

In our regions, 32 States have already pledged carbon neutral or net zero goals through their Nationally Determined Contributions (NDCs).



The Action Gap

While commitments are increasing, there is a critical need for clear, detailed roadmaps to turn ambitious pledges into measurable action.

Our Solution: A Suite of Key Initiatives

To bridge this "Action Gap," ACI provides a comprehensive ecosystem of initiatives to guide and support our members.



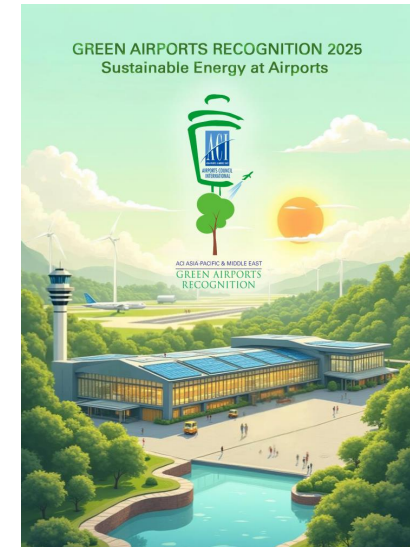
Airport Carbon Accreditation

The Global Standard. A credible, verifiable framework for carbon management.



Net Zero Roadmap Programme

The Practical Plan. A hands-on programme to translate goals into concrete actions.



Green Airports Recognition

A platform to celebrate success and share best practices.



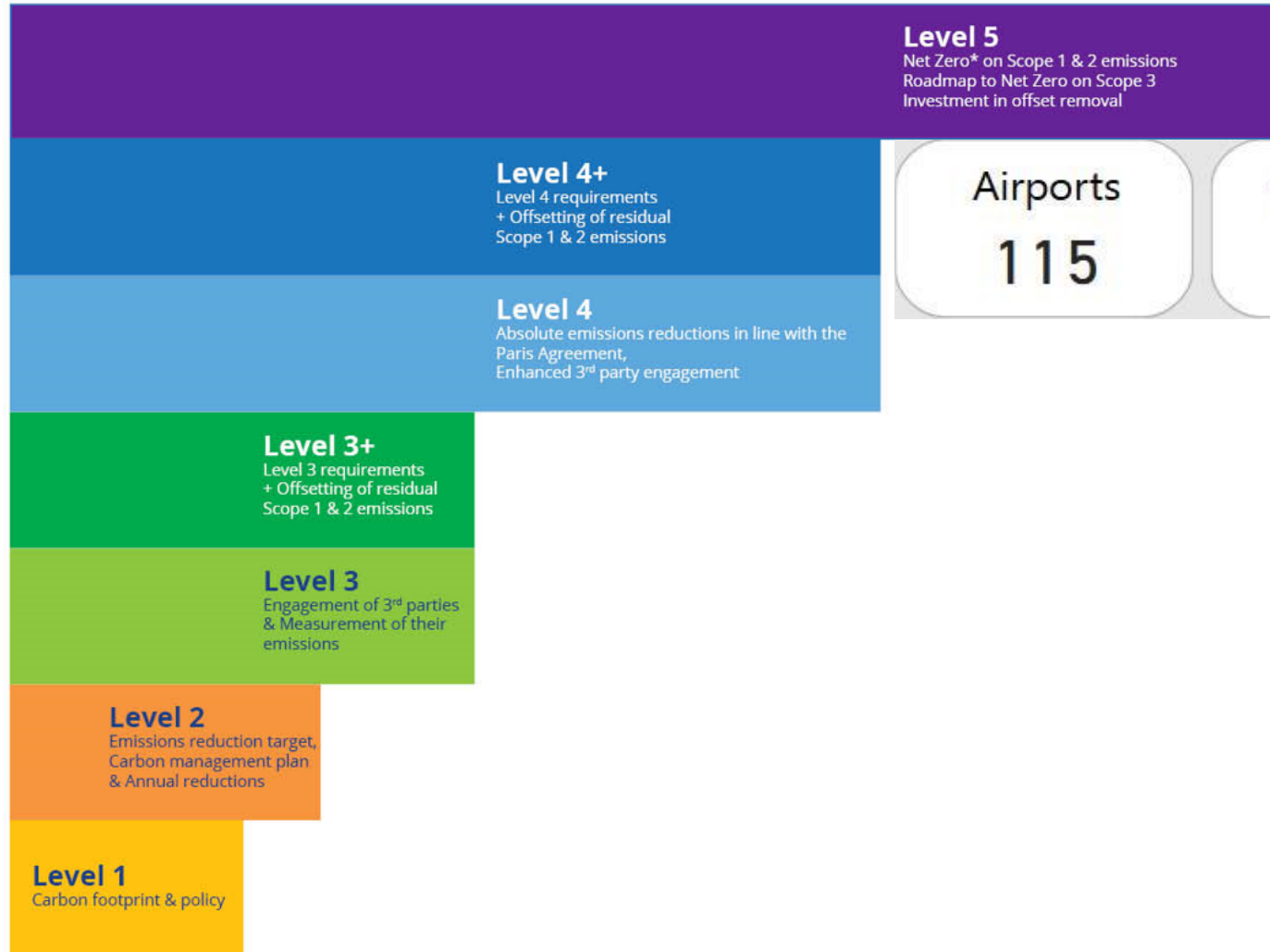
AIRPORT CARBON ACCREDITATION PROGRAMME

Initiative 1: Airport Carbon Accreditation

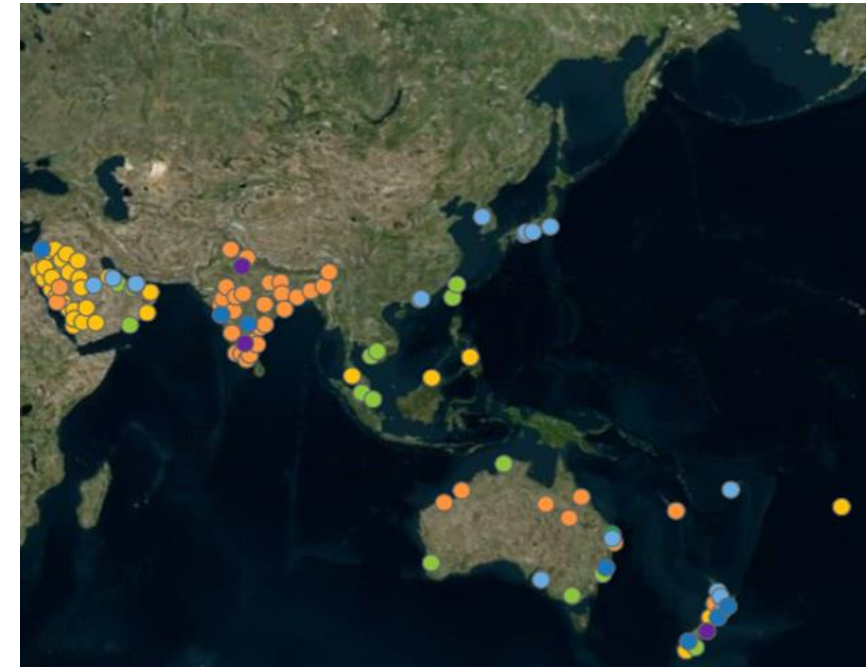
A 7-level programme guiding airports towards the ultimate goal of net zero and industry leadership.



AIRPORT CARBON ACCREDITATION 7 LEVELS



Airports	Countries	ACA Pax	ACA/All Pax
115	21	1.14bn	33.02%



As of June 2025



NET ZERO ROADMAP PROGRAMME

Long Term Carbon Goal

Net Zero Pledges - Airports

Remark:

- Airports with a roadmap are marked with an aeroplane symbol ✈
- As of Q2, 2025

Current

in/before
2030

in/before
2050

New Zealand
India
India
India

Australia
Australia
Australia
Australia
Australia
Australia
India

New Zealand
New Zealand
Australia
Bahrain
Cambodia
Cambodia
Chinese Taipei
Fiji
Hong Kong, China
Malaysia
Japan
Japan
Japan
Japan
Japan
Jordan
New Zealand
New Zealand
New Zealand
New Zealand

Christchurch International Airport (Declared Net Zero 2021)
Rajiv Gandhi International Airport(Hyderabad)✈
Kempegowda International Airport (Bangalore) ✈
Indira Gandhi International Airport (Delhi) ✈

Alice Springs Airport
Brisbane Airport
Melbourne Airport
Newcastle Airport
Darwin International Airport
Sydney Airport ✈
Tennant Creek Airport
Chhatrapati Shivaji Maharaj International Airport (Mumbai) (2029)
Auckland Airport ✈
Queenstown Airport (2028)
Adelaide Airport
Bahrain International Airport
Phnom Penh International Airport
Sihanouk International Airport
Taoyuan International Airport
Nadi International Airport
Hong Kong International Airport
Kuala Lumpur International Airport (2050)
Chubu Centrair International Airport ✈
Kansai International Airport ✈
Kobe Airport ✈
Narita International Airport ✈
Osaka International Airport ✈
Queen Alia International Airport
Hamilton Airport
Hawke's Bay Airport
Palmerston North Airport (2035)
Wellington Airport



32 Pledges
Under ACI Asia-Pacific membership

115 Asia-Pacific & Middle East airports in Airport Carbon Accreditation

Long Term Carbon Goal

Net Zero Pledges - Airports

Remark:

- cover only the region in which ACI APAC serves its airports
- include **Net Zero** and Carbon Neutrality targets only
- as of Q2, 2025

Achieved



Bhutan

In Law



Australia
2050



Fiji
2050



Honolulu
2045



Japan
2050



Maldives
2030



South
Korea
2050



New
Zealand
2050



In Policy Document



Cambodia
2050



China
2060



Hong Kong
2050



India
2070



Indonesia
2060



Malaysia
2050



Marshall
Islands
2050



Nepal
2045



Oman
2050



Papua New
Guinea
2050



Saudi
Arabia
2060



Singapore
2050



Thailand
2065



UAE
2050



Vanuatu
2050



Vietnam
2050

Declaration



Bahrain
2060



Brunei
Darussalam
2030



Chinese
Taipei
2050



Kuwait
2060



Micronesia
2050



Sri Lanka
2050



32 Pledges

countries/ cities/ territories with airports
under ACI APAC & MID membership



Net Zero /
Carbon Neutrality

Initiative 2: ACI APAC & MID: Net Zero Roadmap Programme

ACI APAC & MID is driving sustainable air transport through the ***Net Zero Roadmap – Decarbonise Your Airport*** programme, guiding airports in the Asia-Pacific and Middle East toward net-zero emissions and ACA Level 5 accreditation.



This hands-on programme provides a detailed pathway to turn pledges into reality, from emissions assessment to capital investment planning.

Progress:

- The King Khalid International Airport (KKIA) Net Zero Road Map project is in its final stages.
- MOUs signed with Mactan-Cebu Airport (CEB) and Bahrain Airport (BAH) to develop Net Zero Roadmap

Outlook: We are set for expanded participation from airports across the Asia-Pacific and Middle East in 2026.





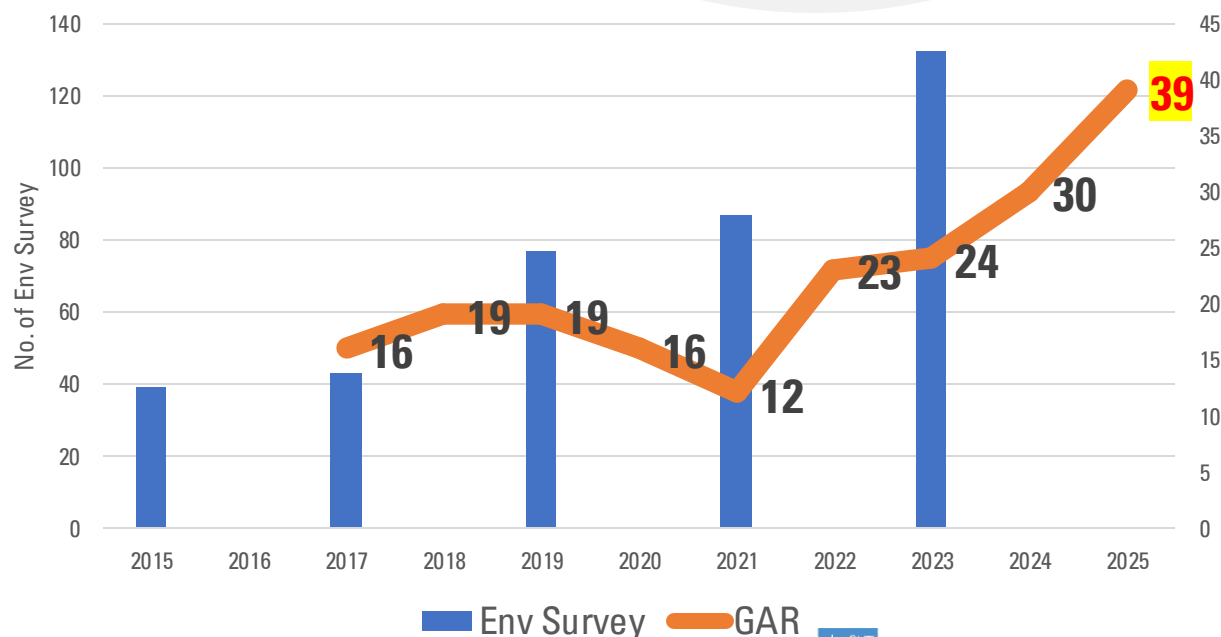
GREEN AIRPORTS RECOGNITION

GREEN AIRPORTS RECOGNITION 2025: OVERVIEW

- ❑ Flagship programme to promote best practices in environmental sustainability
- ❑ GAR 2025 theme: **Sustainable Energy at Airports**
- ❑ Recording-breaking 39 submissions showing consistent attention from airports

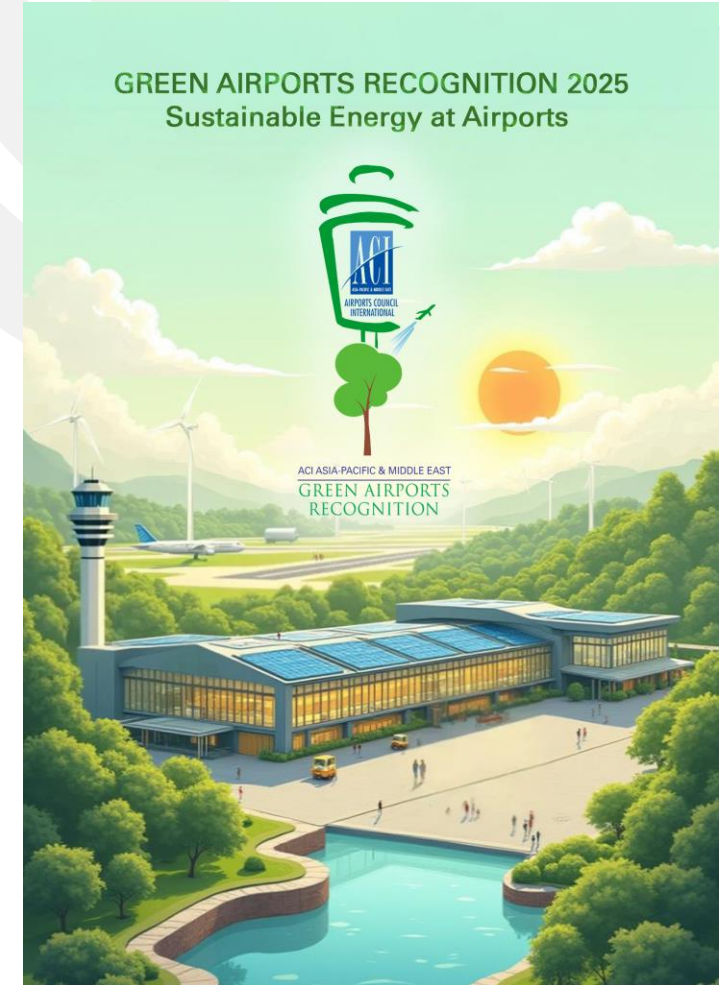
Year	Theme	Numbers
2025	Sustainable Energy at Airports	39
2024	Biodiversity and Nature-Based Solutions	30
2023	Single-Use Plastic Elimination	24
2022	Carbon Management	23
2021	Air Quality Management	12
2020	Water Management	16
2019	Green Airport Infrastructure	19
2018	Waste Minimization	19
2017	Energy Management	16

Environmental Survey and GAR trends



CATEGORY OF INITIATIVES FEATURED IN GAR 2025

- ❑ Broad spectrum of Sustainable Energy related projects:
 - Solar Power Generation, Power Purchase Agreements (PPAs) Procurement, Sustainable Ground Operations, Sustainable Aviation Fuel (SAF) projects, Net Zero Strategies, Green and Zero Energy Buildings, Energy Optimization Initiatives.
- ❑ A publication inspires airports to support net zero goals and adopt sustainable energy practices across aviation.
 - Download the publication [here](#).



RECOGNIZED AIRPORT IN 2025



- **Twelve** airports were recognized for their distinguished accomplishment at the ACI APAC & MID Regional Assembly, Conference & Exhibition 2025 on 16 April in New Delhi, India.



2025 GAR PLATINUM WINNERS



Changi Airport

With 38 MWp capacity, Singapore's largest rooftop system powers 10,000 homes, cuts 19,000 tCO₂, and supports CAG's Net Zero goals



Kansai Airport

Since 2022, Kansai Airport grew UCO collection to 34 tenants and schools, advancing SAF use and decarbonisation goals.



Christchurch Airport

CHC's Kōwhai Park solar project will power 36,000 homes, supporting aviation and energy decarbonisation with 300,000 panels.



Hubballi Airport

Hubballi's 8 MW solar plant powers three airports, cuts 16,356 tCO₂, and saves \$3 M USD annually with surplus energy.

ACTION BY THE MEETING

The meeting is invited to:

- a) Note the information contained in this Paper; and**
- b) Acknowledge that airports in the region have contributed towards global net zero carbon emission goal.**

THE VOICE OF ASIA-PACIFIC AND MIDDLE EAST AIRPORTS



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