



**61st CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS**

ACI APAC & MID PROGRAMMES AND TOOLS SUPPORTING AIRPORT CLIMATE ACTION

AGENDA ITEM 7: Aviation and environment

Presented by

Airports Council International

Kuala Lumpur, Malaysia

7 - 11 September 2026



The Climate Imperative

Physical Constraints

Airports in the region face escalating operational disruptions from extreme heat, shifting rainfall patterns, and severe storm events impacting critical infrastructure.

Regulatory Alignment

ICAO Assembly Resolutions and UNFCCC COP28 set out climate action plans

2030

CLIMATE RISK ASSESSMENT TARGET

2050

ABSOLUTE NET ZERO EMISSION TARGET

Hong Kong's airlines evacuate planes as they wait out Typhoon Ragasa

By Lisa Barrington
September 24, 2025 3:08 PM GMT+8 | Updated September 24, 2025

Time	Flight	Airline	Destination	Gate Status	Time
18:30	AK 137	L	Kuala Lumpur	Cancelled	19:30
18:30	HB 704	L	Taipei	Cancelled	19:40
18:35	CX 6144	J	Hangzhou	Cancelled	19:40
18:40	CZ 1501	J	Chengdu Tianfu	Cancelled	19:45
18:40	UO 116	H	Taipei	Cancelled	19:45
18:45	CX 6261	D	Ho Chi Minh	Cancelled	20:00
18:50	FM 810	J	Shanghai/SHA	Cancelled	20:00
18:50	BR 2892	K	Taipei	Cancelled	20:00
18:50	CX 5528	H	Nha Trang	Cancelled	20:00
18:55	UA 802	G	Los Angeles	Cancelled	20:00
19:00	CA 6514	A	Beijing/PEK	Cancelled	20:00
19:00	AZ 5631	G	Dubai	Cancelled	20:00
19:05	CX 797	B	Jakarta	Cancelled	20:00

(Source: [Reuters](#))

In Germany, a Ryanair plane made an emergency landing due to turbulence, nine injured - media

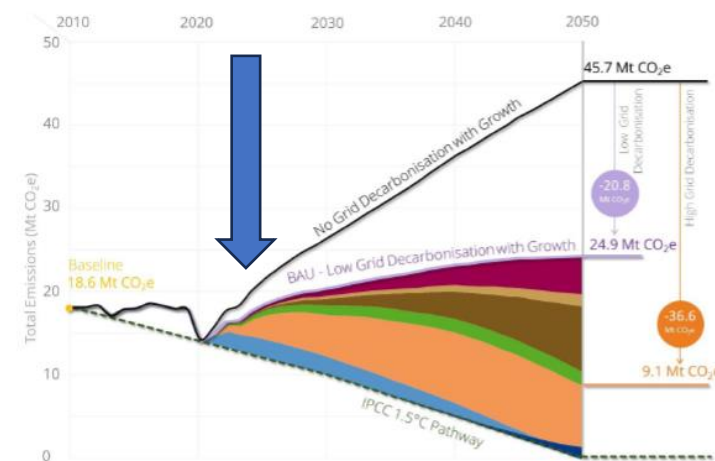
Kyle • UNN • June 5, 2025, 03:33 PM • 2015 views
A Ryanair plane en route from Berlin to Milan made an emergency landing in Memmingen due to a thunderstorm. Nine passengers were injured, some were hospitalized.



(Source: [UNN](#))

Decarbonisation Gap

While momentum exists, a significant proportion of airports lack the technical capacity to establish verifiable baselines or long-term reduction roadmaps.



DECARBONISATION MEASURES

- On-site thermal decarbonisation
- Vehicle fleet decarbonisation
- Energy efficiency measures
- On-site renewables
- Renewable energy purchases
- Offsets
- Negative emissions technologies



ACI APAC & MID Programmes and Tools Supporting Airport Climate Action-Executive Overview

This paper outlines a comprehensive, end-to-end framework developed to assist States and airport operators in meeting critical climate adaptation and decarbonisation targets.

RESILIENCE



Climate Risk Toolkit

Safeguards physical assets and ensures business continuity against escalating severe weather events.

ENTRY POINT



Airport Carbon Accreditation (ACA)

ACA Incentive Programme provides the crucial initial mechanism for capacity building and verifiable carbon baselining at emerging airports.

Airports Selected for 1st Cycle: ADJ, BWX, LAE, PBH, THS, TBU, TRW, ULN, VDH

LONG-TERM



Net Zero Roadmaps

Delivers the strategic CAPEX planning required to transition from carbon management to absolute zero emissions.



ACI APAC & MID Climate Adaptation Tools

A **unified methodology** developed specifically for **APAC & MID airports** to determine **climate risk maturity, climate risks** and **adaptation measures**.

- **1. Assessment Guideline**

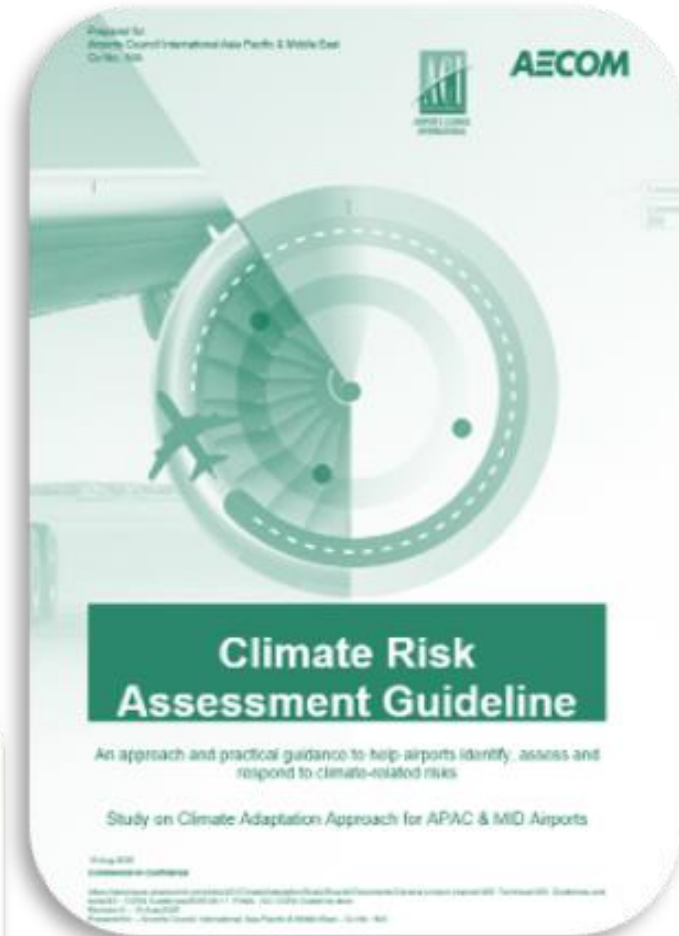
Standardized protocol for identifying hazards and evaluating impacts on critical infrastructure.

- **2. Maturity Check Tool**

Excel based tool evaluating organizational readiness across governance, data management, and operational processes.

- **3. Risk Assessment Tool**

Excel based tool for assigning risk ratings and establishing mitigation priorities.





Examples of Findings (Pilot Phase)

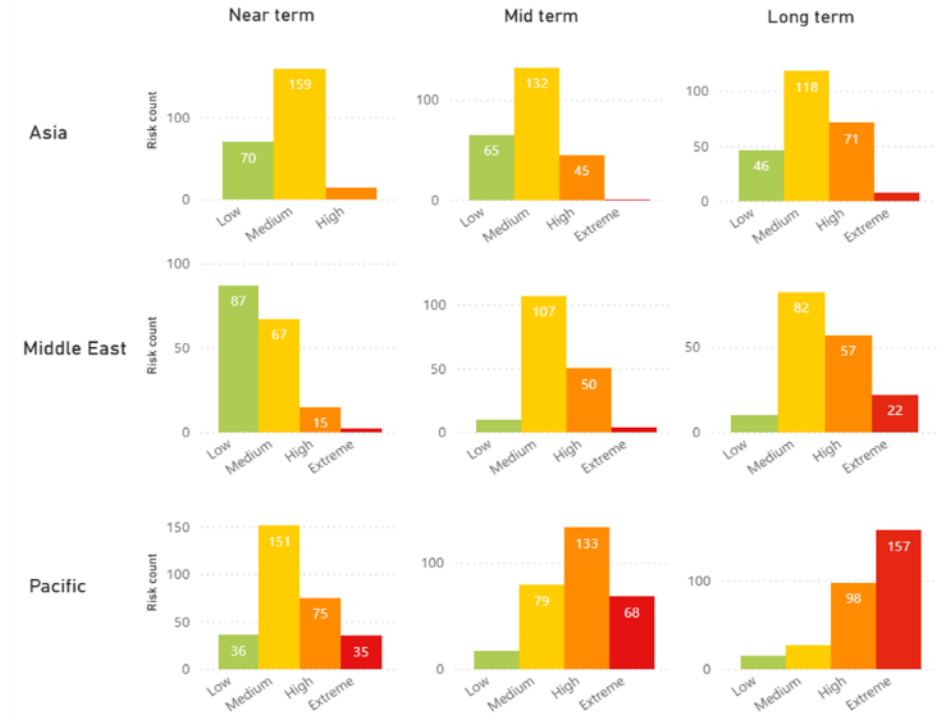
Average Maturity Score across Domains

Region ● Asia ● Pacific ● Middle East



Across all three regions, many domains need improvement especially **“Risk and Adaptation Monitoring”**

Spread of risk ratings across each of the three regions



Across all three regions, a **consistent shift toward more severe risks** over **longer time** horizons. Airports in the **Pacific region** have identified a **greater proportion of high and extreme risks** across all time horizons.



ACA Incentive Programme & Net Zero Roadmap Programme



ACA Incentive Programme

-  Removes financial barriers by fully sponsoring the initial ACA cycle.
-  Provides expert consulting for carbon baselines and third-party verification.
-  Designed specifically for small airports in developing economies.
-  Creates national decarbonisation examples to encourage wider State participation.

Net Zero Roadmap Programme

Structured advisory service providing CAPEX-aligned pathways to achieve absolute zero carbon emissions by 2050.

- 01 Carbon footprint & baseline**
- 02 Analysis, measures to reduce CO2**
- 03 CAPEX & Implementation planning**
- 04 ACA Integration**

Pilot Phase Validation (2024-2025): Riyadh (RUH), Bahrain (BAH), Cebu (CEB)



ACTION BY THE CONFERENCE

The 61st Conference of Directors General of Civil Aviation is respectfully invited to:

Note

The tools and programmes developed by ACI APAC & MID to support airport climate resilience and decarbonisation, including the Climate Risk maturity check tool, Climate Risk assessment guideline and Tool, Regional Climate Dashboard, Net Zero Roadmap Programme and ACA Incentive Programme.

Urge

Urge States to encourage their airports to consider participation in the ACI APAC & MID Net Zero Roadmap and complimentary Climate Maturity Check Tool and Climate Risk Assessment Tool to strengthen aviation preparedness and long-term resilience.

THE VOICE OF ASIA-PACIFIC AND MIDDLE EAST AIRPORTS



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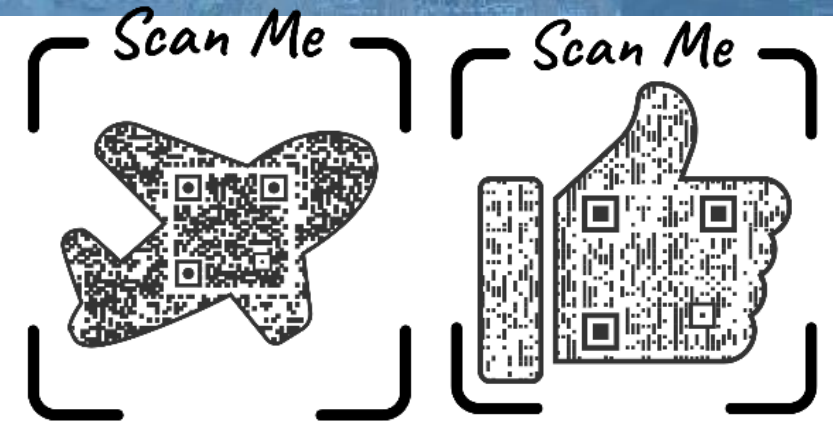
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**Asia-Pacific &
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