



ICAO

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Aerodrome Assistance Working Group (AP-AA/WG/8)

(Bangkok, Thailand, 21 to 24 April 2026)

Agenda Item 3: Aerodrome Certification and Safety Management System

AERODROME SAFETY VIS-AS-VIS ENVIRONMENTAL PROTECTION

(Presented by GMR HYDERABAD INTERNATIONAL AIRPORT LTD. (GHIAL)/
RAJIV GANDHI INTERNATIONAL AIRPORT, INDIA)

SUMMARY

This paper presents that GHIAL places environmental protection and sustainability at the core of its airport operations at Rajiv Gandhi International Airport. Through a strong environmental governance framework aligned with ICAO, DGCA and ESG principles, RGIA has achieved 100% renewable electricity usage, significant carbon emission reductions, and global recognitions such as LEED Platinum and ACI ACA Level 5. With 95% reduction in Scope 1 and 2 emissions already achieved, GHIAL remains firmly committed to its Net Zero roadmap and long term sustainable aviation growth.

1. INTRODUCTION

1.1 GMR Hyderabad International Airport Limited (GHIAL) recognizes environmental protection and sustainability as integral to its business operations. GHIAL is committed to conducting all activities at **Rajiv Gandhi International Airport (RGIA)** in an environmentally responsible and sustainable manner, aligned with our **Vision, Mission, Values & Beliefs, and Corporate Policies**. Through continuous improvement and innovation, GHIAL strives to conserve natural resources, mitigate environmental impacts, and achieve long term sustainability.

2. DISCUSSION

Environmental & Sustainability Policy

2.1 GHIAL is committed to climate change mitigation through long term and absolute reduction of greenhouse gas (GHG) emissions, with a clear roadmap towards net zero carbon emissions, in alignment with national and international sustainability frameworks.

Green Building Initiatives

2.2 Rajiv Gandhi International Airport has demonstrated leadership in sustainable infrastructure development. The Passenger Terminal Building was awarded the LEED Platinum Certification by the United States Green Building Council (USGBC) on 23 April 2025.

LEED – Leadership in Energy and Environmental Design is a globally recognized green building certification system that promotes sustainability, energy efficiency, and environmental stewardship.

100% Renewable Electricity Usage

2.3 RGIA operates entirely on renewable electricity for airport operations:

- Effective 01 June 2023, GHIAL has been procuring 86% green power from the state electricity grid.
- 14% of electricity requirements are met through 10 MWp onsite solar power generation.
- This transition results in the prevention of approximately 55,609 tonnes of CO₂ emissions per year.
- Consequently, Scope 2 emissions are zero.

Airport Noise and Air Emission Management

2.4 GHIAL continues to reduce airside emissions and noise impacts through multiple initiatives, including:

- **Progressive replacement of conventional fuel based Ground Support Equipment (GSE) with electric and solar powered GSE.**
- Installation of **Bridge Mounted Equipment (BME)** at Passenger Boarding Bridges, including **Fixed Electric Ground Power Units (FEGPU)** and **Pre Conditioned Air (PCA)** systems, minimizing aircraft auxiliary power unit (APU) usage at gates.

Net Zero Carbon Target Journey

2.5 GHIAL has adopted a clear and time bound decarbonization pathway:

- **Scope 1 & Scope 2 Net Zero Target: 2035**
- **Scope 3 Net Zero Target: 2050**

Significant progress has already been achieved:

- **95% reduction in Scope 1 and Scope 2 emissions** has been accomplished by **2025**, compared to the **2010 baseline carbon footprint**.
- This reduction has been primarily driven by renewable power procurement and onsite solar energy generation.

Conclusion

2.6 GHIAL's sustainability journey reflects a strong commitment to responsible airport operations, climate resilience, and long term value creation for all stakeholders. Through proactive environmental governance, large scale adoption of renewable energy, sustainable infrastructure development, and continuous reduction of carbon emissions, Rajiv Gandhi International Airport has positioned itself as a leading example of environmental stewardship in the aviation sector.

The achievement of globally recognized certifications such as LEED Platinum and ACI Airport Carbon Accreditation Level 5, coupled with significant progress towards Net Zero targets, underscores GHIAL's alignment with ICAO environmental objectives, DGCA regulatory expectations, and ESG best practices.

GHIAL will continue to strengthen its environmental management systems, collaborate with stakeholders, and adopt innovative solutions to support national and global climate goals, while ensuring safe, efficient, and sustainable airport operations for the future.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) share experiences and best practices on airport environment protection; and
- c) discuss any relevant matters as appropriate.

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