Decarbonization Plan of Delhi Airport

Presented in ACI- Asia Pacific Regional Assembly

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Decarbonization Actions by Delhi Airport



First Level 4+ Airport in Asia Pacific

Only the Second Airport globally to achieve this Level

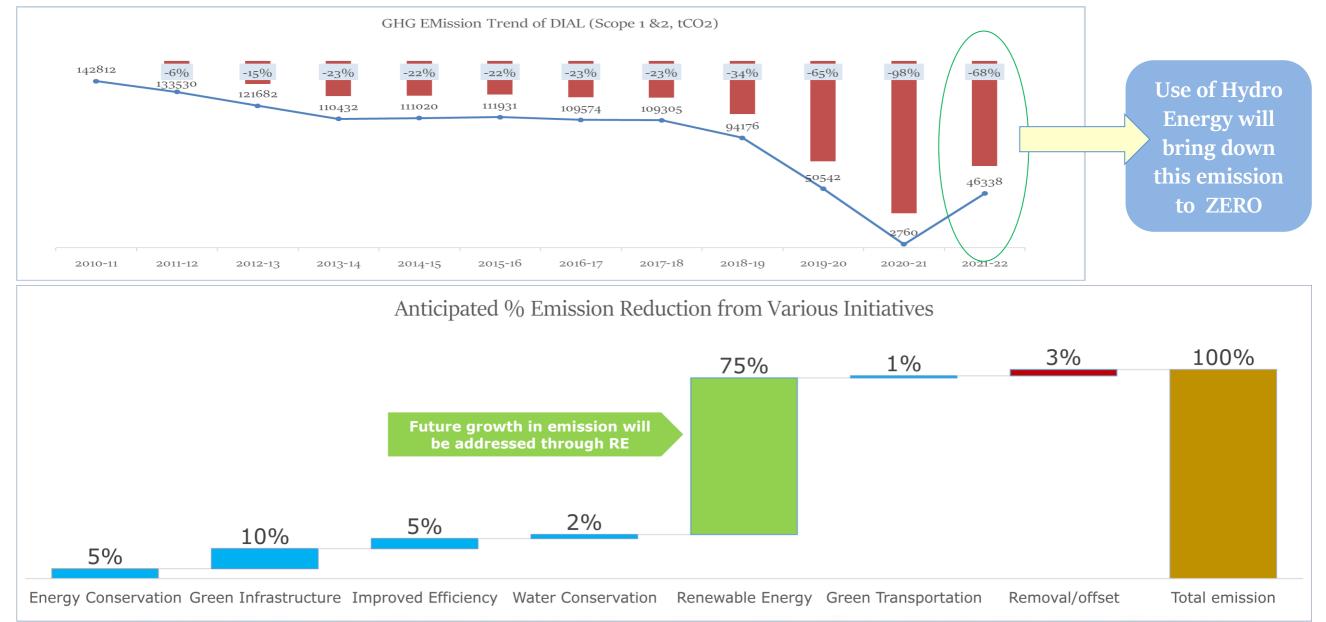
Level 4+ achievement demonstrates DIAL's emission reduction target in line the **IPCC** 1.5°C pathways.



Key Focus Area Energy Use of renewable **Develop Green Operational Conservation &** Infrastructures Excellence energy **Efficiency Net Zero Airport by 2030 Low Carbon GHG Management Increased Sink Airlines Programs** and ACA **Transport** Scope 1 & 2 Scope 3

Trends & Projection





Key Emission Reduction Projects

TaxiBot



(Onsite & Offsite) Green Energy

7.84 MW Solar PV (onsite) & PPA with Hydro Plant (offsite)



Approx. 430 t of ATF and ~1350 tCO2 reduced



MoU signed for SAF Study

Aviation Fuel Sustainable



~55000 tCO2 will be reduced annually Cross Taxiway Eastern



Targeting for LEED Platinum



Redevelopment

Terminal

DIAL's Road Map Towards Net Zero & Status



S. No	Initiatives	Tasks	Scope	Action Items
1	Target & Objective setting	Targets to reduce energy emission	All	 Set policy commitment to reduce absolute CO₂ emission from emission sources under DIAL's control Set long term emission reduction goal in line with IPCC 1.5 Degree scenario
2	Airport wide GHG mitigation drive	Create an Airport wide Carbon Management Working Group	All	 Top management forum Carbon Management Task force Training & knowledge sharing Within airport benchmarking for stakeholders & recognition
	Carbon Management Plan	Energy Conservation & 1, 2 Efficiency 1, 2 Improve energy efficiency and conservation 1, 2	1, 2	Regular energy audits & review by internal team
			1, 2	External audit after every 5 years
			1, 2	Adopt Energy Management System – ISO 50001 and 3rd Party certification
3			1, 2	 Adopt energy efficient operational practices Adopt life cycle cost approach in the business analysis
		Develop Green Infrastructures- • Adopt & Review ECBC/Green Building norms	1, 2	 Appropriate Design & maintenance of airport with selection of Electrical and Mechanical units such as DG sets, HVAC system & Lightings in Terminals. Use of Energy Efficient MEPs and Aviation System

Completed

Ongoing

DIAL's Road Map Towards Net Zero & Status



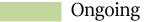
S. No	Initiatives	Tasks	Scope	Action Items
		Adopt & Review ECBC/Green Building norms	2	Optimize natural light at terminals to the maximum extent in Terminals
	Carbon Management Plan	Focus on water management	2	Design Airport infra to Implement Rainwater Harvesting & Rain Water Storage facility
				• Design Airport infra to recycle/reuse treated water from STP for landscaping, toilets & flushing.
3		Renewable Energy:	2	Maintain on-site solar plant
		Enhance Renewable Energy development & utilization		Explore the use of offsite renewable energy to meet remaining demand
4	Stakeholder Partnership Plan	Operational Excellence: Reduce emissions from aircraft at air/ground	3	Reducing holding time, delays etc. by working with relevant stakeholders.
		Reduce Ground emission	3	Promoting emission reduction initiatives in collaboration with ATC

DIAL's Road Map Towards Net Zero & Status



S. No	Initiatives	Tasks	Scope	Action Items
	Stakeholder Partnership Plan	Airlines Programs:		Promote the use of BMEs by aircrafts in order to reduce APU emissions
		Promote green initiatives for	3	Promote Single engine taxi in and out
		emission reduction		Promote use of TaxiBots
4		Low Carbon Transport:		Reduce emissions from airside vehicles by working with partners through adopting electric
		Promote energy efficient and	1,3	and other clean fuel vehicles
				Develop EV charging infrastructure to support the operational needs of airside vehicles and
		alternate fuel vehicles		encourage the uptake of EVs
	Increased	Develop Sink:	All	
5	Sink	Natural emission absorption		Develop carbon sinks by onsite tree plantations
	Emission Management & Offsetting	sources and adopt residual		Develop an annual inventory of airport emission
			All	Airport wide GHG Accounting framework
6				• Adopt Airports Council International – Airport Carbon Accreditation (ACA) Program (Highest
0				Level, Level 4+)
				Purchase carbon credits for offsetting residual emission
		carbon offsets from Markets		• (Scope 1, 2 & limited scope 3 as per ACA program)

Completed





Thank you