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ICAO/ACI Sustainability Seminar

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Almaty International Airport

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AIRPORT CARBON ACCREDITATION: BUILDING THE BASELINE

First in Kazakhstan to follow the ACA pathway

Almaty International Airport has completed a comprehensive carbon emissions inventory covering all airport facilities and has calculated its carbon footprint using internationally recognized methodologies, including those of ICAO and the GHG Protocol. This work supported the Airport's achievement of **Level 1** – Mapping under the Airport Carbon Accreditation (ACA) program. The assessment included the analysis of key sources of CO₂ emissions such as energy consumption, fuel use, equipment and machinery operation, and apron activities, alongside the establishment of emission monitoring and control at critical sites.

Measure

Understand the footprint



Reduce

Act on airport sources



Engage

Work with airport partners



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MEDIA

Almaty International Airport becomes Kazakhstan's first airport to join Airport Carbon Accreditation



DECARBONIZATION ACTIONS



Airport electric GH equipment fleet

The airport is beginning transitioning from diesel-powered ground handling equipment to electric alternatives. This transition would support the gradual reduction of fuel consumption and direct emissions from ground operations, while also contributing to lower noise levels and improved environmental performance on the apron. Airport is the first airport in Central Asia to introduce an electric aircraft towing tractor.



More efficient airfield lighting

One of the projects currently underway is the replacement of 93 halogen aerodrome signs with LED technology. The existing signs require approximately 30 kilowatts of power in total, whereas the LED signs will require only about 5 kilowatts. So, we are looking at approximately an 83% reduction in installed power demand for these signs.



GPU and PCA usage by the Airlines

Since January 2026, APU use has been restricted at all Terminal 2 PBB stands. The core purpose is to **minimize the aircraft's carbon footprint** (emission and noise) through the mandatory utilization of Fixed Electrical Ground power (FEGPU) and Pre-conditioned Air (PCA). The requirement was formally communicated to airlines, published by NOTAM, and subsequently incorporated into the AIP.

NEXT STEPS IN DECARBONIZATION



Solar farm project

At least 10 MW within airport territory to cover a significant part of own electricity consumption and **radically reduce Scope 2 emissions.**



Runway LED conversion

Quartz-halogen lights on runway 05L–23R and later 05R–23L to be replaced with LED lighting, targeting around **80% lower** installed power demand.



ISO 50001

A structured energy management system to monitor consumption, identify **energy efficiency** opportunities and set measurable energy-performance objectives.



Heating modernization

Energy-efficient heating modernization at Ground Handling Village and Hangars. Replacement of the existing steam heating system with **high-efficiency gas-fired boilers** to reduce energy losses and improve overall heating efficiency.

Renewable electricity



Lower power demand



Energy efficient



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THANKS FOR
WATCHING!