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ICAO/ACI Sustainability Seminar

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Almaty International Airport

09.10.2026

SUSTAINABLE PROJECTS - WATER PROTECTION

First dedicated industrial de-icing facility in Kazakhstan

Almaty International Airport has completed the construction of a specialized facility with an artificial surface for aircraft de-icing. The pad is equipped with a system to collect used de-icing fluid from the surface and divert it into storage tanks for transferring to subsequent recycling. The paved pad captures fluid used during aircraft de-icing before it can spread across the apron.



Type 1	Type 2	Total
Total mix consumption 1.748.770 L	Total mix consumption 500.417 L	1833 treatments completed over the season

Environment value

Recycling and reducing unnecessary truck movements and fuel use on the airfield.



SUSTAINABLE PROJECTS – MANAGING GROUND NOISE

Minimizing ground noise reaching adjacent buildings

Our environmental approach is not limited to carbon and energy efficiency, we also focus on minimizing the impact of airport operations on adjacent buildings. As part of our noise mitigation measures, we have installed a noise protection barrier. The barrier is designed to reduce the impact of operational noise on adjacent buildings and demonstrates our commitment to managing the airport's local environmental impacts alongside its continued development.

Length Total length of the noise barrier is **892 meter**

Height Height of the noise barriers reaches **4 meter**

The height of the noise barrier was determined considering the location of runway 05R and the obstacle limitation surfaces.



SUSTAINABLE PROJECTS – ADDRESSING POLLUTION

Improving Air Quality Through Smarter Access

The airport is addressing local air emissions through the way people arrive, staff commute and materials are reused. We are taking a broader approach to local air quality by addressing ground transport pollution. Our initiatives focus on cleaner ground access, more sustainable staff mobility, circular use of construction materials, and future public transport connectivity — helping reduce emissions associated with airport access and infrastructure development.



Electrify access

EV charging for passengers, employees and partners



Reuse materials

Runway concrete planned for reuse where suitable



Metro extension – airport is prepared for high-quality connection

Lower-emission access option for passengers and employees.



Staff commuting

Staff shuttles and remote work reduce individual trips

SUSTAINABLE PROJECTS – WASTE MANAGEMENT

Development of dedicated industrial waste collection area

The airport is planning to construct a dedicated area for industrial waste collection and segregation. The facility will support the proper collection, segregation and temporary storage of hazardous and non-hazardous waste, followed by transfer to specialized companies. This supports controlled handling of hazardous waste and keeps recoverable materials available for recycling.

Non-hazardous waste

Separate for suitable collection and treatment

Hazardous waste

Keep separate for controlled handling and transfer

Recyclables

Sort for recovery where technically viable



Separate streams enable safer handling and higher-value recovery.



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THANKS FOR
WATCHING!