

CONSULTANT & CONTRACTORS

Skanska will construct a new parking garage and implement modernisation improvements at Logan Airport (Massachusetts, United States) under a USD 450 million contract with the Massachusetts Port Authority (Massport). This project, part of Massport's NCEC Program, includes building a 67,400 m² multi-story Terminal E Parking Garage with 5,000 parking spaces and ground transportation facilities. Additional features include a vehicular bridge connecting to the central parking complex, a pedestrian bridge linking Terminals E and C, and modifications to Arrival and Departure roadways.

The garage will integrate solar panels on its façade and roof to reduce electricity consumption and aims to achieve Parksmart certification for sustainable design. Construction begins in early 2025, with completion targeted for 2028. #1233.CON1

Manchester Airports Group (MAG) has unveiled its Airfield Infrastructure Framework, set to guide airfield development projects across its three airports—Manchester, London Stansted, and East Midlands—over the next five to eight years. The framework encompasses key projects such as runway resurfacing, aircraft stand development, airfield ground lighting systems, and general airfield improvement works aimed at enhancing airport infrastructure and passenger experience. Strategic partnerships have been established with leading design consultants and contractors, including Ove Arup and Partners, Jacobs, Volker Fitzpatrick, Lagan Aviation & Infrastructure, Dyer & Butler, Allied Infrastructure, and Amalgamated Construction Ltd. These collaborations are expected to foster a more integrated approach to MAG's capital development and sustainability goals, including achieving net zero operations by 2038.

MAG Procurement and Contracts Director, Terry Fitzmaurice, highlighted the importance of these partnerships in ensuring effective delivery of the group's capital investment projects while promoting sustainable supply chain practices. The framework reflects MAG's commitment to long-term infrastructure development and operational excellence across its airport network. #1233.CON2

Swedavia AB, Sweden's airport operator, has awarded K2 Projektledning AB a USD 182,000 contract for project management services for the expansion of Terminal 5 at Stockholm Arlanda Airport (Sweden). The project, currently in its early feasibility study stage, focuses on planning future expansions. It involves disciplines such as architecture, fire safety, and construction. The project management role will work closely with the client and project team, covering tasks across the Terminal 5 PBI cluster. #1233.CON3

Aena has awarded Brazilian construction company HTB the contract for the design and complete redevelopment of São Paulo-Congonhas Airport (São Paulo, Brazil), marking Aena's largest project outside Spain. The investment totals around USD 325 million and includes a new passenger terminal that will double its current size, add more boarding bridges, and provide 20,000 m² of commercial spaces. This project is expected to generate over 10,000 jobs during its execution, significantly boosting the local economy.

Congonhas, Brazil's second-busiest airport after São Paulo/Guarulhos, primarily handles domestic traffic and served 22.1 million passengers in 2023. Its strategic location within São Paulo's urban area plays a crucial role in supporting the region's economy, as 10% of Brazil's GDP is generated within 15 km of the airport.

HTB, with over 40 years of experience, will begin construction in January 2025. This development is part of Aena's broader commitment in Brazil, where it operates 17 airports, managing 20% of the country's air traffic and serving over 40 million passengers annually. Since entering the Brazilian market five years ago, Aena has invested over USD 1.08 billion in infrastructure, technology, and sustainability, positioning its airports at the forefront of the sector.

Aena highlights its commitment to sustainability, recognising Brazil's environmental richness. Globally, Aena manages 79 airports and two heliports across six countries, including Spain, the United Kingdom, Mexico, Jamaica, and Colombia. #1233.CON4

Environment & Sustainability

Edinburgh Airport (Scotland) is set to pioneer the use of innovative Wind Panel technology to harness renewable energy from low-level, gusty winds on its airfield. Developed by Katrik Technologies with support from Bosch, these compact 2m x 2m panels are designed to capture kinetic energy from ground-level winds, offering a more space-efficient alternative to traditional wind turbines, which are unsuitable for airport environments.

Following an 18-month trial to identify optimal locations for the panels, the first prototypes will be installed in a publicly visible area, showcasing the technology in action. This initiative aligns with Edinburgh Airport's sustainability strategy, which already includes an 11-acre solar farm meeting up to 25% of its energy needs as part of its commitment to achieving net-zero emissions.

Katrik Technologies' Wind Panels use patented aerofoils to maximise energy capture, converting wind energy into mechanical oscillations and then into usable energy. This partnership highlights Scotland's role in advancing green energy solutions and Edinburgh Airport's commitment to innovation and sustainability. #1233.CON5

Flughafen Zürich AG will begin construction in April 2025 on a USD 55 million revitalisation project for the River Glatt near Zurich Airport, transforming a canalised section between Opfikon and Rümlang into a natural watercourse. Spanning 3,250 metres and covering 31.3 hectares, the project includes creating new river bends, shallow banks, reed meadows, and planting 950 trees.

It aims to establish valuable habitats for plants and animals while enhancing flood protection and providing new recreational areas with paths, rest zones, and water access for the public.

The project is an ecological compensation measure for habitat impacts caused by Zurich Airport's expansion. The removed soil will be repurposed to improve agricultural areas in Furtal. Construction will take three years, with preparatory work starting in January 2025.

This initiative promises ecological and community benefits by fostering biodiversity and expanding leisure spaces in the vicinity of the airport. #1233.CON6

Zurich Airport Ltd. and Synhelion have entered a five-year agreement to pioneer the use of solar fuels, with Zurich Airport set to purchase 30,000 litres of solar-diesel annually from 2027. This fuel, produced at Synhelion's RISE plant in Spain using solar energy, reduces net CO₂ emissions by up to 99% compared to fossil fuels. Initially, it will power airport passenger buses, expanding later to special vehicles lacking electric drives. The agreement underscores Zurich Airport's commitment to achieving net-zero emissions by 2040 without offsetting, complementing its ongoing transition to electric vehicles.

The collaboration, which began in 2020, positions Zurich Airport as a trailblazer in supporting breakthrough sustainable technologies. Synhelion's CEO, Philipp Furler, emphasised that the agreement marks a milestone for scaling solar fuels and advancing the energy transition. Other companies, such as

Pilatus Aircraft and Lake Lucerne Navigation Company, have also signed similar agreements, highlighting the growing demand for innovative carbon reduction solutions. #1233.CON7

Capodichino Airport (Naples, Italy) has achieved the highest sustainability certification, Level 5, under the Airport Carbon Accreditation (ACA) program. This prestigious recognition reflects the airport's commitment to managing, reducing, and neutralising CO2 emissions since joining the ACA in 2013.

Over the years, the airport has consistently met ACA targets, achieving significant milestones such as Level 3+ Neutrality in 2018 and Level 4+ Transition in 2022, aligning with the Paris climate goals. The new Level 5 certification, introduced in 2023, acknowledges the airport's efforts to reduce both direct and indirect emissions through a strategic decarbonisation plan and collaboration with employees, suppliers, airlines, and third-party companies. This achievement underscores Capodichino Airport's leadership in sustainability within the aviation sector. #1233.CON8

Adelaide Airport (South Australia, Australia) has become the first major airport in the country to achieve carbon neutrality. Since 2018, the airport has reduced carbon emissions by nearly 90% through energy efficiency upgrades, increased onsite renewables, and sourcing 100% renewable electricity from a local wind farm. Residual Scope 1 emissions, such as gas use in terminals and fuel for operational vehicles, are offset through certified Australian Carbon Credit Units purchased from a land regeneration project in South Australia's Gawler Ranges.

The airport eliminated Scope 2 emissions related to electricity usage as of 1 January 2024 through its renewable energy agreements. Looking forward, it plans to transition terminal gas systems to electric and replace fleet vehicles with hybrid or electric alternatives as part of its asset replacement cycles.

Adelaide Airport aims to reduce Scope 1 and 2 emissions entirely by 2030 and achieve net-zero emissions by 2050, including flight-related emissions. Recent initiatives include installing over 3,700 solar panels on terminal roofs to triple its existing solar capacity and upgrading terminal and runway lighting to LEDs.

The airport is also collaborating with the South Australian Government and partners to assess a sustainable aviation fuel production facility in Whyalla. These efforts are part of its broader decarbonisation strategy to support renewable energy and sustainable practices. #1233.CON9

SAF & Hydrogen

The International Finance Corporation (IFC) is investing USD 35 million in Pakistan's first sustainable aviation fuel (SAF) facility, located in Sheikhpura, Punjab. The project, developed by SAFCO Venture Holdings Limited, will convert 250,000 tons of used cooking oil and waste oils annually into SAF, reducing more than 500,000 tons of CO2 emissions each year.

The USD 35 million financing package includes USD 30 million in equity, with USD 20 million from IFC's account and USD 10 million from a climate-related blended finance program supported by the UK Foreign Commonwealth & Development Office, along with USD 5 million in debt.

The facility, with an annual capacity of 200,000 tons, is expected to create 300 direct jobs and 20,000 indirect jobs in the waste-to-fuel value chain. It will also generate foreign exchange revenue for Pakistan through SAF exports. SAF, which can reduce greenhouse gas emissions by up to 94% compared to conventional jet fuel, is critical to lowering emissions in the aviation sector, which accounts for 13.9% of global transport-related emissions. #1233.CON10

The Australian Renewable Energy Agency (ARENA) has committed USD 14.1 million to two projects under its Sustainable Aviation Fuels (SAF) Funding Initiative to support the development of a domestic SAF industry and reduce aviation emissions in Australia.

Ampol will receive USD 8 million for a USD 30.2 million Pre-FEED study to develop a renewable fuels facility at Brisbane's Lytton refinery. The facility aims to produce over 450 million litres per year of SAF and renewable diesel, equivalent to 5% of Australia's 2019 jet fuel consumption.

GrainCorp will receive USD 6.1 million for a USD 19.8 million feasibility study to establish an oilseed crushing facility capable of producing 330,000 tonnes per year of canola oil as a feedstock for SAF production. This would account for approximately 12% of Australia's annual canola exports.

The projects aim to decarbonise aviation, which contributes 2% of Australia's greenhouse gas emissions, by building a renewable fuels supply chain and leveraging local resources. ARENA's SAF initiative follows its 2021 Bioenergy Roadmap, which identified SAF as a key opportunity to meet up to 19% of Australia's aviation fuel demand by 2030. #1233.CON11

Names

The Ontario International Airport Authority (California, United States) has appointed Adrianna Ortiz as Director of Planning, effective 2 December 2024. In her new role, Ortiz will oversee airport and environmental planning, regulatory compliance, sustainability initiatives, and the execution of Ontario International Airport's capital improvement programme.

Ortiz brings extensive experience in urban and environmental planning, project leadership, and compliance. She previously served as Assistant Director of Planning for 4Leaf Inc., managing large-scale development projects and environmental compliance. She has held roles with the San Bernardino County Department of Airports and other organisations.

Expressing enthusiasm for her new position, Ortiz highlighted the airport's pivotal role in regional growth and connectivity. She holds bachelor's degrees in leadership management and urban planning and a master's in leadership management, all from California universities. #1233.CON12

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