

Newcastle Airport

Runway Rehabilitation & AGL Upgrade

Turnkey Solutions

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Project Key Facts

Client Name | Tarmac

Location | Newcastle Airport - UK

Dates | Nov 2024 - Mar 2025

ATG airports recently completed a significant infrastructure upgrade at Newcastle International Airport, centred on the full replacement of runway and taxiway lighting and associated circuit transformers and secondary cabling, along with replacement Taxiway guidance signage. This essential project was undertaken to modernise the airport's lighting systems and improve long-term operational efficiency and reliability.

The project was entrusted to atg airports' in-house Airfield Ground Lighting Installation team, whose technical expertise and project management skills were instrumental in delivering results within a challenging timeframe. Working exclusively during night shifts, the team was able to carry out the work with minimal impact on the airport's day-to-day operations. This approach not only maximised productivity but also ensured the project could proceed uninterrupted in a live airfield environment.

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The primary goal was to enhance the dependability of the runway lighting system, a critical component of any airport's operational framework.

To achieve this, the atg airports team undertook a complete overhaul of the existing circuits. This involved precision planning, and close coordination with the airport's engineering and operations teams. Over a series of night shifts, the AGL specialists systematically removed outdated equipment and wiring and installed new secondary cabling throughout the runway lighting system. Each circuit was carefully rewired, calibrated, and tested to ensure optimal performance and full compliance with regulatory standards. The complexity of the work required not only technical knowledge but also flexibility and precision, especially given the need to work within restricted operational windows.

In addition to the extensive rewiring, the project also included the installation of new constant current regulators (CCR's) and electrical supply upgrades. These modern CCR's deliver improved energy management and ensure consistent performance across the lighting network, regardless of changes in load or environmental conditions. The installation of this technology will contribute to reduced operational costs and improved system longevity. The scope of work further encompassed an upgrade to the airport's airfield ground lighting control and monitoring system.





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Throughout the project, the coordination between atg airports the main contractor and Newcastle Airport was exemplary. Clear communication, detailed planning, and proactive problem-solving ensured that all stakeholders remained aligned at every stage. The project was delivered on time, without any delays to airport operations, and met all technical specifications and performance expectations.

The outcome is a robust and future-ready lighting system that offers Newcastle Airport increased reliability, improved energy efficiency, and reduced maintenance requirements. These enhancements not only support the airport's operational targets but also help reduce its environmental impact by lowering overall power consumption and system downtime.

This project is a strong example of atg airports' commitment to delivering innovative, efficient, and sustainable airfield solutions. It also highlights the value of having an experienced, self-delivering AGL installation team capable of managing large-scale infrastructure upgrades from planning through to commissioning. By successfully completing this critical upgrade, atg airports has strengthened its long-standing relationship with Newcastle Airport and reaffirmed its role as a trusted partner for AGL projects across the UK and beyond. The project stands as a testament to the company's technical capabilities, strategic execution, and commitment to delivering high-quality results that support the evolving needs of the aviation industry.



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