





## **Airports**

Our service delivery encompasses asset assessments, power system planning and concept development through to detailed design and commissioning support.

Middleton Group brings to your airport project the technical excellence of more than 90 engineers with broad experience in airport power and energy projects...

Whether it's a high-voltage substation, EV infrastructure such as a solar car park, back-up generation or grid connection advice, we get the power where it needs to be.

### Airports services

Our airports clients enjoy greater value working with Middleton Group as we understand their specific risks and issues, their stakeholders and their delivery partners.

Testing and commissioning support

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Control Civil / Design & **HV Systems** LV Systems **Delivery Services Systems** Structural Control **HV** reticulation LV reticulation Greenfield & philosophy/ inc. trench & pit inc. cable **Farthworks** brownfield sites functional containment design description RMU & HV Switchboard PLC and RIO Concept design switchboard **Pavements** sizing & design panel design design Power system Transformer Network studies (load flow, Detailed design **Foundations** design short circuit, architecture harmonics, arc flash) Earthing & Communication Cutover lightning systems (eg Steel structures planning protection IEC61850) Machine safety HV protection & Switchroom Owner's I/O schedules engineering relay logic design Embedded generation Equipment Engineering & Equipment & specifications Retaining cable (VSDs, PFCs, structures secondments specifications EV charging etc) 3D BIM & digital Pits engineering **BESS** Safety workshop facilitation



#### WHY CHOOSE US

- Optimisation during conceptual design phases to benefit our clients and provide significant cost savings
- Extensive technical experience in the power industry, from design and construction through to project delivery
- Proven ability to design and assess against industry standards as well as client-specific standards
- Airports have many stakeholders. We offer strong stakeholder engagement and relationship management experience

#### PROJECTS BY OUR TEAM

- Bankstown Airport: HV Kiosk Substation replacement – detailed design (2025)
- Sydney Airport: DPS Kiosk Substation Owner's engineer (2025)
- Sydney Airport: T2 Load Re-Allocation
- Melbourne Airport: Upgrade / extension of 22 kV reticulation network
- Melbourne Airport: Protection tripping root cause analysis and setting update at 22 kV intake substation
- Melbourne Airport: Converted and rectified 3d survey data to conform with APAM asset management system.
- Melbourne Airport: Design reviewer for the "Kiss and Ride" facility



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WATER



**ENERGY** 



**TRANSPORT** 



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