

Electrical



About EIC Activities

EIC Activities is CIMIC Group's engineering and technical services business.

Our engineering and risk mitigation expertise provides CIMIC Group with a competitive advantage for winning and delivering profitable projects that also generate value for clients.

EIC Activities ensures the Group's collective experience, technical capabilities, innovations and leading-edge technology applications are leveraged to deliver our client's objectives.

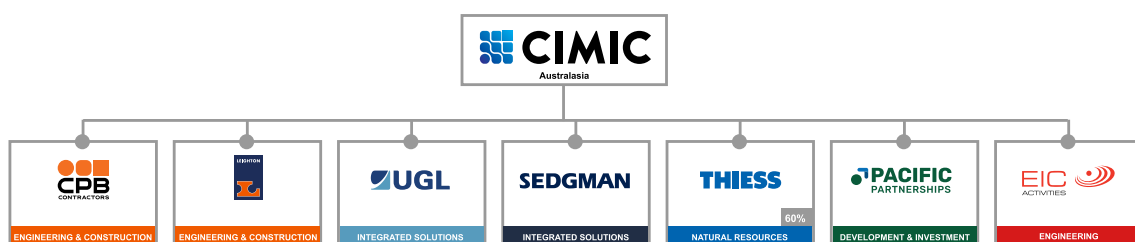
About CIMIC Group

CIMIC Group is an engineering-led services, construction and natural resources leader with a history dating back to 1899.

Powered by 39,000 people, and pioneering technology and engineering, we deliver high-value and sustainable solutions across the lifecycle of assets, infrastructure and resources projects in around 20 countries.

CIMIC Group comprises our engineering and construction businesses CPB Contractors and Leighton Asia, our integrated solutions providers UGL and Sedgman, our natural resources company Thiess (60% ownership), and our development and investment arm Pacific Partnerships – all supported by our in-house engineering consultancy EIC Activities.

Our mission is to generate sustainable returns by delivering innovative and competitive solutions for clients and safe, fulfilling careers for our people. We strive to be known for our principles of Integrity, Accountability, Innovation and Delivery, underpinned by Safety.



Our electrical services

As a member of CIMIC Group, EIC Activities provides services to CIMIC's Operating Companies exclusively. Our engineers are dedicated to work in the best interests of our clients in order to mitigate risk and identify opportunities to create value.

To achieve this, EIC Activities' electrical team provides the following services:

- advice on engineering partners and major vendors to support bid strategies
- design for concept development, feasibility and planning, and temporary works
- systems engineering and integration development strategies
- detailed design review and optimisation
- delivery phase technical design services, reviews and construction support
- commissioning and handover assistance including expert review and advice
- ongoing technical support during the defects liability stage
- troubleshooting electrical technical issues.

Our electrical capabilities

The EIC Activities electrical team works across multiple sectors including: building, infrastructure, resources, water and energy. The team provides a range of engineering services throughout the project life cycle.

Our electrical capabilities and expertise include:

- earthing and bonding
- building management systems
- power system analysis
- high and low voltage electrical systems
- lighting design
- PV system modelling.

Case studies

Melbourne St and BCEC busway tunnels - UGL Transport

Detailed electrical design

EIC Activities was engaged to provide electrical design services for replacement of the ageing lighting control system in the Melbourne St and BCEC (Brisbane Convention and Exhibition Centre) busway tunnels. This critical system had reached the end of its life and could no longer be maintained. UGL had an approved design concept in place and needed the help of EIC Activities' electrical team to develop and review the IFC design and provide RPEQ approvals to the asset owner.

Design included:

- design calculations for refurbishment of LV systems, UPS, fieldbus network
- electrical schematics for main PLC control panel and 81 remote switching nodes
- assist in selection of components and cabling
- electrical panel layouts
- factory and site acceptance test planning and attendance.

EIC Activities' team also assisted in reviewing the control system integrator's software development, as well as integration of existing building services nodes into the new installation. The end result was a well-documented and compliant installation with an improved degree of redundancy that will ensure safe operation of the tunnel in all ambient lighting conditions.



Contacts



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Principal - Electrical

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Summary

- over 25 years' experience in electrical, instrumentation and controls (EI&C) engineering
- BEng (Hons) – Electrical, MEngSc – Electrical, CPEng, NER, RPEQ, RPEV
- has held various project development, design and commissioning roles on a range of projects in Australia, Canada, SE Asia and Chile.

Relevant experience

- concept design, estimation and definition of EI&C scope for mineral processing and materials handling projects
- detail design and commissioning of HV/LV electrical distribution, motor controls, instrumentation and control systems
- managed teams of engineers in delivery of EI&C projects globally
- experienced across manufacturing, mineral processing, materials handling sectors and general infrastructure.



Graham Buckley

Principal - Electrical

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Summary

- over 25 years' electrical engineering experience in mining, heavy industry, infrastructure, construction and oil and gas projects in Australia
- BEng - Electrical and Electronics (Hons), MIEAust, CPEng, RPEQ, RPEV, NER, APEC Engineer, IntPE(Aus)
- continuous professional development in the fields of hazardous areas classification and design, project management, power quality, electrical protection and auditing.

Relevant experience

- held senior engineering roles for detailed design and project delivery including procurement, construction and commissioning
- extensive experience in a broad cross section of industries (process plants, oil and gas, road tunnels, rail, water, food) with engineering roles including maintenance/operations, design, construction, project management as well as commissioning
- experienced in MV and LV electrical protection design
- dedicated to delivering safety in all stages of a project lifecycle.



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A MEMBER OF THE CIMIC GROUP

