

# EMPOWER3D

*Turning Complexity into Clarity*

## Capability Statement

Empower3D Pty Ltd  
ABN 23 684 621 190  
Lic No. 1507107  
[www.empower3d.com.au](http://www.empower3d.com.au)





# Welcome to Empower3D

**Empowering** Your Business Through Modern, Innovative Solutions

EMPOWER3D is an RPEQ-certified electrical consultancy and contractor, led by trade-qualified engineers and technicians who deliver smart, practical solutions for complex infrastructure environments.

We specialise in operating within live, high-risk settings—where compliance, safety, and stakeholder coordination are critical to success.

With combined expertise in design, project management, and delivery, we support projects from technical concept through to on-site execution.

By blending field-proven knowledge with modern tools like 3D scanning and digital modelling, we turn complexity into clarity—ensuring every solution is constructible, compliant, and aligned with your operational requirements.

# OUR CAPABILITIES

Integrated technical support from concept through to delivery.

EMPOWER3D brings together electrical engineering, project delivery, and field experience to offer fully integrated support for critical infrastructure projects. Our focus is on achieving compliance, constructability, and operational alignment — not just technical correctness. Whether leading a shutdown, resolving latent delivery risk, or modelling a future upgrade, we help clients make decisions that hold up in the field.

## Electrical Design (RPEQ)

Compliant and constructible designs for electrical and communication systems and upgrades

## System Audits and Modelling

Condition assessments and digital modelling of your electrical system

## Embedded Project Support

Full lifecycle support from scope to closeout, including live-site coordination

## Project Delivery

Electrical trade qualified engineers and technicians provide seamless execution and quality assurance

## Stakeholder Engagement

Experienced in managing operational, airline, and terminal stakeholder needs

## Procurement & Scope Advisory

We support procurement through lead-time forecasting, constructability-informed decisions, and risk-aligned scope definition.

## Project Types We Support

- Switchboard upgrades in live operational environments
- RPEQ Design and Consulting
- Infrastructure shutdown planning
- Electrical audits with 3D scanning and digital twin outputs
- Constructability reviews for critical electrical works
- Embedded delivery support during time-constrained programs
- Delivery of HV, LV and Communications Infrastructure





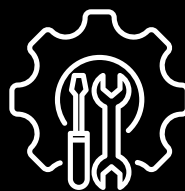
# OUR SERVICES

Targeted technical services that support safe, compliant, and constructible project outcomes.



## Audits and Digital Modelling

- Switchboard and electrical asset condition assessments
- Structured data capture and cataloguing of assets
- High-resolution 3D scanning of electrical rooms and switchboards
- Creation of a fit-for-purpose digital twin of the your electrical network
- Workplace integration support to embed the model into existing systems and operational processes



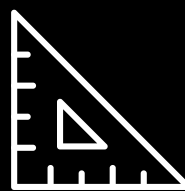
## Electrical Project Delivery

- Switchboard upgrades and replacements in live environments
- HV and LV infrastructure works scoped and delivered under RPEQ supervision
- Structured cabling and communications systems installation
- Isolation planning, commissioning, and field testing support
- Works delivered in operational or regulated environments with staged access



## RPEQ Design & Development

- RPEQ-certified electrical designs and documentation
- Practical layouts developed by trade-qualified engineers
- Designs reflect site access, staging, and real-world constraints
- Support for early-stage concepts, scope development, and pricing packs
- Outputs tailored for construction, shutdown planning, and stakeholder review
- Focused on compliance, clarity, and constructibility



## Constructability Reviews

- Independent review of electrical designs and documentation
- Identification of site access, staging, and installation risks
- Validation against AS/NZS standards and real-world constraints
- Annotated mark-ups and review packs for contractors and clients
- Helps reduce rework, delays, and delivery uncertainty



## Embedded Project Support

- On-site technical leadership during shutdowns and critical works
- Construction staging, isolation planning, and risk management
- Interface coordination across trades, contractors, and site teams
- Representation of client interests during external project impacts
- Field-proven leadership that builds trust on the ground and in meetings

# WHY EMPOWER3D

## Practical by Design

- Our team combines electrical trade backgrounds with RPEQ certification
- We design and review with constructibility in mind — not just compliance
- We speak the language of the site, not just the spec

## Built for Operational Environments

- We're experienced in working live, staged, or constrained sites
- Used to collaborating with airport, terminal, and utility stakeholders
- Know how to maintain safety, uptime, and delivery momentum under pressure

## Constructive in Every Sense

- Every output we deliver is intended to be used — not just read
- Whether it's a drawing, a scan, or a shutdown plan, it's built for execution
- We prioritise clarity, risk reduction, and real-world sequencing

## Embedded, Not Abstract

- We work alongside your teams during critical phases
- Our engineers lead shutdowns, not just observe them
- We bring technical clarity where the risk actually sits

## We Represent You

- Empower3D acts as your technical advocate during external works
- We help asset owners maintain control when third-party projects affect them
- We make sure your risks, systems, and constraints are understood by others





# HOW WE WORK

## **We Build Clarity From Complexity**

Every output is built for practical use: designs, audits, mark-ups  
Information is clear, structured, and designed for action  
We help make better technical decisions with less risk

## **We Embed, Not Observe**

We work directly with your project team and delivery contractors  
Present on-site during shutdowns, isolations, and critical works  
Provide field-ready support — not hands-off consultancy

## **We Engage Stakeholders Proactively**

Support coordination between clients, end users, and contractors  
Communicate risk, access constraints, and staging impacts early  
Represent client interests when others are delivering works

## **We Take Accountability**

We take responsibility for the work we deliver — not just advice  
Our team is RPEQ-certified and trade-qualified  
We stay involved through design, review, and delivery support

# Built for Live Environments

Empower3D specialises in designing and delivering electrical works within complex, live environments — where continuity, compliance, and safety cannot be compromised.

From passenger terminals to utility facilities, our team understands how to work within operational infrastructure where shutdowns are difficult, access is limited, and stakeholder coordination is essential. We bring practical knowledge, delivery leadership, and technical accountability to ensure upgrades and audits are completed with minimal disruption.

Our experience includes works delivered within:

- Airports — including airside, screened, and terminal areas
- Utilities infrastructure — electrical rooms and substations in service
- Hospitals and healthcare — where patient services must remain uninterrupted
- Logistics and freight depots — with 24/7 access and contractor interfaces
- Data centres — where fault risk and uptime are critical

Whether we're supporting a shutdown, planning an upgrade, or assessing risk, Empower3D brings the focus, structure, and clarity required to deliver within high-risk, operational environments.



Utilities



Hospitals



Airside and  
Terminal  
Operations



Stakeholder  
Engagement



# MEET OUR TEAM



JUSTIN PATMAN

Director | Principal Engineer

With over two decades of experience across the electrical trade, engineering design, and project delivery, Justin has worked on critical infrastructure projects within some of Australia's most complex built environments.

From main switchboard upgrades and apron lighting designs to low-voltage audits and stakeholder coordination, he brings practical insight and regulatory understanding to every project.

He is passionate about bridging the gap between technical design and real-world delivery—helping clients navigate complexity with confidence.

MIEAust | CPEng | NER, APRC, INTPE(AUS) - Electrical and Building Services Engineering  
RPEQ - Electrical  
Adv Dip. Industrial Automation  
QLD Electrical Licence



MATT COLLARD

National Manager | High Energy Systems and Critical Infrastructure

With over two decades of leadership across Australia's electrical and critical infrastructure sectors, Matt brings a depth of experience spanning transmission, distribution, heavy industry, and high-voltage systems.

From delivering complex multi-disciplinary projects in mining and power generation to steering national safety programs and cross-border commissioning efforts, he has built a reputation for strategic foresight, operational excellence, and forging strong industry partnerships.

As Managing Director of Collard Group and a trusted advisor across Asia Pacific, Matt combines hands-on project experience with high-level commercial acumen—driving innovation and lifecycle performance across the assets that power our communities.

Diploma High Performance Manager | QLD Electrical Licence | Hazardous Area Classification | HVSO | Design and Installation Certification

# Thank You

We're ready to Empower your next project with clarity,  
compliance, and confidence

# EMPOWER3D

For inquiries or next steps

✉ [info@empower3d.com.au](mailto:info@empower3d.com.au)

🌐 [www.empower3d.com.au](http://www.empower3d.com.au)

☎ +61 (0) 481 948 775

☎ +61 (0) 414 741 118