

# Curriculum Vitae



**Rowan Peck**  
**Director**



## PROFILE

Rowan has over 35 years experience as a consulting engineer, specialising in power systems and critical facilities, and covering strategic planning, peer review, power quality, design, construction, commissioning, and lifecycle performance management for over 750,000m<sup>2</sup> of mission critical technical space, over 1300 hospital beds, and more than 1,000,000m<sup>2</sup> new build, refurbishment, and extensions to critical services systems for major clients in sectors including Health, Education, Commercial, Retail, Data Centres, and Transport. Rowan is an Uptime Institute Accredited Tier Designer Professional.

Rowan's roles have included design, construction, and commissioning for process industries and for major building contractors; operating a corporate data centre during its transition to online company-wide user environment; and consulting in projects in commercial, education, entertainment, health, defence, and aviation fields.

Rowan is renowned for simple and practical solutions to engineering service system challenges, in particular for facilities which must remain operational throughout their lifecycle, or be transitioned between existing and upgraded systems with minimal risk and impact on operations. Planning and design are undertaken with risk minimisation as a primary goal; implementation is methodical and carefully mapped in advance.

Rowan's technical ability and organisational skills see him recognised by his peers as a leader in the industry. As chair of the A/NZ Standards subcommittee and an Australian international expert member to the IEC for switchboards, Rowan converts that recognition into tangible benefits for Australian / New Zealand industries.

## EXPERIENCE

### Roles

Director, Mission Critical Systems Pty Limited – 2015-

Site selection, strategic planning, project definition, concept to design completion, BIM, peer review, power quality, construction and staging, and commissioning of critical systems projects.

Electrical Director and ACT Director, NDY Canberra ACT — 2014-2015

Project leadership, work generation, and business unit manager for an office of 25-30 staff.

Electrical Director and Mission Critical Director, NDY AUS/NZ — 2008-2013

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Project lead for projects across Australia, NZ, and into SEAsia. Responsible for generating approximately \$5m annual turnover, and its technical delivery.

Electrical Design Engineer, NDY Sydney NSW — 1997-2007

Design, Construction & Commissioning phase engineer for a range of data centre, commercial, health, aviation, retail, defence, and sports/entertainment projects.

Construction & Commissioning Engineer, NDY Sydney NSW — 1994-1997

Construction & Commissioning phase engineer for a range of data centre, commercial, health, defence, and entertainment projects.

Site Manager, Concrete Constructions, Botany NSW — 1993-1994

Site services manager and subsequently site manager for the redevelopment of an oil storage and distribution facility, turnkey design and construct project.

Design Manager & Site Services Manager, Baulderstone, Sydney NSW — 1992-1993

Led the services engineering components for a major Court and Hospital D&C bid; site services manager for a TV/Radio Studio facility, and a major Pharmaceutical manufacturing and management development.

Operations Manager, Esso Australia Sydney NSW — 1987-1992

Manager of Esso's corporate data centre, responsible for facilities engineering and operations. During this period the customer base grew from approximately 200 batch to 2000 on-line users, and the facility was relocated from Sydney to Melbourne under Rowan's technical leadership and project management.

Design Engineer, Esso Australia Sale VIC — 1986-1987

Responsible for the design and delivery of projects in offshore and onshore oil and gas processing.

## Projects– Summary

For project details, refer to separate project lists (available on request or online at [www.mission-critical.com.au](http://www.mission-critical.com.au) ).

## Mission Critical

30 years experience in planning, design, implementation, commissioning, and lifecycle performance management of critical facilities. Over 650,000m<sup>2</sup> new build and extension of live facilities, and power and cooling system upgrades of over 255,000m<sup>2</sup> of live facilities, for major clients including DCI, NEXTDC, Equinix, Metronode, Global Switch, IBM, Woolworths, Optus, AAPT, Unisys, NextGen, and PacNET.

## Aviation

Over 15 years experience with Aircraft and Airport power systems, including 400Hz Ground Power, Mass Flow Air, Pre-Conditioned Air, static earthing, hazardous electrical area maintenance requirements, implementation risk

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reviews, peer reviews, fire suppression systems, trigeneration and critical power and cooling systems.

## Health

Upgrades, extensions, and new facilities for major public and private hospitals covering over 1300 beds including Royal Adelaide Hospital, Sydney Hospital, Nepean Hospital, Perth New Children's Hospital, Secure Mental Health ACT, Paediatrics ACT, and specialist clinics in Australia and New Zealand.

## Commercial / Retail

Strategic planning, Design, Construction, and Commissioning of power systems for commercial property including high and low rise, fitouts, hotels, retail, and mixed use retail/residential.

## Education

Early learning centres, cultural precincts, auditoria, teaching laboratories and facilities.

## Public / Correctional / Defence

Courts and hearing rooms, Government offices, Prisons, Logistics, Data Centres, and exhibition spaces.

## Sports / Entertainment

TV and Radio studios and support facilities, public spaces, entertainment precincts and venues, and stadium facilities.

## Transport

Road Tunnel electrical systems concept design, electrical hazardous area analysis, and peer review.

## Utilities

MV supply systems planning and design. Wastewater treatment and stormwater management.

## Expert Witness

Expertise in matters in Data Centres, power quality (harmonics), power systems integrity, electrical installation and wiring standards, and switchgear and controlgear assemblies.

## BIM

Rowan has taken a leadership role in BIM projects since 2008. Roles have focused on developing a BIM Management methodology that has been successfully executed on numerous major projects in Health and Mission Critical sectors.

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## PROFESSIONAL

### Qualifications

University of Sydney — BE (Elec, Hons 1) (1986); BSc (1984)

Northern Sydney TAFE — Electrical Wiring (1996)

Qualified Supervisor, Electrician NSW Department of Fair Trading 17138S

Uptime Institute - Accredited Tier Designer 357 (2011)

Uptime Institute - Accredited Tier Designer Professional 357 (2020)

Registered Building Practitioner Victoria PE0003550

Registered Professional Engineer of Queensland 1364

Cert IV Ambulance Health Care, Cert II Emergency Medical First Responder

### Security

Security Clearance - details on request

Australian airside Aviation Security clearance (2008-2016)

### Memberships

MIEAust, CPEng (Electrical) National Engineers Register registration 251360

IEEE Member 93808584

ASHRAE Member 8309386

Consult Australia

### Standards

Chair, EL-006-08 Subcommittee Switchgear and Controlgear Assemblies, AUS/NZ (member since 1999, Chair since 2004)

AUS/NZ expert representative to International Electrotechnical Commission SC121B Switchgear and Controlgear Assemblies committee (since 2005)

### Community

2015-current: active supporter and sponsor of Red Cross, UNHCR, Sleepy Burrows Wombat Sanctuary, and various others.

2009-2013: Founding Director and Strategic Advisor for Project Seres, Central America [www.seres.org](http://www.seres.org).

1984-2023: Perisher Ski Patrol, enhancing safety and delivering first aid to injured guests in the Perisher resorts.

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1981-1986: Australian Army Reserve, Sydney University Regiment (Infantry, LT) and 4/19 Prince of Wales Light Horse Regiment (Armoured Corps, LT). 2LT Retired.

## Conferences

A regular speaker at industry conferences and seminars on innovative design elements in Mission Critical, Sustainability, and Power systems, including:

- APAC Datacenter Dynamics AI Inference and Training facilities design: Bali, 2026
- APAC Datacenter Dynamics Evolution of Design & Build Panel: Bali, 2025
- APAC Datacenter Dynamics Liquid Cooling Panel: Bali, 2024
- Cloud & Data Centre Edge Experience: Gold Coast 2018
- Total Facilities Management: Melbourne, 2016
- DataCenterDynamics: Sydney 2007, 2008, 2011; Auckland 2010, 2012; Singapore 2013
- DataCenter Strategics Sydney 2010, 2011, 2012; Melbourne 2010, 2011; Auckland 2012; Singapore 2013
- Facilities Management Association of NZ NABERSNZ Lessons from Australian experiences, Auckland / Wellington / Christchurch 2012
- Disaster Recovery and Business Continuity for Macquarie Bank, Sydney 2009
- AFCOM Canberra 2014
- BICSI South Pacific Sydney 2009, 2012; Canberra 2014
- Power Systems World Conference California 2003, Leading power factor in IT loads and their impact on UPS (inaugural coverage of this topic).
- IEAust Newcastle Division Power System Dependability, 2001

## Management & Personal Development

- 2024: Hazardous Area Classification AS/NZS 60079
- 2023: Data Center Dynamics DCD Power Professional Course
- 2020: AS1 Advanced Mechanical and Tiers & AS3 Advanced Electrical and Tiers, Uptime Institute
- 2016: Down to Earth, Engineers Australia (Power Systems Earthing regional 3 day conference / seminar)
- 2015: Risk, Law, and the Construction Practitioner, Engineers Australia Canberra Division
- 2013: Senior Leadership Development Program, NDY Management
- 2011: Accredited Tier Designer, Uptime Institute
- 2001: Marketing & Presentation Skills, First Impressions Pty Ltd

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- 2001: Conflict Resolution Skills, Australian Institute of Management
- 2000: Risk Management, Risk & Reliability Associates
- 1998: ACEA Consulting Practice Management Course, Melbourne Business School
- 1996: Project Management for Engineers, IIR Conferences
- 1993: Communication Skills Sydney University
- 1990: Negotiating Skills TEAG Pty. Ltd.
- 1989: Business Profitability and Project Economics, Esso Australia
- 1989: Advanced Supervisor Development Program, Esso Australia
- 1988: Supervisor Development Program, Esso Australia
- 1988: Occupational Health and Safety Committee training, NSCA