



11-Dec-18

## Curriculum Vitae

### Rowan Peck, Director

#### Profile

Rowan has 30 years experience as a consulting electrical 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 480,000m<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 power systems for major clients in sectors including Health, Education, Commercial, Retail, Data Centres, and Transport. Rowan is an Uptime Institute Accredited Tier Designer.

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 power system challenges, in particular for facilities which must remain operational throughout their lifecycle. 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-

Strategic planning, project definition, concept design, peer review, power quality, construction and staging,

---

Mission Critical Systems Pty Limited, ABN 46 160 263 758 +61 412 041957

rowan@mission-critical.com.au

Po Box 3259 Manuka ACT 2603



and commissioning of critical power 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

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 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 to 2000, 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 attachment.

## Mission Critical

25 years experience in planning, design, implementation, commissioning, and lifecycle performance management of critical facilities. Over 300,000m<sup>2</sup> new build and extension of live facilities, and power system



upgrades of over 185,000m<sup>2</sup> of live facilities, for major clients including IBM, Global Switch, Woolworths, Optus, AAPT, Unisys, Metronode, 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 reviews, peer reviews, fire suppression systems, trigeneration and critical power 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, 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 and peer review.

## **Process**

Offshore and onshore oil and gas processing, storage, and distribution.

## **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, 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.

## **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)

Registered Building Practitioner Victoria EE 45072

Registered Professional Engineer of Queensland 21364

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



## Security

AGSVA NV1 Security Clearance (since 2014)

Australian airside Aviation Security clearance (2008-2016)

## Memberships

MIEAust, CPEng (Electrical) registration 251360

IEEE Member 93808584

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 Communities@Work ACT, Red Cross, UNHCR, Hartley Lifecare, ANU Sol Invictus World Solar Challenge 2017

2009~2013: Founding Director and Strategic Advisor for Project Seres, Central America  
[www.projectseres.org](http://www.projectseres.org). I maintain an ongoing support role to the executive team.

1984~current: Perisher Volunteer Ski Patrol, enhancing safety and delivering first aid to injured guests in the Perisher resorts.

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:

- 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

- 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
- 2001: Marketing & Presentation Skills, First Impressions Pty Ltd
- 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
- 1986: Time Management, Time Manager Inc.