



## Adrian Wotherspoon

### EARTHING AND BONDING ENGINEER

I am electrical engineer with experience in renewables, transmission and distribution, and traction rail projects. Through my experience in managing small scale transmission projects, to working on some of ANZ's largest infrastructure projects, I have developed strong project engineering skills which have further helped me to deliver value and effective solutions to our clients.

### EDUCATION/QUALIFICATIONS

Bachelor of Electrical Engineering (Hons), University of Queensland  
January 2013 - July 2018

### MEMBERSHIPS AND AFFILIATIONS

- Member of Engineers Australia

### Areas of expertise and technical skills

- *High voltage electrical systems, project engineering, power system modelling, data analytics*
- *PSSE, Python, Excel VBA, C, PCB development*

### Previous Experience

#### Earthing and Bonding Engineer – AC & DC Rail Systems

**Projects:** Cross River Rail (Brisbane), City Rail Link (Auckland), Level Crossing Removal (Melbourne)

**Title:** Earthing & Bonding Engineer

**Start/End Dates:** August 2020 – May 2022

**Scope/Description:** Due to the high voltage risks associated with traction power systems, earthing and bonding is a safety critical aspect across all aspects of rail projects, involving the design of safety systems to mitigate electrocution risks.

#### Responsibility:

- Understanding large, complex, multi-discipline project requirements while interfacing the design to meet regulatory and Australian Standards electrical safety requirements.
- Lead earthing and bonding designs for above and underground rail stations, underground tunnel rail systems, from preliminary design to issued-for-construction.
- Coordinating and development of electrical safety elements with various non-electrical disciplines and teams as part of civil, architectural and building services design.

#### Project Engineer – Substations and Transmission Lines

**Clients:** AusNet Services, TasNetworks

**Title:** Project Engineer

**Start/End Dates:** December 2019 – October 2021

**Scope/Description:** Provision of design work related to the upgrades and maintenance of transmission systems of Transmission Network Providers across Australia.

#### Responsibility:

- Managed and delivered substation and transmission line scoping/design projects on-time and within budget.

- Proactive interfacing and communication with internal and external stakeholders to establish project requirements and resolve conflicts.
- Employ project management processes in accordance with company's quality assurance and quality control requirements.

**Power Systems Analyst - Solar Farm Feasibility and Connection Studies**

**Clients:** Downer, Lendlease, Aurizon, QUU

**Title:** Power System Analyst

**Start/End Dates:** May 2018 – November 2019

**Scope/Description:** Perform feasibility studies and develop Generator Performance Standards (GPS) as part of grid connection application process for various solar farms.

**Responsibilities:**

- Develop multiple criteria analysis and cost-benefit analysis tools to determine economic viability of renewables projects.
- Advise clients on the impact of solar farm connections and facilitate the successful connection of various solar farms through the AEMO connection process.
- Conduct modelling and simulations on the Australian electricity network to develop forecasts on the electricity market prices to inform investment decisions.

**Referees**

Contact details provided upon request.

**Andrew Jacobs**

Director of Projects – Power Solutions

**Daniel Yuen**

Senior Earthing Engineer – Power