

Position title:	Systems Engineer (OT)
Department:	Operations
Team:	Technology
Reports to:	Head of Technology
Direct reports:	N/A
Location:	Melbourne
Document review date:	Oct 2024

Role overview

The purpose of this role is to support, maintain, and build the Operational Technology (OT) systems in the business. You'll be responsible for the operations and maintenance of Operational Technology systems at Tilt Renewables.

The operational success of Tilt Renewables requires robust data collection and provision, and effective operational remote control of the asset base. This includes compliance with real time electricity market instructions, collection of production data for billing and general supervision and control of assets. To achieve this the systems are required to be reliable, with duplicate communications circuits and appropriate fail-safe mechanisms.

Key Accountabilities

The key accountabilities may include (but are not limited to):

Technology Support and Maintenance

- Develop a strong understanding of the technology stack in the business
- Support network maintenance and security, such as routers, firewalls, SD-WAN appliances.
- Deliver support for operational technology services, such as SCADA, Market systems and databases.
- Familiarise self with the energy sector and its unique technology requirements

SCADA/OT and Communications Systems

- Support the development and implementation of appropriate communications to allow appropriate access to assets for control and supervision purposes.
- Support and implementation of appropriate SCADA systems to allow for control and supervision purposes.
- Operational compliance monitoring (including response to dispatch instructions) is in place, with non-compliance alarmed and performance reported on monthly.
- Market trading, bidding and forecasting systems are maintained and available based on requirements from Market Operations team.
- Assist Grid and Asset Management teams to ensure systems are compliant with GPS and NER.
- Ensure reliable data is available to the business for general performance information, contractor management and asset review.
- Ensure communications networks are in place, including back-ups to achieve agreed risk profile for asset control.

- Monitor communications network monitoring systems and respond to events
- Assist to ensure systems are in place to inform staff of issues i.e. alarming, text messages, emails, etc.
- Ensure all systems and documented and all drawings are up to date.

Asset Project Support

- Assist Project Development teams on design, document review, schedule planning.
- Assist in commissioning and testing of Tilt SCADA and Communication systems.
- Assist Project Delivery teams to deliver of OEM SCADA and Communication systems based on project requirements.
- Assist during OEM SCADA and Communication systems commissioning.

Cyber Security

- Work closely with Cyber Security team to ensure Cyber Security maturity is maintained to the regulated level

Continuous Improvement

- Build new capabilities and identify areas for improvement in all technology systems.
- Assist with the development and operations of a multi-technology communications and control platform

Key Relationships

This role will work closely with:

Tilt Renewables stakeholders:

- Asset and Market Operations Teams
- Project Delivery Team
- Development Team

External stakeholders:

- Asset technical contacts (Vestas, GE, Suzlon, AusNet etc.)
- Australian Energy Market Operator (AEMO)
- Transmission Network Service Providers (TNSP's)

Skills and Experience

- Experience in deployment and management of IaaS and SaaS delivered solutions.
- Experience Microsoft Azure and cloud infrastructure highly desirable.
- Proficient networking knowledge – SDWAN, DNS, WAN, VPN, IPsec, Routing
- Practical knowledge of implementing security and firewall technologies
- Detailed understanding of communications and control systems desirable.
- Understanding of modern infrastructure architectures – containerised platforms (docker, ACI), zero-trust security, cloud-first design
- Understanding of SCADA systems and associated functionality highly desirable.

- Understanding of NER compliance requirements

Qualifications

- Minimum graduate degree in relevant discipline.
- Full Drivers Licence (Site visits required).
- White card

Key Competencies and Capabilities

Capabilities	Competencies
<ul style="list-style-type: none">• Technical proficiency with Microsoft services, and general computing systems, including databases and communications technology.• Operational focus and ability to consider overall business effects of system performance• Drive for continuous improvement• Sufficient industry/market knowledge, preferably including energy market compliance and reporting requirements.	<ul style="list-style-type: none">• Pragmatic and outcome focused• Operations oriented mindset• Driven to succeed• Energy and enthusiasm• Creative and innovative• Collaborative and team focused

About Tilt Renewables

Tilt Renewables aims to be the leading developer, owner and manager of renewable energy generation assets in Australia. With 1.7 GW of Operational Assets and a pipeline of over 5GW we are well positioned to achieve this.

We are proudly Australian with strong brand recognition known for developing and operating, high quality assets in Australia with a long-term owner's perspective. With a significant pipeline of development opportunities, we have an appetite for growth.

Our approach is to adopt a pragmatic view of the development, asset operation and energy market functions focussed on optimising customer, investor, employee and community outcomes. This requires agile and effective decision making and outstanding execution of opportunities.

Credibility in the eyes of our investment stakeholders as well as strong relationships with our customers, key suppliers, contractors and the communities we operate in are critical to Tilt Renewables' success. Tilt Renewables has corporate offices in Melbourne and Sydney and a rapidly growing capable team of approximately 100 employees who are able to apply themselves to any issue or opportunity, regardless of functional structure.

We are committed to a customer centric renewable energy solution, building on our enviable track-record, experience, and reputation.

Our Vision

Our vision ***to drive the transition to renewables through everything we do*** focuses on us helping create the world we want to be part of and to look for those opportunities in everything we do.

Our Values

Developed by our team to reflect what matters most to us, our values are simple, unequivocal, and focused on how we generate a difference – for our business, for our people, for our investors and for the communities we work with.

We are People Powered | We Get It Done | We Lead

Our Investors

Tilt Renewables has three key investors:

- Future Fund (40%),
- QIC (40%); and
- AGL (20%)