

Position title:	Wind Analyst / Senior Wind Analyst
Department:	Development
Team:	Engineering
Reports to:	Head of Engineering
Direct reports:	Nil
Location:	Melbourne (preferred) or Sydney
Document review date:	December 2023

Role overview

Reporting to the Head of Engineering and working closely with our Development team, you will play a pivotal role in the engineering assessment, analysis, and optimisation of renewable energy projects.

Primarily focused on our growing and fast-maturing development portfolio, spanning early- to late-stage projects, you will utilise your extensive technical knowledge and leadership skills to ensure the successful delivery of these projects from concept to execution.

You will also work closely with the broader project, asset management and corporate development teams to deliver and optimise renewables projects through construction and operations, providing expert advice and analysis. You may also support ad-hoc projects such as assessment of and due diligence for potential asset acquisitions.

Working collaboratively with cross-functional teams, stakeholders, and partners to drive innovation, quality, and excellence in our projects, this role is key to the success of our projects and associated decisions going forward.

Key Accountabilities

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

- **Renewables engineering:** Provide expert engineering advice and analysis for renewable energy projects through life-cycle stages including development, design, delivery, and operations, with a strong focus on onshore wind turbines and the integration of wind turbine technologies into the broader electrical, grid and SCADA infrastructure.
- **Resource assessment:** Conduct and support energy yield assessments for renewable energy projects, including design of resource measurement campaigns, data quality control, energy yield analysis and layout design using best practice tools and technique.
- **Energy modelling:** Utilise and develop software, models and tools to simulate and model energy generation, considering factors such as site conditions, weather data, and equipment specifications. Develop and assess wind sector management strategies to assist in managing wake, loads, acoustic or other requirements.
- **Technology assessment:** Evaluate and optimise the performance of various renewable energy technologies and their integration into project designs and asset management plans, with a strong focus on onshore wind technology.
- **Project development:** Collaborate with project teams to make informed decisions in relation to project design and engineering approach. Provide engineering and energy yield assessments in

support of greenfield site identification, feasibility studies, de-risking, and financial analysis for project progression and investment decisions. Provide expert advice in relation to assessment and adherence with environmental constraints, site layout design, and noise and shadow flicker impacts. Assess acoustic performance, and assist in the development of pre and post construction noise assessments and noise management plans.

- **Procurement support:** Work with project development and commercial teams, supporting technical aspects involved in wind turbine procurement. This includes supporting the development of Principal's Requirements to be included in project agreements, and finalising technical schedules within project agreements such as availability guarantees, power curve guarantees, acoustic guarantees, design life requirements, and wind sector management.
- **Delivery support:** Support power curve verification and performance guarantee test planning, implementation, and analysis. Technical support on construction contracts including milestone claims, performance warranties, assessments and serial defect claims.
- **Asset management and optimisation:** Design performance assessment strategies and tools and analyse and interpret simulation results to identify potential optimisation opportunities and risks related to energy yield, technology, and project performance.
- **Consultant and contractor coordination:** Engage, instruct and work closely with specialist external consultants and technology providers, gathering necessary information and collaborating to deliver engineering, resource, technology, design and layout assessments.
- **Technical due diligence:** Support technical due diligence activities, working with and instructing third party advisors where required for potential financing and acquisition opportunities.
- **Continuous improvement and innovation:** Stay updated with industry trends, advancements in renewable technologies, and regulatory changes to drive continuous improvement and innovation, and to ensure projects adhere to best practices and compliance standards.
- **Team mentoring and development:** Mentor and guide Engineering and cross-function team members, sharing technical expertise and fostering a culture of continuous learning and professional growth. Provide advice and strategic direction to renewables engineering activities and to develop peers and junior team members.
- **Leadership:** Demonstrate initiative, collaboration, and strong communication skills in all activities. Support innovation and provide input to team and company strategy to contribute to company culture, goals, and long-term objectives.
- **Financial management:** Provide inputs to budgeting, cost control and forecasting processes. Provide and assure energy assessment and project engineering inputs into financial models.
- **Financial and risk management:** Provide inputs to budgeting, cost control and forecasting processes. Support project business cases by reviewing and challenging input assumptions where appropriate. Support robust risk management with expert advice on technical, practical and contractual methods of managing key risks related to wind turbine operation and generation.
- **Health, safety and environment:** Contribute to a culture of caring and safety within the engineering team and the company broadly. Ensure all company HSE policies are adhered to in own work and are included in project tendering and contract negotiation processes with external parties.

Key Relationships

This role will work closely with:

Tilt Renewables stakeholders:

- Engineering team
- Project development team
- Planning, environment and land acquisition team
- Finance and corporate strategy teams, in relation to acquisitions and financial modelling

External stakeholders:

- Technical consultants and advisers
- Wind turbine suppliers (OEMs)

Skills and Experience

- 2+ years' (Wind Analyst) or +6 years' (Senior Wind Analyst) experience in providing expert engineering services in the power generation and renewables space.
- Experience in technology and energy yield assessments particularly for wind projects.
- Capability to innovate, for example through automation of repetitive tasks
- Significant practical experience with operational wind installations including physical asset inspections/reviews and operational assessments.
- Experience leading engineering workstreams for renewables projects.
- Mentoring of junior staff and knowledge sharing with colleagues.
- Ability to make decisions assessing broad inputs and constraints including commercial and technical.
- Ability to assess risks and opportunities and formulate action plans.
- Strong verbal communication and presentation skills.
- Sound knowledge and understanding of relevant IEC and Australian standards and regulations.

Qualifications

- Minimum **bachelor's degree** in engineering, science or other relevant discipline.
- Post graduate qualification in engineering or related technical discipline is desirable.
- Full Drivers Licence.

Key Competencies and Capabilities

Capabilities	Competencies
<ul style="list-style-type: none">• Regular domestic travel to Tilt asset / site locations• Occasional work outdoors in potentially harsh conditions	<ul style="list-style-type: none">• Analytical with strong attention to detail• Collaborative work style; open, honest and effective team player



<ul style="list-style-type: none">• Driving long distances required for remote site visits	<ul style="list-style-type: none">• Takes initiative; self-starter and committed to achieving challenging goals• Effective verbal and written communication• Holds self and others accountable against commitments• Builds relationships and trust• Problem-solving attitude
--	--

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%)