

<b>Position Title</b>	Senior Associate / Manager – Technical Renewables
<b>Reporting to</b>	
<b>Direct Reports</b>	

<b>Position Purpose</b>
The selected employee shall lead the technical aspects of the project development and support the SPV team during the project execution and operation. The projects will mainly renewable power: solar, wind and battery energy storage systems and are being developed on Southern Africa

<b>Responsibilities</b>
<p><b>Business Origination</b></p> <p>Support the business development team to facilitate the initial evaluation of the opportunities:</p> <ul style="list-style-type: none"> <li>• Conduct site screening exercises using satellite sources (wind and solar resource, topographical conditions, etc.) as well as site visits.</li> <li>• Preliminary technical assessments, using in-house Excel tools which should be further developed and improved with time.</li> <li>• Identify the key risks and opportunities of the project.</li> <li>• Preparing initial presentations and proposals of the opportunity.</li> </ul> <p><b>Project Development</b></p> <p>Being the bulk of the responsibilities, this scope includes the development activities until Financing Close:</p> <ul style="list-style-type: none"> <li>• Site screening and preliminary evaluation.</li> <li>• Ability to evaluate grid conditions and to develop a technical feasible solution for the project.</li> <li>• Understanding of single line diagrams (SLDs) of HV infrastructure in order to identify the existing grid infrastructure and the different alternatives for connecting the grid to the project.</li> <li>• RFP development and contracting all the site and grid-based studies.</li> <li>• Perform energy yield analyses (EYAs) and review EYAs by other parties.</li> <li>• Review the site and grid study reports from consultants and provide feedback.</li> <li>• Evaluate and optimise technology and layout options for future projects.</li> <li>• Highlight grid connection and off-taker requirements for future projects.</li> </ul>

- Lead the write-up of the Employer's Requirements for the EPC to align with – with a strong focus on cost-effectiveness and constructability.
- Write-up of minimum specifications for key equipment (Inverter, Module, Tracker / substructure, BESS, PPC, SCADA, substation equipment)
- Liaise and coordinate with Lenders' Technical Advisor (LTA) and support in all technical matters on behalf of the organisation and, in some cases, the EPC.
- Review and approve manufacturer/ subcontractor/ vendor techno-commercial offer.
- Support the Solar Technical Manager and other parties in the technical team in achieving AMEA's annual and long term strategic renewable energy business plan.
- Support with project agreements like PPA, EPC and O&M and their typical technical schedules
- Specify the Owner's Engineer (OE) role to help with the development of their RFPs and Contracts – while assuming more responsibility to reduce the organisation's reliance on an OE for technical support.
- Perform technical due diligence assessments on potential projects.

### Engineering Phase

- Evaluate and optimize solar and storage technology and associated balance of system components most suitable for the project.
- Evaluate and optimize the plant layout for better EYA and plant maintainability.
- Ensure that the plant meets all grid code requirements for the region or complies with any best industry practice for grid support.
- Coordinate with the owner's engineer the approval of the engineering deliverables of the EPC Contractor.
- In close coordination with the owner's engineer, liaise with the public authorities (grid operator, environmental authorities, local authorities, etc.) to obtain all the necessary permits and approvals for the project.
- Support the owner's engineer to attend all the requests of the lender's technical advisor.
- Coordinate with the project team any topic raised by the EPC Contractor (claims, variations, etc.).
- Detail design review support

### Procurement Phase

- Support the owner's engineer the approval of the purchase orders technical specifications, ensuring that it complies with all the requirements defined under the EPC Contract.
- Review the offers from key component supplier and preparing comparative statement.
- Review with the legal team the technical guarantees provided by the equipment suppliers proposed by the EPC Contractor, to ensure it is aligned with the requirements of the EPC Contract.
- Assist the project team with any technical issue related to the logistics and import of products.

## Construction Phase

- Coordinate with execution team during structuring, execution and commissioning stages of the projects.
- Support the project team with technical queries during the construction phase.
- In coordination with the project team, support the EPC Contractor and equipment suppliers to ensure the correct installation of the key equipment.
- Monitor the commissioning and performance tests, auditing the results provided by the EPC Contractor.
- Provide support to the project team in their discussions with the lender technical advisor during the provisional acceptance of the project.

## Person Specification

<p><b>Experience Requirements</b></p>	<ul style="list-style-type: none"> <li>• 5 to 10 years relevant experience in renewable power projects (solar or wind), working on technical project development in an IPP, or as a project engineer / project manager in an EPC, or as a consultant in an LTA or Owner's Engineer.</li> </ul>
<p><b>Education Requirements</b></p>	<ul style="list-style-type: none"> <li>• Bachelor Degree in Electrical Engineering (or Mechatronics).</li> <li>• Masters in renewable energy will be an advantage</li> </ul>
<p><b>Required Skills</b></p>	<ul style="list-style-type: none"> <li>• Solar PV resource and yield assessment(PVsyst, SolarGIS) – Expert.</li> <li>• BESS energy yield assessment (Homer and/or Excel and/or Matlab and/or other calculation tools) – Intermediate to Expert.</li> <li>• Solar PV conceptual design (Layouts, SLDs, SCADA) – Expert.</li> <li>• Understanding of grid codes, grid connection requirements and plant control philosophy – Expert.</li> <li>• Grid study review – Expert.</li> <li>• Excel (including macro programming) – Expert.</li> <li>• Solar PV and BESS project technical development best practices and standards – Expert.</li> <li>• Detail design review – Expert.</li> <li>• Battery storage technology –Intermediate to Expert.</li> <li>• Other programming / calculation tools – Intermediate.</li> <li>• AutoCAD or CAD design – Intermediate.</li> <li>• Technical software for GIS (Google Earth or QGIS) – Intermediate.</li> <li>• Project management software (MS Project or Primavera) – Basic.</li> <li>• CFD software (for evaluating trackers) – Basic.</li> <li>• French or Portuguese speaking is a plus.</li> </ul>



## Job Description

--	--

<b>Reviewed by</b>	
<b>Job Title</b>	
<b>Date</b>	