

BUSINESS PROFILE



Executive Summary

ANEED Consult Pty Ltd is a Professional Electrical Engineering and Design service provider serving the industry with innovative latest technology solutions in everyday electrical engineering. Our aim is to provide clients with the products and support required to sustain their operational facilities to optimum operation and advance new projects to viable execution.

Since 2012

Australian Network of Electrical Engineering & Design Consultants

ANEED Consult brings together a network of experienced engineers and designers in a cost effective way to help companies of all sizes to be successful in their growth strategy.

100% Australian

Fields of Experience

- ▶ Electrical Engineering Studies and Investigations backed by our knowledge of Oil & Gas, Mining and Utility operations in brown and green field industrial environment.
- ▶ Taking Lead Electrical Engineer roles in small commercial / residential developments or large multi-disciplinary EPCM projects involving electrical services design, power generation, distribution, industrial plant and substations.
- ▶ Provision of Detail Electrical Engineering and Design for industrial power plants, substations, process plants, hazardous areas, building services and non-process infrastructure.
- ▶ Creation and/or review of technical & procedural documents based on ISO & AS/NZS standards. Acquainted with Quality and HSE systems.
- ▶ Project management, project engineering and proposal engineering.
- ▶ Provide and set-up "End-of-Job Documentation Management" tools to equipment fabricators and installers.
- ▶ Factory acceptance testing and construction engineering support.
- ▶ Electrical checkout, quality control, testing and commissioning.

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Categories of information relevant to Specialised Fields	
<p>Consulting Electrical Engineering:</p> <ul style="list-style-type: none"> • Short investigation assignments • Engineers Opinion • Owner engineer representation • Regulatory & claim verification • Technical documentation review • Services & Power Supply Authority liaison • Procedure development • Work breakdown structuring • Risk assessment & input to workshop studies. • Quality & HSE systems 	<p>Study & Conceptual Engineering:</p> <ul style="list-style-type: none"> • Feasibility studies • Budget estimates • Decision Analysis • Power System Analysis • Plant investigations • Engineering proposals • Insurance claim verifications • Probable Cause of Failure analysis • Option studies for Outage work implementations
<p>Tendering and quotation:</p> <ul style="list-style-type: none"> • Estimate engineering and design man-hours for reimbursable and lump sum projects • Tendering on lump sum turnkey projects • Short form quotations for small plant modifications and designs • Tendering on multi-discipline projects in alliance with other engineering companies • Public and Private sector proposals / tender response 	<p>Project Management:</p> <ul style="list-style-type: none"> • Budget control • Scheduling and Planning • Resource planning • Progress reporting and meetings • Quality control management • Engineering management & Project management of multiple contracts • Factory Acceptance Testing, Site Acceptance Testing and Commissioning management
<p>Definition / Basic Engineering and design:</p> <ul style="list-style-type: none"> • Load flow and voltage drop analysis • Short circuit studies • Preliminary components and cable sizing • Planning of distribution networks • Preliminary switchgear and substation layouts • Compile of load lists and equipment lists • Compile technical scope of work for attachment to RFQ's to vendors • Compile specification and contract technical documents • Design single line diagrams and block diagrams • Site investigations and design proposals 	<p>Specifications and RFQ's for electrical equipment such as:</p> <ul style="list-style-type: none"> • High voltage switchgear - 132kV, 33kV, 11kV, 6.6kV • Low voltage switchgear and MCC's – 690V, 525V, 415V • Low voltage distribution boards - 415V, 231V • Variable Speed drives & Soft Starters • UPS systems • Battery banks and Battery chargers • Transformers 10kVA to 32MVA • 11kV and 6.6kV motors • Low Voltage motors • Alarm annunciators • Fast transfer systems • Emergency power backup • Cathodic protection • Marshalling cabinets • Substation automation Systems • Heat Tracing Systems • Electrical power and control cables
<p>Detail Engineering and Design:</p> <ul style="list-style-type: none"> • Engineering calculations for equipment, cabling and component sizing. • Detail power system analysis • Protection grading and relay setting calculations. • Compile bill of materials and contract documentation for electrical construction contractors • Detail design of circuits and connections for HV, MV and LV switchgear • Detail cable routing underground and aboveground • Detail earthing layouts and calculations • Lightning protection calculation and designs • Substation layouts and civil interfacing • Building power and earthing requirements • Plant Lighting and small power detail layouts and design 	<p>Detail design and setup of modern protection devices:</p> <ul style="list-style-type: none"> • ABB - REF, REM and INSUM and SPA-series • Siemens - Siprotech & Simocode and 7-Series • MULTILIN wide range • GEC/Alstom Midos, Micom and also older versions • Allen Bradley • Cable/Bus/Transformer differential schemes
<p>Project Completion:</p> <ul style="list-style-type: none"> • Tender evaluation and technical recommendation • Fabrication support & Factory Testing • Create and manage Quality system checkout documentation 	<ul style="list-style-type: none"> • Site construction support, testing and commissioning and project handover. • Final Documentation and as-built design.