

Capability Statement



At DEL our engineers are practiced at providing power system solutions that will fit your company requirements.

With 50 years of combined protection experience ranging from simple single transformer kiosk installations to large transmission substations we can provide customised solutions for your company needs.

Protection

We have customised solutions for: -

- Transmission transformers up to 500kV
- Zone substation transformers up to 132kV
- Transmission feeders up to 500kV
- Busbar (high impedance and low impedance)
- Reactors: line and shunt up to 500kV
- Capacitor banks
- Distribution feeders (22kV and 11kV)
- Low voltage feeders (Less than 1kV)
- Distribution substation protection

We can also provide protection for industrial and commercial plant and our engineers have particular expertise in protecting: -

- Motors
- Generators
- Solar system installations
- DC battery systems
- UPS systems





SCADA

We are practiced SCADA engineers who have delivered SCADA systems and substation automation to a large number of utility substations. We have also experience in implementing SCADA and control systems from DNP3 based systems to IEC61850 systems.

We can also provide metering solutions such as revenue metering or statistical metering that will meet your installations needs.

Our engineers are also experienced in substation automation and can provide switching algorithms that will allow implementation of N-1 or N-2 operation of a substations transformers.

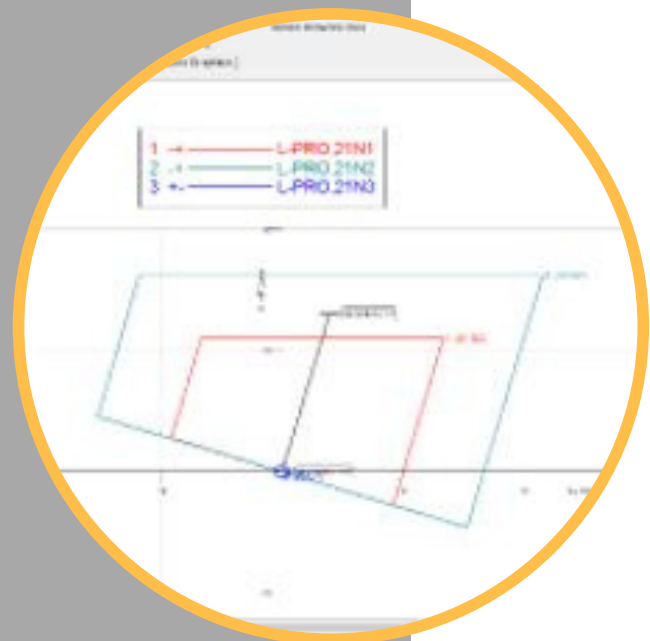
System Analysis & Studies

We pride ourselves on our ability to perform the required power system studies to find the most effective solutions for our clients.

Our engineers are versed in various software packages that allow us to deliver the following analysis: -

- Short circuit/Relay coordination
- Load flow
- Transient
- Protection clearing time
- Voltage regulation
- Fault investigations

Our engineers are skilled in the use of various engineering tools to ensure that all our clients requirements are catered for. We have knowledge of CAPE/ASPEN, PSSE, SKM, Powertools, ETAP and EMTP. So if a client requires a simple load flow analysis, protection study or fault analysis our engineers are capable of providing the required support to meet our clients needs



Testing & Commissioning

We specialise in handing over turnkey projects that mean our clients do not need to concern themselves with commissioning plant.

We provide testing and commissioning of electrical plant and can assist a constructor to achieve their goals, whilst utilising our commissioning skills.

We can provide commissioning of: -

- Protection systems
- SCADA
- Generator systems
- UPS systems
- Switchboards
- ITP and FAT testing
- Instrument transformers (CT's)



Specification Writing

We can provide our clients with support during the front end of projects where concepts and specifications are required for the establishment of budgets.

Our specification writing capabilities are of the highest standard and our engineers are experienced in producing specifications for the following plant and equipment: -

- Transformers
- Switchgear both HV and LV
- Current transformers (CT's)
- Voltage transformers (VT's)
- Secondary systems
- UPS systems
- Embedded networks

We also specialise in providing our clients with tender packaging and transmission connection agreement requirements. We are also skilled in developing assessment requirements for projects, both utility and industrial.



Building Services

Our capabilities extend beyond the gates of substations and industrial facilities. We are well versed in providing electrical solutions to the building industry. Our engineers have been involved in seminal building and infrastructure projects in Sydney over the last 20 years. We have extensive experience on LV systems, large scale building developments and data centres.

We are able to provide: -

- LV cable design
- Switchgear design
- Volt drop calculation
- Lighting design



Management

We can provide support to our clients with the management of their projects. We can provide services such as estimating during concept design phase followed by fine tuning our clients budget with our design management capabilities as their design evolves.

Once a project has been tendered, we are also able to provide tender evaluations and responses followed by site management. We can provide technical evaluation/responses with compliance requirements. All of this done through our established quality systems.



CONTACT US

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