

# Live substation work on transmission networks

Powerlink and RTE international deliver innovative solutions for customers



## Overview

As leading providers of high voltage transmission network services, Powerlink and RTE international know their customers need value, certainty and innovative solutions. When you engage Powerlink and/or RTE international, you gain access to the industry's best technical experts, who can deliver a solution that meets your business needs.

With more than 80 years' combined experience in assessing, planning and implementing live substation techniques, Powerlink and RTE international have earned their reputation as industry leaders in the safe delivery of live substation services.

As the first Australian, transmission utility to adopt live substation works (LSW), Powerlink has continued to develop highly skilled teams capable of efficiently and safely maximising network efficiencies. RTE international are world leaders in live substation work and continue to provide methodologies and licensing to Powerlink for this innovative technology.

By adopting this specialised live working method, we ensure the safe, cost effective and reliable performance of the transmission network, and delivery of efficiencies with removing the need for outages.

This depth of experience is now available to network service providers seeking live substation expertise and advice.

## Leading specialists in transmission live substation work

Live substation work is a solution for the engineering and maintenance issues of today, and into the future. Knowledge, know-how and professional skills are built and developed through solid basic training, refresher courses and periodic audits.

Live substation work can be integrated into any electricity utility, encompassing live working tools and specific workflows for each substation. For live substation work to be carried out in your utility, a technical study along with specific job preparations must be undertaken with consideration to the associated methodology based on risk analysis and safety of operators.

By engaging Powerlink and/or RTE international to aid in the technical studies and development of your live substation work capability, you will have access to highly specialised teams, with the right skills and equipment to meet your individual business needs.

## Benefits of live substation work

The advantages of using live substation work methods for network projects and maintenance include:

### Improved network reliability

Critical circuits remain in service during live substation work, resulting in improved reliability and availability.

### Improved network security

Protection systems can remain in service during live substation work, and operate as normal.

### Labour efficiencies

Live substation work can be carried out during standard work hours, reducing the requirement to engage staff for out of hours work, and all year round (does not depend on power outages).

### Reduced cost

Avoids the cost of unavailability of strategic facilities, decreases cut time and leads to improvements on maintenance programs.

### Completion on schedule

The certainty of work being completed on schedule is considerably improved.





## Our services

The following engineering consultancy services for live substation work can be delivered by the Powerlink and/or RTE international teams:

### Live working for LSW

- Feasibility studies / Opportunity studies
- LSW training and refreshers
- Drafting and updating of the Documentary Corpus (LSW conditions, System Operating Mode, Technical Sheets)
- Audit and assessment
- Carrying out projects/work sites with the Powerlink and/or RTE international teams
- Supply and adaptation of specific LSW equipment/machines to each network

### Engineering services LSW

- Carrying out studies for the construction or rehabilitation of transmission network facilities (substation)
- Drafting of specifications for consultations/tenders
- Support in the performance of engineering projects
- Owner's engineering work

### Operation and maintenance of networks for LSW

- Training
- Audit on steering, performance and management of operation and maintenance
- Help third parties in setting up an asset management policy for LSW

## Safety is essential

Safety is a priority in all live substation work processes and techniques. Our live substation work methods have been improved and developed since their successful introductions in RTE in 1965 and at Powerlink since 2001.

To comply with safety requirements, specialist methods and tools are used, with customised live work procedures. The methodology is based on a risk analysis and work preparation, which includes fully scoping each individual live substation job in advance and completing a comprehensive site evaluation.

Highly-skilled team leaders will prepare a sequenced work procedure for the job, which is also reviewed and approved by a qualified live work engineer.

All potential risk factors and hazards are re-checked on the day of the job, and identified control measures are applied as required.

## Contact us

For specialist support and finding the right solution for your transmission live substation work needs, contact Powerlink and/or RTE international.



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