

## SUPPLIERS

### PRODUCTS/SERVICES

	ABB Australia 61 3 9735 7302	Ampcontrol 61 2 4961 9000	AREVA T&D 61 2 9739 3000	Arthur D. Riley 64 4 472 7614	AVO New Zealand 64 3 348 5999	Cooper Electrical 61 2 8787 2796	CrispTech 1300 727 477	CSE-Uniserve 61 2 8853 4200	Dynamic Ratings 61 3 9574 7722	EA Technology Aust. 61 7 3161 4593	EnerTel 61 2 9615 9117	Hill Michael 61 7 3236 4244	Lord Power Equipment 1800 128 000	Maunsell AECOM 61 8 7100 6543	Megavar 1 300 730 499	OMICRON electronics 61 3 9450 1507	Power Parameters 61 3 9450 1500	Schneider Electric 1300 369 233	SEL 61 3 9464 4711	Serck Controls 61 2 4941 1211	Siemens 61 3 9721 2000	Thew & McCann 61 7 3826 6000
<b>Asset &amp; Works Management Systems</b>	✓				✓					✓			✓									✓
Condition Monitoring/Assessment	✓				✓					✓			✓									✓
Maintenance Management	✓																					
Network Design	✓				✓								✓	✓								
Reliability Assessment	✓																					
Work Planning & Scheduling	✓																					
<b>Building Management Systems</b>														✓								✓
<b>Cyber Security Systems</b>			✓			✓		✓						✓								
<b>Energy Market Systems</b>	✓		✓											✓								✓
Contract Management			✓											✓								
Market Simulation			✓																			
Monitoring			✓																			
Participant Management			✓																			
Retail Settlement			✓																			
Security Assessment			✓											✓								
Shadow Settlement			✓																			
Wholesale Settlement			✓																			
<b>IEC 61850 Tools</b>	✓		✓			✓		✓						✓		✓			✓	✓		✓
Configuration	✓		✓			✓		✓						✓					✓	✓		✓
Integration	✓		✓			✓		✓						✓	✓				✓	✓		✓
Specification			✓			✓		✓						✓					✓	✓		✓
Testing			✓			✓		✓						✓	✓	✓			✓	✓		✓
<b>Network Analysis</b>	✓	✓	✓		✓	✓					✓	✓	✓	✓				✓	✓			✓
Custom/Embedded Applications	✓		✓		✓	✓						✓	✓	✓								
Dynamic Stability/State Estimation	✓		✓		✓	✓						✓	✓	✓								
GIS Integration	✓		✓									✓	✓	✓								
Harmonic Analysis	✓	✓	✓		✓	✓						✓	✓	✓				✓	✓			
Impedance	✓	✓	✓		✓	✓						✓	✓	✓				✓	✓			
Load Flow	✓	✓	✓		✓	✓						✓	✓	✓				✓	✓			
Locked Rotor Analysis	✓	✓			✓	✓					✓		✓	✓								
Motor Start Analysis	✓	✓	✓		✓	✓					✓	✓	✓	✓								
Optimal Switching & Contingency Analysis	✓		✓			✓						✓	✓	✓								
Power Systems Control	✓		✓			✓						✓	✓	✓								
Protection Coordination	✓	✓	✓		✓	✓						✓	✓	✓				✓				
Reliability Analysis	✓		✓			✓						✓	✓	✓								
Short Circuit	✓	✓	✓		✓	✓						✓	✓	✓								
Subtransmission Generation Modelling	✓		✓									✓	✓	✓				✓				
Transient Stability	✓		✓		✓	✓						✓	✓	✓								
<b>Outage Management</b>	✓		✓																			✓
Despatching	✓		✓																			
Predictive/Identification Engines	✓		✓																			
Trouble Call Management	✓		✓																			
<b>Real Time Control &amp; Data Acquisition</b>	✓		✓			✓	✓	✓	✓									✓	✓	✓	✓	✓
Communications	✓		✓				✓	✓												✓	✓	✓
Distribution Automation	✓		✓			✓		✓						✓						✓	✓	✓
Distribution Management	✓		✓			✓		✓												✓	✓	✓

# software monitoring and control

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## PRODUCTS/SERVICES

Real Time Control & Data Acquisition (cont)	ABB Australia 61 3 9735 7302	Ampcontrol 61 2 4961 9000	AREVA T&D 61 2 9739 3000	Arthur D. Riley 64 4 472 7614	AVO New Zealand 64 3 348 5999	Cooper Electrical 61 2 8787 2796	CrispTech 1300 727 477	CSE-Uniserve 61 2 8853 4200	Dynamic Ratings 61 3 9574 7722	EA Technology Aust. 61 7 3161 4593	Enertel 61 2 9615 9117	Hill Michael 61 7 3236 4244	Lord Power Equipment 1800 128 000	Maunsell AECOM 61 8 7100 6543	Megavar 1 300 730 499	OMICRON electronics 61 3 9450 1507	Power Parameters 61 3 9450 1500	Schneider Electric 1300 369 233	SEL 61 3 9464 4711	Serck Controls 61 2 4941 1211	Siemens 61 3 9721 2000	Thew & McCann 61 7 3826 6000
Energy Management	✓		✓					✓											✓		✓	
Generation Control	✓		✓					✓							✓				✓			
IEC 61850 Systems	✓		✓	✓		✓		✓						✓	✓	✓			✓		✓	
Load Management	✓		✓					✓									✓		✓		✓	
Optimisation	✓		✓					✓											✓			
Power Quality Monitoring	✓		✓					✓									✓		✓		✓	
Protection	✓		✓					✓						✓	✓				✓		✓	
Protocol Conversion	✓		✓	✓		✓	✓	✓						✓					✓	✓	✓	✓
SCADA Systems	✓		✓	✓		✓		✓						✓	✓				✓	✓	✓	✓
Simulation	✓		✓					✓						✓			✓		✓		✓	
Substation Automation	✓		✓	✓		✓		✓						✓	✓				✓	✓	✓	✓
Transformers			✓					✓	✓						✓							
<b>Software Development/Customisation</b>			✓																			✓
Maintenance Management			✓																			
<b>Systems Design</b>	✓		✓			✓		✓						✓						✓		
CAD Systems			✓																			
IEC 61850	✓		✓			✓		✓						✓						✓		✓
Integration	✓		✓			✓		✓						✓						✓		✓
<b>Syncrophasors</b>	✓		✓					✓														
<b>Systems Integration</b>	✓		✓											✓					✓		✓	
<b>Web-based Remote Site Monitoring</b>	✓		✓			✓													✓		✓	✓



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- Fault Level
- Touch Potentials
- Cable Size and Capacity
- Voltage Drop in Volts and Percent
- Maximum Length of Run
- Actual Let Through Current
- Fuse or Circuit Breaker Size
- Cable Operating Temperature
- Minimum Trip Current needed to comply with Earth Loop Impedance Test
- Maximum Impedance Values (Ze) and the actual impedance
- Total Impedance Values (Zs) for the complete installation



## ELECTRICAL DESIGN SOFTWARE

- **Australian Standards**  
AS/NZS 3000:2007 3008.1.1
- **UK Standards**  
IEC BS 7671:2008 17th Edition
- **US Standards**  
NFPA70 (National Electric Code) 2008 ANIS



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