



## CONTENTS

### Page 1

Warwick Glendenning  
PSC Group CEO

### Page 1

PSC successfully supports  
ElectraNet's Network Upgrade

### Page 2

PSC plays key role in success of  
Transpower's SCADA Upgrade

### Page 2

Project Management a Core  
Competency  
Reflecting World Best Practice

### Page 3

Congratulations to Edward, Keith  
and Mark

### Page 3

Oxfam Trailwalker 100km Team  
Challenge

### Page 4

PSC welcomes new staff

### Page 4

Cambridge Junior Cricket 1stXI

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## Warwick Glendenning PSC Group CEO

Power Systems Consultants is pleased to announce the appointment of Warwick Glendenning as the Chief Executive Officer of the PSC Group. Warwick joined PSC in 2001 as a Project Manager and has also been the company's Operations Manager responsible for managing the SCADA and Market Systems support contracts for PSC's clients in Australia and New Zealand. In 2006 Warwick moved to Wellington to take up the position of General Manager based at the company's head office. He holds a Master of Technology Management Degree from Waikato Management School and is a Chartered Professional Engineer in New Zealand.

Warwick's background is in the planning, design, project management and operation of telecommunications and IT networks and he has previously held senior IT and telecommunications management positions at the University of Waikato and Transpower New Zealand.

Warwick will continue the strong working relationships that PSC has with its clients to meet their operational and project needs. PSC support and project services are tailored to match the specific requirements of each client. Warwick can be contacted at [warwick.glendenning@psc.co.nz](mailto:warwick.glendenning@psc.co.nz)



## PSC successfully supports ElectraNet's Network Upgrade

In one of the most significant network upgrades to the electrical transmission network in South Australia, ElectraNet recently completed a new 275 kV six diameter switchyard at Tungkillo and the soon to be completed upgrade of the Cherry Gardens 275kV / 132 kV Substation.

The PSC team worked with the ElectraNet SCADA team for more than 12 months to configure the ElectraNet SCADA Master Station from concept to completion for this very significant and successful project. The work included database and display designs and quality assurance to ensure correct database and displays were available during each planned outage and network augmentation.

The new Tungkillo switchyard is situated near Mount Torrens in the Adelaide Hills and is a vital infrastructure development for South Australia's transmission network switching large amounts of energy on demand to support ETSA Utilities bulk supply points in the southern suburbs.

Together with the rebuild of the Cherry Gardens substation (now supplied by Tungkillo) which involved extensive line entry / exit rearrangements; this network upgrade provides major reinforcement of the electricity supply for both the eastern Adelaide Hills region and the rapidly expanding southern suburbs of Adelaide.

Tungkillo Switchyard



# PSC plays key role in success of Transpower's SCADA Upgrade

Transpower has recently completed a major project to upgrade its SCADA and Energy Management System (EMS) to effect a new highly secure and reliable architecture in line with current world best practice. And PSC held the vendors front line of delivering this project on the ground!

The original SCADA/EMS system was implemented in the obsolescent VMS / Alpha platform, and its performance, availability and security required enhancement to keep up with the current operational standards. Threats of cyber-attack on critical utility infrastructure has become a major driver in the design of utility IT systems since those days, and these made it essential that the best practice standards of security were implemented in the new system.

PSC worked together with AREVA T&D, a huge global company with 23,000 employees worldwide, to supply Transpower with a new AREVA **e-terra**platform™ 2.3 SCADA & EMS system. The basic platform software received a number of customisations in AREVA's Redmond, USA facility, before being delivered to New Zealand for staging, configuration and integration, with PSC acting as sub-contractors to AREVA.



John Cook (Transpower Project Manager), Patrick Carroll (PSC) and Noel Livick (Transpower) manning the "war room" during commissioning to service



Graham Long & Adam Marshall front a photo showing the combined AREVA/PSC/Transpower team spirit during a loud shirt morning tea

PSC's Graham Long and Adam Marshall were the first on the ground on-site in Wellington in July 2006, with Graham as Site Manager and Adam as System Administrator. It was a big job, especially given Transpower's detailed acceptance testing programme. As well as being sub-contractor to AREVA, PSC also provided the resources of Sarah Leask and our Hamilton SCADA support team to work directly for Transpower. John Grace and Simon Lister with assistance from Ross Murdoch and Ross Jones also worked on the telecommunications aspects of the job directly for Transpower.

The fact that there were some 56+ servers in 4 separate environments to configure and test stretched the team's capabilities, but with the help of PSC's Graeme Dickason, Patrick Carroll, Kevin Hart, and Jonathan Zukerman (and of course working alongside Nicolas, Chris and Surya from AREVA and all the people on the Transpower side), we pulled it off.

The new system was commissioned successfully and Transpower is now benefiting from the greatly improved performance, availability and functionality of their new **e-terra**platform™ 2.3 system. Thanks are due to all for going the extra mile to make this project a great success for Transpower, for AREVA and for PSC.

## Project Management a Core Competency Reflecting World Best Practice

Project management is a specialist competency. PSC's project managers are experienced in working under a variety of project management frameworks and methodologies, and are known for their technical skills and practicality in successful project delivery. They have direct experience in managing a wide range of projects from initiation through to closure and operations.

PSC's projects are managed within the scope of PSC's ISO 9001:2000 certified quality management system, and are designed to deliver projects safely and to requirements.

An area where PSC's project managers excel is in the balance

between specialist project management capability and technical knowledge in the field of the project being delivered. This enables a fuller perspective of risks and issues enabling PSC to deliver better value to our clients.

PSC project services also include regularly acting in 'Engineer to Contract' and 'Owners Engineer' roles on behalf of our clients.

In 2008, PSC is implementing an enhanced PM framework across PSC's project activities. This activity is being lead by PSC's Quality Manager Edward Hall (PMP - certified Project Management Professional).



ISO 9001



# Congratulations to Edward, Keith and Mark

PSC would like to congratulate Edward Hall, Keith Fisk and Mark Gilchrist who have all recently completed 10 years of excellent service with the company. Edward Hall started his career with PSC as a Project Manager with specific responsibility for Fibre Optic projects. He has since been appointed as the company's IT Quality and Safety Manager responsibly for the quality, safety and IT services within the company. Edward was the manager responsible for the planning and implementation of the quality management systems when PSC was successfully certified as an ISO9001:2000 supplier.



Keith Fisk, PSC Director Tony Armstrong and Mark Gilchrist

Keith Fisk is a Senior Engineer and has extensive experience in the specification, design and commissioning of generation and transmission SCADA and automation systems. Keith was PSC's design leader for a protection runback scheme for New South Wales in Australia. Mark Gilchrist is a Technical Specialist experienced in generation and transmission control, protection and metering equipment. Mark is an expert in HVDC systems and has completed maintenance and commissioning for HVDC stations in Australia and New Zealand, as well as commissioning new HVDC links in China, Norway and South Africa.

Edward, Keith and Mark have all shown dedication to their projects and the PSC management team would like to thank them for their commitment and excellent service over the past 10 years.



PSC Director Tony Armstrong and Edward Hall

## Oxfam Trailwalker 100km Team Challenge

Oxfam Trailwalker challenges your team to walk or run 100kms through some of central North Island's most spectacular terrain in 36 hours. Trailwalker is not a relay - team members must start and finish together.

The team of 4 - Chris Twiddell, Jason Taane and Craig Luccock from St Peters School Cambridge and Murray Brown from PSC's Hamilton office took on the challenge. Training started before Christmas with each of the team covering up to 800km each before the event. The event started on Saturday the 5th April at 6am with 2 groups of 600. After a slow start near the back, the front runners took a wrong turn which left us near the front and a clear road ahead to check point 1. The trail went past Huka falls through the Craters of the Moon and then through farm land and forestry tracks stopping for a late lunch in Kinloch at the 38 km mark. The longest leg stretched out ahead of us some 19 km. Hot soup went down a treat for dinner at the next check point as we walked into darkness. Back across Huka falls took us to the 75 km mark. The physiologically difficult part was realising we still had over half a marathon to walk most of which was up hill behind Mt Tauhara. As the sun rose we left the last check point with 13 kilometres left to the finish line and with only a short distance to travel it was hard to decide who was pushing who along as all we wanted to do was finish and crawl into a soft bed. Chris and Murray crossed the finish line in 27 hours 45 min in 109th place out of 262 teams. Craig and Jason had to retire with injury but have said they will be back next year to give it another go.



Chris and Murray cross the finish line

A big thank you goes to our support crew of 5 - Doniella, Daphne, Simon, Scott and Josh, and all of our sponsors. Refer to [www.oxfam.org.nz/oxfam\\_trailwalker/](http://www.oxfam.org.nz/oxfam_trailwalker/) for trail information.

Below: The Oxfam Trailwalker Team Craig, Chris, Jason and Murray



# PSC Welcomes New staff

## Ramu Naidoo

Ramu Naidoo has recently joined PSC as an Electrical Engineer. Ramu has completed an MSc in Electrical and Computer Engineering and a PhD in Industrial Engineering (Optimisation). He has previously worked for the transmission system operator Eskom in South Africa and has extensive experience in network planning, system studies, AREVA market systems and research and model development for power system optimisation. Ramu will be working in the New Zealand Engineering group based in Wellington.



## Sarah Campbell

Sarah Campbell has joined PSC Australia as a Consultant. Sarah has a legal background and before joining the power industry worked as a Solicitor in general and commercial law in Australia, New Zealand and the United Kingdom. Sarah is experienced in the legal issues relating to easement acquisition including contract, environmental and property requirements. Sarah is currently involved with transmission line easement acquisition for the Australian Engineering group.



## Jonathan Zukerman

Jonathan Zukerman has joined PSC USA as a Market Systems Engineer, having made the transfer from PSC New Zealand. Jonathan has degrees in computer science and operations research and has six years experience with electricity market systems in New Zealand and the USA. He has extensive experience with optimization engines and techniques. Jonathan is based at PSC's US office in Seattle, Washington.



## Andrew North

Andrew North has joined PSC Australia as a SCADA Engineer. Andrew has extensive experience in OSI PI systems including design, development, technical support and data analysis. He also has experience with software development and Oracle database administration. Andrew will be working in the Australian SCADA/EMS group.



## Selina Lyons

Selina Lyons has recently joined PSC Australia as a Senior Engineering Consultant. Selina has extensive experience in power systems, program management, project development and SCADA and has held senior management roles providing project delivery for transmission line and substation projects. Selina will be working in the Australian Engineering group.



## Tony Nguyen

Tony Nguyen has joined PSC USA as a Market Systems Engineer, having made the transfer from PSC New Zealand. Tony has degrees in electrical engineering and computer science, and over ten years' experience in the electricity industry. His experience includes work on the New Zealand electricity market and with two Independent System Operators (ISOs) in the United States. Tony is based at PSC's US office in Seattle, Washington.



## Patrick Carroll

Patrick Carroll has joined PSC USA as a SCADA engineer. He comes to PSC with degrees in computer science and mechanical engineering and over 24 years experience in the electrical utilities industry, with over 15 years working on control systems. He has extensive experience working with utilities in the United States and Australasia and has experience with Independent System Operators (ISOs). Patrick is based in Massachusetts.



## Cambridge Junior Cricket 1stXI



The Cambridge Junior Cricket 1stXI side plays in the Hamilton Intermediate 1stXI competition. The team was selected in February after trials and is a young side with the majority being year 7, and they are competing against sides made up of year 8 players.

Currently in 4th equal position the team has had some outstanding performances for their experience and can only get better in the 4th Term. The goal will be to repeat last year's achievement of making the semi-finals, and as the All Blacks found out anything can happen then!

Out of the 12 players selected, 8 are currently in either the Waikato Valley Primary A or development representative sides. This is an excellent achievement when you are competing against Hamilton's top teams. The Cambridge Club and the 1stXI side wish to thank PSC for the sponsorship of the team shirts and hopefully will have the trophy at the end of the year to proudly include in the team photo.

