

**PSC**

Power Systems  
Consultants

# PSC NEWS

NEWS AND VIEWS FROM THE TEAM AT POWER SYSTEMS CONSULTANTS

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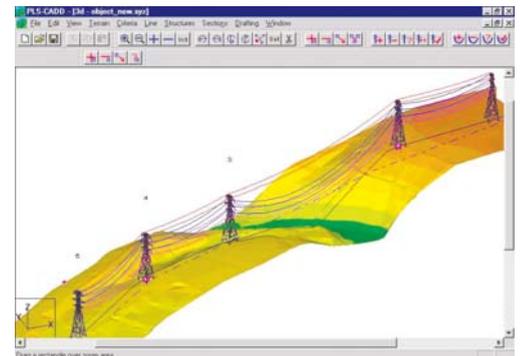
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## TransGrid Aerial Laser Survey (ALS) Project in NSW Australia

TransGrid Australia recently awarded Power Systems Consultants and OPTEN an ALS project requiring the surveying of 2500km of their transmission network throughout New South Wales in Australia. Aerial laser surveying (ALS) of transmission lines is conducted by a helicopter fitted with a high accuracy laser system.

PSC and OPTEN started the aerial laser survey work in late March and completed the field data collection stage in May. This portion of the works can be a logistical challenge for any Project Manager but thanks to the combined efforts of Ross Crust and Tim Drake of PSC, Owen Smallfield of Connell Wagner, Helicopters Australia and the team from OPTEN lead by Andrey Makarov, the works were completed successfully with minimal issues and within the original program.

Working in different countries has become part and parcel of being involved in ALS projects. This is particularly true, considering the vast areas covered in a short period of time and the general lack of local area knowledge contained within the team. Despite this, the projects have gone very well and the average Aussie or Kiwi wouldn't even know we'd been there. It also allows the ALS team to venture into areas to which most of us will probably never see. A bonus of the job one might say.

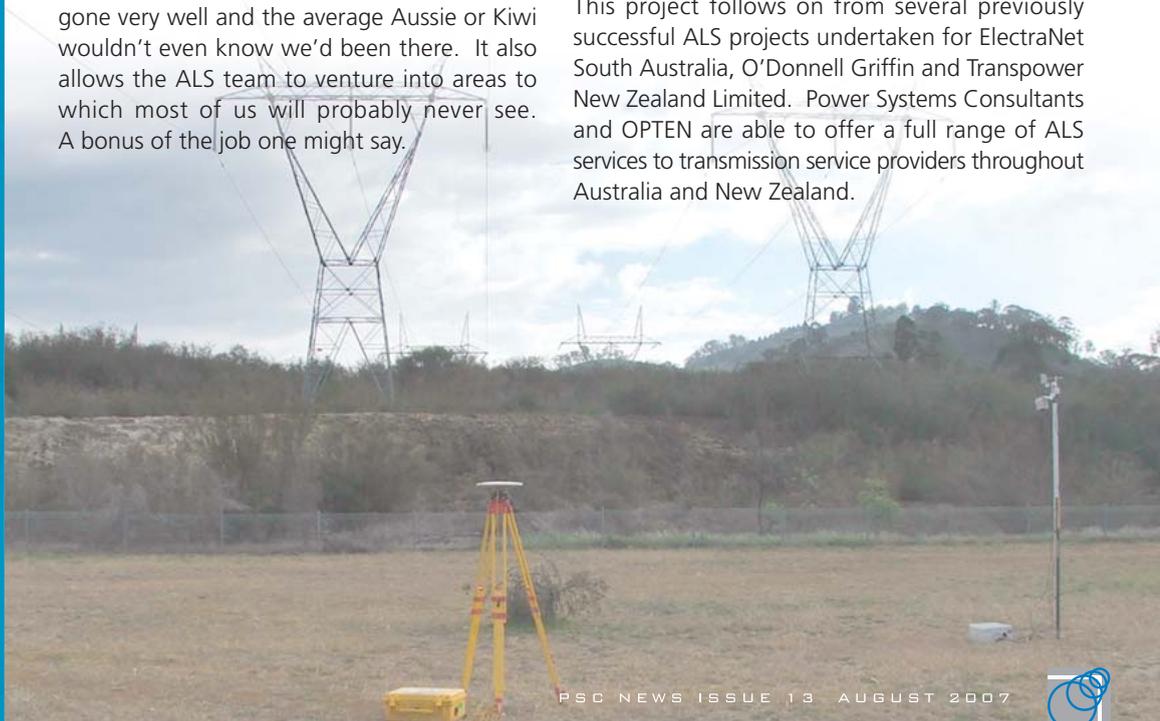


PLS-CADD transmission line model

Stage 2 of the works will be completed in Moscow where the data will be processed, compiled into an agreed format and delivered to the customer. Staff from both PSC and TransGrid will oversee the initial review and once agreed, processing and delivery will commence.

Power Systems Consultants would like to thank TransGrid for their support and cooperation to date and also extend a thank you to Helicopters Australia who provided helicopter services throughout the entire project.

This project follows on from several previously successful ALS projects undertaken for ElectraNet South Australia, O'Donnell Griffin and Transpower New Zealand Limited. Power Systems Consultants and OPTEN are able to offer a full range of ALS services to transmission service providers throughout Australia and New Zealand.



# NEMMCO awards Energy Management System Support Contract to PSC

The National Electricity Market Management Company Limited (NEMMCO) administers and operates Australia's National Electricity Market which includes the States of Queensland, New South Wales, Victoria, South Australia and Tasmania, and the Australian Capital Territory. Since 1999, PSC Australia has been providing support for both NEMMCO's Market and Energy Management systems and after a competitive process was recently awarded a new EMS support contract for 3 years.

PSC already have a number of staff based in NEMMCO's Dispatch and Security centre in Sydney. PSC staff work with the NEMMCO support teams providing both front line support for the operational systems as well as assisting in the enhancement and development of these systems. These NEMMCO systems are recognised as being industry leading and PSC rightly values the strategic importance of this latest support contract.

PSC looks forward to continuing to work with NEMMCO and to build on our already close relationship as the sector continues to expand and change over time.



Andrew Dunn (right), Head of Energy Management Systems at NEMMCO hands the contract to PSC's General Manager Warwick Glendenning at NEMMCO's Head Office in Melbourne

## Alex Boyd to lead PSC USA

PSC is pleased to welcome Alex Boyd as President of its operations in the United States. Alex holds a degree in electrical and electronic engineering from the University of Canterbury in Christchurch, New Zealand. On graduation he held various engineering and project management roles with Electrix Limited, a New Zealand national engineering contractor. Following Electrix, he was Distribution Services Manager for ALSTOM in New Zealand. While at ALSTOM he left New Zealand for Australia to take up project management roles for electrical utility projects. While there he also took on a product management role for ALSTOM's software based control system products. Alex transferred again with ALSTOM to Seattle, Washington to join what is now AREVA T&D in their energy management system product group where he was responsible for the development of AREVA's **e-terrahabitat** and **e-terraplatform** products.

Alex returns to Seattle to head up PSC USA after living in New Hampshire USA where he obtained a Masters of Business Administration from the Tuck School of Business at Dartmouth College. He will continue the Power Systems Consultants legacy of focusing closely on the operational and support needs of our customers and partners through a high level of technical expertise of all our staff and strong working relationships at all levels of the business. Alex can be contacted at alex.boyd@psc.us.com.



Power Systems Consultants Inc.  
President Alex Boyd

## SCADA Upgrade at ISO New England

PSC's SCADA Engineer William Malcolm has just completed an assignment at ISO New England for the upgrading of their Energy Management System (EMS) to AREVA **e-terraplatform** version 2.3. ISO New England is the system operator that manages the bulk electric transmission and generation system for all of New England with a capacity of 31,000 megawatts. ISO New England also administers the region's \$4.5 billion wholesale electricity



marketplace. The AREVA EMS system is clearly a critical facility for the smooth running of the New England economy, and PSC is proud to have played its part in equipping it for the future.



## ***Kent and Family Playing Bandy in Ludvika***

Not many people have heard of the sport of "bandy", and so was the case with the Horan family before they came to work in Ludvika, Sweden. But during this last winter all four in the Horan family were on the field when the Grängesberg bandy Club started up their bandy school. The boys - Hamish (7) and Angus (5) - took a few uncertain and staggering steps on their skates which dad Kent had bought.

"Bandy seems to be a fun sport. A workmate at ABB is in the bandy club, and it was his idea that our boys should join the Bandy school" said Kent.

The Horan family moved to Ludvika, Sweden in September 2006 where Kent took up a secondment with ABB for HVDC control

system development. Since moving to Ludvika the family have completely thrown themselves into the Swedish way of life. The boys attend the local school and have picked up the Swedish language nicely.

At work Kent is currently assisting ABB with the Apollo converter station refurbishment project on the Cahora Bassa HVDC transmission link. This project involves a complete station refurbishment including the installation of ABB's unique air insulated outdoor thyristor valves. The system is currently under factory development with site commissioning work scheduled to start in March 2008.

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## ***PSC Scholarship in 2007***

Power Systems Consultants continued the tradition of celebrating the announcement of its annual scholarship at the University of Canterbury by holding a spit-roast barbeque for electrical engineering staff and students. As in previous years, the function for the presentation of the "PSC Scholarship" for 2007 was held in an appropriate venue - one of the Engineering School labs.

PSC is pleased to continue its association with the University of Canterbury, School of Engineering. This scholarship was established in 2004 and enhances the relationship between PSC and the Electric Power Engineering Centre (EPECentre). The EPECentre is based in the Department of Electrical and Computer Engineering and was set up to promote and support the education of power engineers and the study of power engineering as a field of excellence in New Zealand.

The PSC Scholarship is open to students in their 3rd professional year, who are focusing on power engineering subjects and have demonstrated excellence in their studies.

Chris Collie-Holmes, PSC's Electrical Engineering Manager, presented the 2007 'PSC Scholarship' to Andrew Laphorn. Andrew is a third



*PSC Scholarship recipient Andrew Laphorn with PSC's Electrical Engineering Manager Chris Collie-Holmes and Professor Pat Bodger*

year student with a keen desire to progress on to studies for a Masters degree, and PSC along with Professor Pat Bodger from the Engineering School, wish him success in his endeavours.

# PSC welcomes new staff

## Murray Brown

Murray Brown has recently joined PSC as a SCADA Engineer. Murray has extensive experience in the communications industry with key capabilities in technical support and training for multi access radio systems and VoIP networks. Murray will be based with the PSC Hamilton team working on the Transpower SCADA and EMS support contract.



## Karyn McLachlan

Karyn McLachlan has joined PSC as a Telecommunications Consultant. Karyn has extensive experience in the deployment and maintenance of telecommunications infrastructure and fibre systems for the electricity industry. This includes equipment installation and commissioning, equipment maintenance, design specification preparation and project management. Karyn will be working in the PSC Telecommunications and IT Infrastructure group based in Wellington.



## Ramitha Wettimuny

Ramitha Wettimuny has joined PSC recently as a Market Systems Engineer. He has a Master of Science degree in Electrical Engineering from Clarkson University in New York, USA. Ramitha has worked for the Midwest Independent System Operator (MISO) in Indiana USA and has experience in market systems testing and integration, software development and applications support. Ramitha will be working in our Market Systems Group on projects and support activities.



## PSC celebrates 5 Year staff anniversaries

In recent months, PSC has celebrated the five year anniversary for three staff members.

Congratulations go to Graeme Dickason, Tracy Beleski and Ross Jones who have all completed five years of excellent service with PSC.

# Congratulations to Tri and Jusmin

Congratulations to Tri and Jusmin who were recently married.

Tri is a Senior Market Systems Analyst for PSC working on the Market Clearing Engine Support contract for the Energy Market Company in Singapore.



*Jusmin and Tri with Tony and Robyn Armstrong*