



Specialist Consultants
to the Electricity Industry

PSC NEWS

News and Views from the team at PSC

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EMC Market Support Contract Awarded to PSC

PSC is a leading electricity market systems support organisation in the Asia Pacific region with support teams currently working across three jurisdictions in Australia, New Zealand and Singapore.

PSC have been providing support to the Energy Market Company Pte Ltd (EMC) in Singapore for their Market Clearing Engine since 2003 when they opened for trading. EMC operates Singapore's wholesale electricity market known as the National Electricity Market of Singapore (NEMS) and is the exchange for wholesale electricity trading, providing a transparent and competitive trading platform. Within the NEMS system, the pricing and dispatch schedule functions are carried out by the Market Clearing Engine (MCE).

In 2012, PSC tendered for and was successful in being awarded a contract to provide EMC with MCE maintenance and support services for five years. The new contract starts in January 2013 and some of the services that PSC will provide include monitoring and reporting, studies and analysis, supporting the market rule formulation process, and enhancement and development. Over the past nine years, PSC has been involved in many upgrades to the MCE including changes to accommodate adjustments to market operations and rules, application

upgrade to Microsoft .NET technology framework, and new tools for offline analysis and training.

PSC looks forward to working closely with EMC over the next five years and build on the excellent relationship we have with one of our major long term clients.

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Back: Dave Carlson – EMC Chief Executive Officer, Tri Le – PSC Senior Market Systems Engineer, Simon Oliver – PSC Senior Market Systems Engineer, Tony Armstrong – PSC Group Chairman & Director
Front: Warwick Glendenning – PSC Group Chief Executive Officer, Toh Seong Wah – EMC Senior Vice President, Market Operations and Information Technology.

PSC to support Open Systems International Inc.

PSC is pleased to announce that it has entered into a Memorandum of Understanding with Open Systems International Inc. (OSI) of Minneapolis, Minnesota, USA. PSC will provide system integration and support services for OSI's comprehensive range of energy related products and systems to utilities in the Australia and New Zealand regions.

OSI is a supplier of open automation solutions for real-time energy management and optimization of complex production, transport, and delivery networks for utilities in the electric, oil and gas, transport, and water industries. OSI was founded in the early 1990's with a vision to create a company dedicated to development of innovative real-time automation solutions based on the latest open IT standards.

"We are very impressed by the strong engineering resources which PSC can offer OSI and our customers, in support of project implementations in Australia, New Zealand and other selected Pacific territories. We look forward to working with PSC to bring OSI's best in class technologies to more utilities in Australia and New Zealand, as well as improving OSI's support services to our existing customers in these markets," said



Brian Rasefske – OSI Vice President of Engineering, Ron Ingram – OSI Corporate Vice President, John O'Hehir PSC Director and Dennis Morrison – OSI Sales Manager at OSI's headquarters in Minneapolis.

Bahman Hoveida, OSI President and CEO.

PSC has been providing excellent service to utilities in the Australasian region for over 17 years and we are looking forward to expanding our service capability to our customers by developing a strong working relationship with OSI. The relationship will be developed through providing delivery and maintenance services to OSI's customers and through interaction between OSI and PSC's Minneapolis, Minnesota based team which is in close proximity to OSI's global headquarters.

This new agreement with OSI will allow PSC to deliver even more capabilities to our valued clients in the Australasian region and provide OSI, when selected as the vendor of choice, with a dependable

'downunder' based delivery and maintenance team with many years of local experience.

OSI (www.osii.com) provides open, state-of-the-art and high-performance automation solutions to utilities worldwide. These solutions include Supervisory Control and Data Acquisition (SCADA) systems, Network Management Systems (NMS), Energy Management Systems (EMS), Distribution Management Systems (DMS) and Generation Management Systems (GMS); as well as individual software and hardware products and Smart Grid solutions for utility operations. OSI is headquartered in Minneapolis, Minnesota, USA.

Marc Brunet-Watson – Engineering Manager for PSC North America

PSC North America is pleased to welcome Marc Brunet-Watson as Electrical Engineering Manager. Marc has considerable experience in power systems engineering and his technical expertise ranges from transmission network planning and operation to infrastructure investment analysis and project sponsorship. Marc is highly valued for his understanding of transmission plan development and implementation in a regulated operating environment, and for his detailed knowledge of the technical and financial operation of energy markets.

Marc is well known to PSC as a former customer, first at Transend Networks and then at Western Power in Australia. After choosing to return to his native Canada and completing his master's degree, Marc joins the PSC team in large part due to the professionalism and integrity he observed in his dealings with the firm.

Marc has a Bachelor of Electrical Engineering and will be completing a Master of Business Administration in December 2012 from the University of British Columbia's Sauder School of Business in Vancouver, Canada. His business education combined with



his technical experience make him highly qualified to provide a range of specialized strategic management services to the electricity industry. Marc starts with PSC in January 2013.

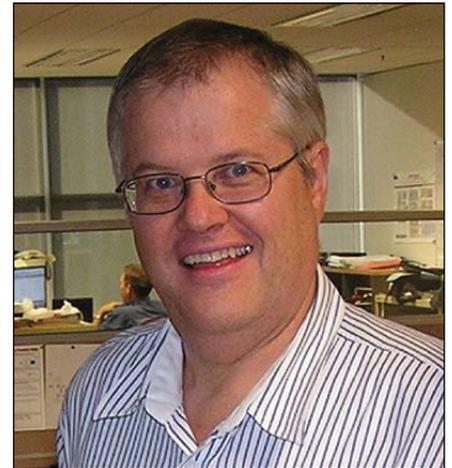
Andrew Dunn – National Control and Telecommunications Manager joins PSC Australia

PSC is pleased to welcome Andrew Dunn to the PSC team in Australia. He brings over 20 years of utilities industry experience to PSC and in the role of National Control and Telecommunications Manager in our Australian operation.

Prior to joining PSC, Andrew held a variety of senior management positions with AEMO (Australian Energy Market Operator) most recently as Group Manager IMT Development where he led a team of 50 development staff to deliver software solutions for the electricity and gas markets including SCADA/Energy Management Systems for

the management of these networks.

Andrew brings extensive expertise in the design and operation of electricity and gas markets. This includes significant experience in the design, upgrade, operation and management of electricity and gas SCADA systems and Energy Management Systems. Andrew has also completed project management for the design and construction of high availability, high security data centres and control centres. He will be working to develop PSC's business in Australia as well as providing expert strategic advice to our customers worldwide.



Andrew joins PSC on 21 January 2013. Andrew can be contacted at andrew.dunn@pscconsulting.com

Update on Chris Collie-Holmes' work with Transpower

Since coming back from a three year stint working with PSC Australia, Chris has carried out a number of tasks within Transpower, mostly focussing on the North Island Grid Upgrade Project (NIGUP). First he was assisting the substations programme manager with solution study reports and liaising with the designer and Transpower technical staff, and then he was assisting the Whakamaru project manager with procurement and site queries during the construction phase.

Chris then took on the role of commissioning manager for NIGUP. This came about through a request from the acting project director for a person who understood the project, knew the people involved across the lines, substation and cables disciplines and was familiar with the System Operator and Regional Operating Centre. Although there isn't a role of commissioning manager as such in the standard and specification covering the commissioning process, it was seen that there was a need for a single point of contact to 'pull it all together'. For Chris it was an ideal opportunity to bring together his system



Chris Collie-Holmes (right) and several members of the NIGUP commissioning team.

operations, engineering and project management experience.

In this role as commissioning manager, Chris held regular meetings with contractors, field staff and operations personnel, and with key internal stakeholder groups, to ensure the overall commissioning plan was understood and to provide opportunity for high level feedback. Good open communication within the commissioning team and senior management was the key to a successful commissioning over a three

day period in October 2012.

Chris has also assisted with the NAaN project, and led the working group to establish agreements leading to the temporary paralleling of two of Transpower's points of supply in Auckland via Vector's Penrose and Roskill cables into Liverpool St substation. He is also providing on-going assistance to the project manager of the Haywards Condenser refurbishment project. Chris is enjoying the challenge of assisting Transpower with these important projects.

PSC Welcomes New Staff

PSC welcomes new staff, and is continuing its recruitment of industry leading people to meet the growing demand for services in the specialist areas that we support.

Daniel Watt

Daniel Watt has joined PSC Australia as a Senior Transmission Lines Engineer. Daniel is a Chartered Professional Engineer (CPEng) and Registered Professional Engineer of Queensland (RPEQ) in the areas of Electrical & Structural Engineering. Daniel has been responsible for the design of electrical reticulation for overhead and underground distribution and transmission projects. He also has experience in a number of software packages for the modelling of overhead transmission networks. Daniel will be based in our PSC office in Adelaide.



Jared Matthews

Jared Matthews has joined PSC New Zealand as a Senior Control Systems Engineer. He holds a Bachelor of Engineering degree (Electrical and Electronic) from Auckland University and has over 10 years' experience in substation automation, protection and control systems. This includes software engineering for SCADA control systems for electricity transmission, distribution and generation clients. Jared will be based in our Auckland office.



Henry Kubacki

Henry Kubacki has joined PSC New Zealand as a Senior Control Systems Engineer. Henry has 36 years' experience in control systems projects, the last 16 years of which have been in the electrical power industry. Henry specialises in SCADA and substation automation and control and has been associated with a wide range of projects throughout New Zealand and Australia. Henry will be based in our Auckland office providing services to our transmission, distribution and generation clients.



Robin Lane

Robin Lane has joined PSC North America as our Office and Administration Manager. She holds a Bachelor of Arts in Business Administration and International Studies from the University of Washington. Prior to joining PSC Robin held a wide range of operations management functions in areas such as accounting, sales and marketing, supply chain and human resources. She has worked for multinational companies in various industries including oil and gas, legal and education. At PSC Robin is responsible for all administration functions and will fill a supporting role to the finance function for PSC North America.



Rob Sewell

Rob Sewell has joined PSC as the Group Management Accountant. He holds a Bachelor of Commerce and Administration majoring in accountancy and commercial law, and is a full member of the New Zealand Institute of Chartered Accountants. Rob has previously worked for PricewaterhouseCoopers and Ernst & Young and has over six years extensive experience in external statutory financial reporting, and periodic management reporting for a wide range of entities across a wide spectrum of industries. Rob will be based in our Wellington office in New Zealand.



Kalyan Chilukuri

Kalyan Chilukuri has joined PSC New Zealand as an Electrical Engineer. He holds a Bachelor of Electrical Engineering degree from the University of Auckland and has recently been based at the New Zealand Aluminium Smelter (NZAS) where he managed the power system model which included a range of studies including arc flash, short circuit and loadflow. He was also involved in the electrical plant equipment upgrades at the smelter. Kalyan will be based in our system studies team in our Wellington office.

