



Specialist Consultants
to the Electricity Industry

PSC NEWS

News and Views from the team at PSC

Issue 20 | November 2009

Choosing the right tie

Tony Armstrong, director and founder of PSC once commented that choosing the right tie was a difficult challenge for an engineer. An annoying superficial issue for technically inclined people but never-the-less important for first impressions.

First impressions are also in many ways what a good company image is all about. PSC's own image has evolved from its history.

Power Systems Consultants was established in May of 1995 with a staff of two. Thirteen years later PSC is bordering on 100 and services clients from multiple locations around the globe. The growth and success of PSC has come about due to some compelling differences that the company and people deliver to. This has seen PSC build an outstanding track record for excellence.

Earlier this year we recognised we were not capturing and promoting these differences well. This led us to embark on a review and ultimately an upgrade of our company image. Several months on and we are proud to announce our name change from Power Systems Consultants to PSC. We are also happy to clearly state we are 'specialist consultants to the electricity industry'.

Changing our name and clearly stating who we are was the simple part, we also recognised we faced a bigger challenge. We needed a concise way to articulate the value we deliver for our clients. In other words we needed to 'choose the right tie'.

As a result and after much thought we are excited to launch a new brand image we call the 'art of power'.

The 'art of power' is a summary of our compelling points of difference. Differences that have substance behind them and are proven by our successful delivery of numerous challenging projects.

We think of this new credo as intrinsic to how we pursue excellence in our chosen field. From passion to power thinking there is quite a bit to it. You can review what it is all about in the 'Why PSC' section of the new PSC website www.pscconsulting.com

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HVDC Around the World

PSC grew out of HVDC. Its founding members all had a common background, the New Zealand HVDC Upgrade project that took place during 1989-93. When PSC formed in 1995 the first job that PSC completed was warranty support for the New Zealand HVDC link.



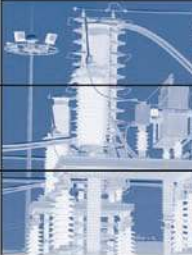


Following on from this PSC has been involved in numerous HVDC projects around the world (as illustrated in the HVDC timeline). And while PSC's services have since expanded to include many different sectors in the electricity transmission and distribution industry, HVDC has always remained a core business area for PSC.

PSC is passionate about HVDC, and the reasons are quite simple. HVDC projects provide a technical challenge, they offer continually evolving technology, and they provide a great variety in their application. In particular the development of the voltage source converter for bulk power transfer has created opportunities for many new projects that would otherwise be infeasible. For these reasons our staff have always been keen to participate in HVDC projects around the world. PSC staff have experience with both classical monopolar or bipolar HVDC as well as HVDC Light VSC links.

PSC's HVDC services cover all phases of a project, from conceptual design through to operation and maintenance support. Our services include specification development, design of main circuit, control system, and auxiliary services, factory testing, installation, commissioning, warranty support, and operational maintenance response. PSC's project management and quality assurance disciplines underpin all of these activities.

Most HVDC projects involve enabling works that fall into other sectors of the industry. With PSC's broad range of services we are well placed to support transmission line build / upgrades, communications links and IP networking, gateways to customer SCADA systems, and wholesale electricity market updates.

PSC HVDC Timeline

	Development / Maintenance	Commissioning
1989-1993	NZ Upgrade	NZ Upgrade
PSC Formed		
1995	NZ HVDC Warranty Support	
1996		
1997	MACH 2 Control System Development	
1998		
1999	Swepol	
2000	Gotland	
2001		Directlink
2002	Murraylink controls support runbacks, remote control	Murraylink
2003		
2004		
2005		
2006	Valhall Sharyland	Three Gorges Eastlink
2007		Apollo NorNed
2008	Nord EON NZ Upgrade Specification	SAPEI
2009		

PSC EMS Training Courses

Continuing education for our support engineers

The new PSC Adelaide office was the location of this year's Energy Management System administrators course as part of our continuing education programme for our support engineers.

This was a five day long training course in AREVA technology for five PSC team members and five client engineers. The training was aimed at new and experienced analysts whom support the AREVA SCADA EMS platforms at power utility master stations. Client sites include ElectraNet SA, SP AusNet VIC and Power & Water Corporation NT.

The course content consisted of presentations and exercises, with each participant required to use their laptop to work through the various exercises both individually and as work groups. At the conclusion of the training all participants gained confidence with a better understanding of the product and the extra knowledge will assist them in their daily support duties.

All participants expressed their appreciation for the efforts of the USA based instructor, Ken Sommers, who



presented these training courses. A key driver for staging the training courses is continuing the education for our SCADA support engineers so they are in the best possible position to provide

support for the latest release of the AREVA EMS / SCADA systems.

TCOR Security Patrol Services in Australia and New Zealand

PSC and Opten have successfully provided Aerial Laser Surveying (ALS) services of transmission lines and substations for clients in both Australia and New Zealand since 2002. PSC and Opten are now working with GeoDigital International to offer Transmission Corridor Observation & Recording (TCOR) security patrol services throughout Australasia. GeoDigital work with the highest quality ALS systems available, so our clients can receive a service that is more efficient in terms of timing while still providing the highest available quality data.

TCOR data can be used for the following,

- Security patrols
- Vegetation growth analysis and violations on easements
- Engineering grade deliverables
- GridIntel Database populated with results & data from aerial inspection
- Change detection and comparison with previous years data
- General ALS activities

The data presented to the client is easy to view and this ensures that the information can be used by both engineering and maintenance personnel as required. PSC, Opten and GeoDigital will continue to offer the best ALS services to transmission service providers throughout Australia and New Zealand.

PSC Welcomes New Staff



Henry Lwin

Henry Lwin has joined PSC Australia as an IT Consultant (J2EE, Java and Oracle). He has over ten years experience in the IT industry and has been involved in the design, development and testing of software applications including J2EE and Java Swing technologies. Henry holds Bachelor degrees in

Electrical Engineering and Applied Science (Computer Technology) and will be assisting our clients in Western Australia with support and development services.

PSC 5 Year staff anniversaries

In recent months, four New Zealand based staff members have completed five years of excellent service with PSC. PSC is proud of its long term staff employment record and congratulates Stewart Drake, Ross Murdoch, John Prattley and Greg Fisk for their hard work over the past five years with PSC.

The New PSC Adelaide Office

After assisting ElectraNet South Australia for several years with various telecommunications engineering consultancy and SCADA project assignments, PSC opened an Adelaide office in a serviced office located across the road from ElectraNet in mid 2007.



This was shortly after the start of the SCADA Support Contract for ElectraNet. The windowless 16 square meter PSC Adelaide office was affectionately called "the cupboard" but it provided access to a large meeting room and secretarial services, and met our office needs for some time.

In February 2009, PSC established "Project Adelaide" with the goal of having PSC better service the business needs of ElectraNet and other Adelaide based organisations. In June 2009, Kevin Box was appointed as PSC's Australian Telecommunications Manager and with his wife Ruth, relocated from New

Zealand to live in Adelaide. Adelaide is the Telecommunications and IT Networking base for PSC Australia with Victor Tan also based here in the role of Network and Security Consultant. Victor has Cisco CCNP, CCIE (Security) and CISSP certification, and has eight years design, implementation and support experience of IP networks and related technologies.

Following an extensive search for suitable office space and then major refurbishment works using South Australian based suppliers; PSC has now established a new 110 square meter office in Adelaide located on the corner of Hutt and Flinders Streets, a short walk from ElectraNet's

office. The new Adelaide office has been designed to provide quality office accommodation for 9 team members and includes a meeting room and lunch room facilities.

In September 2009, PSC moved into the new Adelaide office and celebrated the opening with a function attended by many of our clients. By arrangement with ElectraNet, the EMP Upgrade Project team including PSC's Kevin Hart and Jack Homeyer will work from the new office for the duration of this important project and other project teams will also be based in the new facility as required.

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