



Specialist Consultants
to the Electricity Industry

PSC NEWS

News and Views from the team at PSC

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PSC launches new service

PSC STRATEGY

PSC is pleased to announce the release of a new service. PSC Strategy is a premium consulting service ideal for organisational leaders seeking outside expertise in such areas as asset strategies, strategic project reviews and business case development.

PSC Strategy has been born from PSC's excellence in each of its key business areas: Control & Market Systems, IT & Telecommunications, Electrical Engineering, HVDC, and Transmission lines.

Warwick Glendenning, PSC Group CEO, describes the evolution:

'For some time we have been focused on creating a high performance team in each of our core business areas. This means we have accumulated a lot of specialist industry expertise. This has seen an increasing demand from our clients for strategic advice that leverages this expertise and makes the most of our experience.'

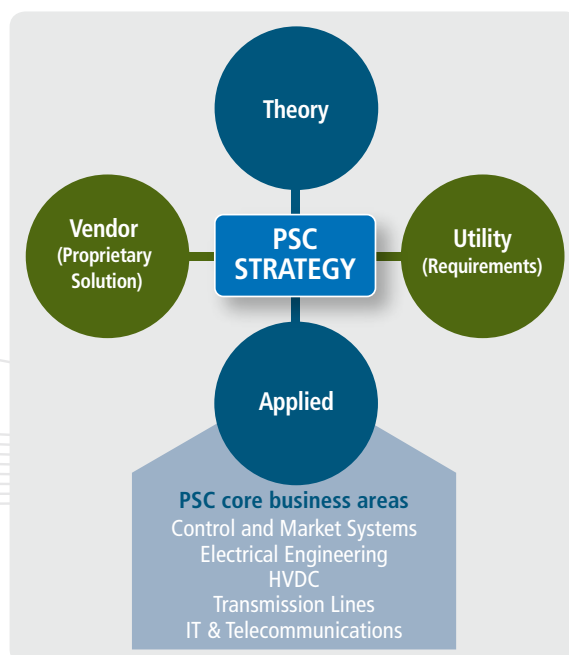
'In 2010 we began to explore how we might resource a new service area that could capitalise on this market requirement. As a result, PSC Strategy is now available as part of PSC's offering and we are excited about this new capability.'

PSC Strategy's services are delivered by PSC's senior people from across each of its core business areas. These people bring practical expertise combined with an intimate understanding of a utility's requirements.

Warwick comments further:

'We know from practical experience that organisational leaders require senior people to work on their strategic projects. They need people who have worked at the coal face and have experienced the difficulties associated with projects, but still offer the seniority and expertise to understand the strategic level.'

These things, coupled with PSC's stated position as a vendor-neutral consulting company, means PSC Strategy clients are sure to find PSC's recommendations are carefully balanced to add real value to their business.



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PSC's Electrical Engineering group is a team of specialists passionate about the electricity industry and committed to excellence. This group has in the past focussed predominantly on power system studies and network analysis. We have developed a strong reputation with our clients in this regard with long standing client relationships in both Australia and New Zealand and developing in the USA. PSC continues to deliver a high quality service in this area.

However PSC also has strong technical knowledge and experience in HVDC and AC transmission and distribution systems, and with increasing demand, PSC continues to develop and enhance its capability to provide engineering consulting services in both general and specialist aspects of power systems electrical engineering.

Recently we have enhanced our capability within the Electrical Engineering service area in both Australia and New Zealand and undertaken a number of projects where clients have sought technical support in areas such as the scoping and cost estimation of transmission and distribution projects and detailed technical studies, including harmonic, switching, transformer energisation and insulation coordination studies.

Transformers are an area that PSC can demonstrate very specialist knowledge and provide excellent technical support to clients from specification through testing, installation and commissioning phases. We have staff with recent experience on specialist topics such as transformer specification, installation, testing and commissioning, and also for modelling the cyclic loading of transformers.

In addition to our main engineering offices in Brisbane and Wellington, we have increased our engineering staff located in our Perth office and a new office in Christchurch. PSC offers stability and remains committed to ensuring quality and reliability in the electricity industry where we continue to make our mark as industry leaders.

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PSC Strategy team member participating in Smart Grid Industry Workforce Development

Randy Berry, Vice President of PSC USA, has served on the Gridwise Alliance Board of Directors since 2009. One of his first initiatives on the Board was to form the Education and Workforce Workgroup to provide a forum for industry and academic members of the alliance.

The workgroup identifies education and workforce issues and opportunities involving the smart grid. Randy serves as the board liaison, providing strategic direction and executive oversight to the group. This workgroup recently released a report on Smart Grid Trends

http://www.gridwise.org/documents/GWA_2011_SG_Workforce_Trends_Overview.pdf.

The following statement was released by the GridWise Alliance regarding the report:

"This report takes the industry's first comprehensive look at not only how the expansion of the smart grid will strengthen the American economy but also the critical steps America must take to ensure its workforce is prepared to maximize this new technology," said GridWise Alliance Board Liaison for the Education and

Workforce Work Group, Randy Berry. "All levels of the electrical energy industry chain can learn from this report on how best to reform their efforts and equip their employees with new skills needed to achieve success with the transformed grid."

PSC is delivering a Plant Information Management System for Stanwell Corporation Limited, Queensland Australia

Following a competitive tender process, PSC commenced work in October 2010 on the implementation of a Plant Information Management System (PIMS) solution for Stanwell Corporation Limited, a major electricity generation business located in Queensland, Australia.

The Stanwell PIMS solution is being delivered on the highly regarded OSIsoft PI software platform to:

- collect data from the plant control systems at:
 - Stanwell Power Station;
 - Barron Gorge Hydro;
 - Kareeya Hydro; and
 - Mackay Gas Turbine;
- enable analysis and reports to be prepared on data stored by various means;
- interface PIMS data to a number of Stanwell's other operational and business systems; and
- replace parts of an existing system which provides for remote operations of some stations.

As the PIMS project nears completion, excellent progress has been made with all the power station operational data now being captured into PIMS. With the assistance and support of the Stanwell

PIMS project team, PSC is completing the development of advanced analysis tools, business systems interfaces and facilities to develop user specific reports.



PSC Scholarship for 2011

PSC is pleased to continue its association with the University of Canterbury, School of Engineering with the annual award of the PSC Scholarship.

The PSC Scholarship was established in 2004 as a co-operation between PSC and the Electric Power Engineering Centre (EPECentre) to promote and support the education of power engineers and the study of power engineering as a field of excellence in New Zealand. The scholarship is open to students in their 3rd professional year, who are focusing on power engineering subjects and have demonstrated excellence in their studies.

It was no exception this year that the candidates were of an extremely high

calibre and all demonstrated their unique characteristics and passion for this industry in a variety of ways. The successful candidate this year was selected from a very strong field of submissions and our congratulations go to Errol Bebbington who has shown exceptional academic performance combined with a strong focus on pursuing a career in the power industry. We sincerely wish Errol and all the candidates every success in their pursuit of this extremely important and rewarding career.



PSC Scholarship recipient Errol Bebbington.

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.

Keehan Chan

Keehan Chan has joined PSC Australia as a Principal Electrical Engineer and has extensive knowledge in electrical power engineering covering many different industries including electrical utilities, the oil and gas industry, large industrial plants, petrochemical and power generation plants, transmission systems, regulatory agencies and academic institutions.

His areas of expertise include power system analysis, transmission and distribution planning, management and implementation of transmission & distribution projects, and the preparation of technical specifications and tender documents. Keehan has a PhD in Power Engineering and will be working for the PSC electrical engineering group based in our Perth office.



Jack Kelly

Jack Kelly has joined PSC USA in Calgary, Alberta, Canada as a Senior EMS Analyst. He brings with him over 30 years of industry experience implementing, supporting, and managing EMS systems and staff on the customer side. His skills include SCADA telecom, advanced applications and leadership in 24 x 7 critical operations along with direct experience in both Alstom and ABB systems. Jack's first assignment with PSC is assisting AltaLink, a transmission provider in Calgary with their EMS upgrade project. Prior to joining PSC, Jack held a senior position with the Alberta Electric System Operator in Calgary.



Michael Riecken

Michael Riecken has joined PSC Australia as an IT Consultant (J2EE, Java and Oracle). He has nearly 20 years of experience in Information Technology. He most recently came from Siemens Energy where he was a staff architect and architecture trainer, and has a wide variety of industry and technology experience. Michael has published numerous technical articles, co-authored one book, has spoken at many regional and international conferences, and has taught computer science at a tertiary level. Michael will be based in our Perth office working on projects for our Western Australian clients.



Brian Kurbel

Brian Kurbel has recently joined PSC USA in Calgary, Alberta, Canada as an EMS Analyst. Brian is a recent graduate of the University of Alberta in Calgary, Canada with degrees in Electrical Engineering, Mathematics, and a minor in Physics. While in university, he also gained work experience with SCADA and engineering firms in the industry. His experience includes SCADA systems and protocols, software development, and electrical engineering as well as first and second place finishes in two engineering contests. Brian starts out with PSC assisting on the AltaLink EMS upgrade in Calgary.



Victor Francisco

Victor Francisco has joined PSC New Zealand as a Senior Electrical Engineer and is proficient in the theory and concepts for electricity markets such as optimization and power system analysis. He is also experienced in market design, system studies, software development and working with market clearing engines. He has held management positions with the Philippine Electricity Market Corporation where he had key roles for several major projects. Victor holds a Master of Science degree in Electrical Engineering and will be based in the PSC office in Wellington.



Erin Olander

Erin Olander has joined PSC USA as an EMS Engineer. Erin worked previously in the defense industry as a software developer for real time missile defense simulations. She graduated from Auburn University with a Bachelors degree in Mathematics and is currently working on a Masters degree in Computer Science at the University of Alabama in Huntsville. Erin will be working at Southern Company in Birmingham, Alabama.

