



## OPERATIONAL TECHNOLOGIES

# We help you optimize grid operations, improve safety and reduce costs

*We help our clients optimize grid operations, improve safety and reduce costs by advancing and supporting the use of leading-edge transmission and distribution network monitoring and control architecture.*

## We are collaborative problem solvers

We understand that much of your time and energy is absorbed by day-to-day operations, which leaves you little time for big-picture analysis and improvement.

We are here for you with expert advice and real-world solutions. PSC's senior engineers perform unbiased assessments and independent reviews of your current operations and your emerging requirements and objectively assess technology platforms to help keep the lights on.

Whether you need assistance with telecommunications, have IT or network issues, security concerns or would like to increase automation, our consultants are industry leaders who trouble-shoot a far-reaching collection of modern-day electricity difficulties for some of the biggest power companies in the world. We bring the knowledge gained and the lessons learned to you to benefit your organization and your customers.

## We deliver results

With over two decades of in-depth electricity experience, we save utilities and energy companies time and money. Our senior advisors routinely improve operational systems by availing and integrating state-of-the-art network monitoring and control technologies for power companies around the globe, addressing all types of common and uncommon issues in the process.

We appreciate the epic challenges you are facing and are well versed in all aspects of grid operations and we custom tailor applications to suit your needs.

## Operational Technologies highlights

- We provide objective, customized advice to help you meet deadlines and budgets, and we are here for you when you need us, with strategically positioned teams that can be deployed immediately.
- PSC experts are vendor neutral and work independently with all global suppliers in your orbit to facilitate the best solutions for your organization.
- We bring you unparalleled experience and expertise in optimizing grid operations, project management, delivery and integration.
- Our senior advisors are dedicated to your success and contribute thorough requirement analysis, solid technical know-how and independent advice for owners and engineers. We offer operations technology support, testing, documentation and training.

# Our capabilities

## SCADA/EMS/DMS

- Project management
- Strategic planning and technical investigations
- Detailed system and application designs
- Systems administration, operational on-site support, database development and support, display and point commissioning
- ADMS modeling and power engineering support
- Custom applications and product interface modifications
- Data historian system design, implementation, administration and support
- Complex system integration and configuration
- Technical and operator training
- Documentation development
- Vendor management and client advocacy
- Transmission network modeling
- Configuration and customization of dispatcher training simulator
- OT system testing and tracking by HPQC and others

- Operational support of PMUs
- Advanced DMS application configuration
- Meter Data Management System integration
- Battery storage integration
- PV integration
- Distribution network analysis

## Substation Automation

- Substation HMI, RTU and substation management systems
- Detailed design, configuration and implementation
- Demandside management systems
- Substation server design

## Generation Automation

- Generation automation and governor control
- PLC programming and integration
- Generator Management Systems (GMS)
- AGC tuning
- Load Forecasting configuration
- Economic Dispatch configuration
- Unit Commitment configuration

## Telecommunications

- Strategic planning and technology investigations

- Concept and detailed design
- Construction, installation and commissioning

## IT Networking and Security

- Data network strategy and asset management
- Strategic planning and technical reviews
- Infrastructure architecture and design
- Secure network and server design
- Virtualization and storage design
- Security reviews and network audits
- IP data network, telephony and VoIP support
- Cyber Security and Cyber Security uplift programs
- Operations network to Corporate network secure design and implementation
- NERC CIP
- Data center design and implementation
- Backup control center design and implementation

## How we help you

PSC's internationally recognized electricity experts help the energy and utility industries safely and cost-effectively plan for a radically different future, ensuring a smooth transition to clean, renewable and profitable energy.

We are dedicated to the success of our customers. Typical issues we address are telecommunications, IT networking and security, substation and generation automation, and developing and maintaining a strategic plan for SCADA, EMS and DMS.

We are here for you when you need us. Our teams are stationed in strategic locales to allow for rapid deployment, from New Zealand, Australia, and Asia Pacific to Europe, Canada and North America.

## We are dedicated to your success

Our passion is to help you reach your goals. We are laser-focused on solving your specific problems and we are uniquely qualified for the job. With every project we have successfully completed over the last two-and-a-half decades, we have grown our pool of knowledge and expertise by conquering exactly the type of challenges you are now facing. We are ready to hit the ground running and give you innovative strategies and the means to make a difference by helping power a more sustainable world.



**Specialist Consultants  
to the Electricity Industry**

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