



## DISTRIBUTED ENERGY RESOURCES

# We help you plan, design, operate and optimize your DERs

*We help you meet the world's changing electricity demands with the efficient use of Distributed Energy Resources (DER). Our expert consultants advise in planning, design, operation and optimization of DER so you can extract maximum benefit.*

## Helping you harness DER's potential

DER asset management presents unique challenges and enormous opportunities. Integrating the diverse array of renewable energy resources adds new dimensions to your task of reliably responding to increasing peak demands.

Whether you are a distribution network operator, large industrial or a property developer, smart and cost-effective management of DER is imperative.

PSC's experienced senior engineers are ready to help you transform your systems to incorporate renewable energies seamlessly. We provide strategic guidance on solution architecture roadmaps and planning.

Over two-and-a-half decades of supporting clients worldwide have afforded us comprehensive knowledge of system operation and where DER fits. We counsel you on market-based DER optimization, demand response, load management, micro and islanded grids, battery storage integration and DER hosting and networks.

## DER highlights

- We provide practical real-life solutions for energy generation (solar PV, wind, fuel cell, co-gen, diesel), energy storage and efficiency, electric vehicles, demand response, load management, microgrids and more.
- Positioned strategically around the globe, we are ready to deploy at a moment's notice.
- Our senior consultants have been amassing knowledge and experience worldwide for over 25 years and are putting those resources at your disposal to empower you to thrive.
- We also offer strategic guidance on solution architecture, road maps and planning.
- We have broad product know-how and can help with our vendor management capabilities.
- We have extensive power industry connections through standards and industry bodies such as MESA, IEEE and CIGRE.

## Our capabilities

PSC DER, global knowledge, experience and full-spectrum capabilities.

- Telecommunications, IT, networking and cybersecurity
- SCADA/DMS/EMS
- Network planning at distribution, sub-transmission and transmission levels
- Vendor management
- Distribution market systems
- DER control space
- DER system studies
- PV connections
- Metering
- Energy storage
- Distribution network analysis
- Active distribution network management
- Demand response
- Standards
- Microgrids
- Regulatory processes
- Research

## How we help you

Electricity companies find themselves in a new world of rapidly advancing technology, aging infrastructure and personnel, as well as increasing customer and regulatory demands.

We understand what you are dealing with. PSC engineers work with clients every day who are facing a wide array of technical challenges and help them skillfully plan, design, operate and optimize their DER. This gives us hands-on independent experience in just about any problem you are facing.

Supporting such a wide variety of electricity organizations in so many different countries teaches us targeted lessons that will greatly benefit you. We draw on a solid and diverse international problem-solving crew so we can hit the ground running when you need us.

## We deliver results

Our practical independent experience as electricity experts brings new life to your efforts of expanding the performance of DER and take full advantage of all they can offer. We are globally recognized industry leaders who are passionate about helping our clients power a more sustainable world.

Our global DER deliveries include:

- Extensive DMS/EMS/SCADA projects
- Extensive DER related telecommunications and networking projects
- Solar PV connections and DER system studies and controls
- PV/Storage integration
- CVR and PV penetration studies
- Distribution network analysis
- Review of DER efforts in California, a world leader in the DER space



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