



## POWER NETWORKS

# We help you plan and evaluate with confidence

*We help our clients plan and evaluate with confidence relying on our extensive experience in modeling, analyzing and planning transmission and distribution networks.*

## We are Power Network specialists

This new era of emerging renewable energies presents the electricity industry with unique challenges. To conquer these obstacles you need the best council ready at a moment's notice, and PSC is here to deliver just that. We help with design, management, upgrade, troubleshooting and operation of power networks.

Our thought leaders solve a wide range of power network problems for clients worldwide every day. This breadth and depth of experience equip us with an abundance of timely tools and practical applications. We avail those to you to make your job easier.

Our senior PSC engineers have you covered whether you need feasibility and interconnection studies, network and station planning, operations and market support or detailed engineering studies. We provide distribution network analysis, generator testing, modeling, and compliance and much more.

We are trusted by a global client roster and bring practical hands-on experience to your organization to help you effortlessly meet your performance goals.

## We deliver results

PSC has a proven track record in solving global power network issues. We protect your reputation and investments by delivering dynamic and cost-effective power network solutions. We provide outage management modeling, conduct impact studies, and seamlessly integrate renewable energy into power networks. Our seasoned PSC consultants understand what you are dealing with and support you with state-of-the-art technology and unparalleled expertise to keep things running efficiently.

## Power Networks highlights

- We offer our unique system study expertise to help solve the thorniest challenges.
- We have a reputation for delivering excellence on challenging 'beyond the norm' projects.
- We are global thought leaders with independent in-depth industry experience and the know-how to address your most difficult power network concerns.
- We are a global, rapidly deployable team to be there when you need us.
- Our strong commitment to enduring client partnerships is demonstrated by our 25+ years of power network experience based on our expert, objective advice.

## Our capabilities

### Power System studies

- Utilizing PSS/E, DigSILENT and PSCAD
- Dynamic and transient studies
- Network planning studies
- Generator connection studies
- Studies to support outage management and market operations
- Insulation coordination studies
- Arc flash studies
- Earthing and lightning protection
- Distribution Network Analysis
- Renewable integration studies
- Conservation Voltage Reduction studies

### HV substations

- Feasibility studies and technical investigations
- Concept design

- Primary systems design
- Secondary systems design
- Design management

### Transmission Lines

- Transmission line modeling, engineering analysis and design
- Foundation design and assessment
- Transmission tower condition assessment
- Transmission line design tools (PLS-CADD and TOWER)
- Aerial laser surveys (LiDAR)
- Project management

### Asset Management

- Independent Engineer roles
- Regulatory support
- O&M Advice

## We are there when you need us

On any power network assignment, anywhere in the world, PSC teams collaborate as centers of excellence for systems studies and transmission lines.

We offer an extensive global network of locally-based, yet highly mobile PSC consultants, who bring an in depth, independent understanding of a wide variety of processes and product offerings.

## How we help you

We know that you encounter daily demands, such as integrating accelerating innovations in new energies or strengthening aging infrastructure. Our team of experts routinely addresses these problems for energy companies worldwide and provides you with a considerable assortment of solutions that help you excel in this new era.

We help you power a more sustainable world.



**Specialist Consultants  
to the Electricity Industry**

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