

# ENERGY STORAGE

THE POWER ADVANTAGE



CONTACT

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POWER Engineers is a nationally ranked consulting and engineering firm supporting the generation, transmission and distribution of electric power. Our team provides a full range of services for energy storage projects, from studies and modeling to grid analysis, interconnection design and microgrid engineering. Combining multi-discipline strengths, we offer industry-leading technical expertise to help you navigate diverse and complex challenges.

## ENERGY STORAGE SERVICES

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Owner's engineering

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System analysis & modeling

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Technology screening

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Site selection assistance

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Environmental studies

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Project permitting

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Interconnect studies

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Feasibility studies

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System impact studies

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Detailed design

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Protection & control

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SCADA design

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Construction management

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Testing & commissioning

## BENEFITS

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### PROVEN OWNER'S ENGINEER CAPABILITIES

POWER has provided Owner's Engineer services for energy storage projects since 1994. We rely on experienced, dedicated project managers and engineers to guide your project, providing high quality and cost-effective solutions.

### YOU GAIN:

An industry-leading team with the resources and expertise to meet tight deadlines, address unexpected complications and keep projects on track.

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**CASE IN POINT:** From our first battery energy storage system (BESS) with Golden Valley Electric, to our support for Imperial Irrigation District's first BESS and the fast-track 37.5 MW Escondido projects, POWER's team has a proven track record in supporting high visibility energy storage projects.



*IID's 30 MW (20 MWh) BESS in El Centro, California*

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## SOPHISTICATED ELECTRICAL STUDIES & MODELING

Studies, modeling and site selection are key components to any successful energy storage project. POWER's SCADA and Analytical Services team provides technical analysis, system impact studies, simulations and design recommendations to help you develop and test your system for interconnection performance and overall reliability.

### YOU GAIN:

A nation-wide team of experts ready to assist you at any phase of an energy storage project.

**CASE IN POINT:** We've supported major projects for the Imperial Irrigation District, Hawaiian Electric, National Grid, Xtreme Power and others. Our models have successfully helped multiple project stakeholders evaluate the potential effects of energy storage systems before making important investments.

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## EXPERIENCED DETAILED ENGINEERING

From electrical interconnection to civil/structural and mechanical design, POWER provides full detailed design and engineering for energy storage projects. Our team also assists in conceptual design, construction management, commissioning and testing to bring your project online.

### YOU GAIN:

Confidence that your project design will be efficient, cost-effective and correct the first time.

**CASE IN POINT:** POWER supported AltaGas's 20 MW (80 MWh) Pomona BESS by providing detailed electrical interconnection design, as well as architectural, structural, mechanical and fire protection system design for the battery enclosure. We worked alongside the project's EPC contractor to successfully bring this fast-track project online to meet its crucial energization date.







## WHY POWER?

Today's grid requires specialized infrastructure to support critical functions and maintain reliability. As storage systems become a major component in energy delivery and management, POWER's flexible approach provides customized solutions to meet your specific needs for energy storage projects.

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**PROVEN OWNER'S ENGINEER CAPABILITIES**

2

**SOPHISTICATED ELECTRICAL STUDIES & MODELING**

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**EXPERIENCED DETAILED ENGINEERING**