ZGLOBAL
Power Engineering & Energy Solutions

Visit us online at www.zglobal.biz

Power Engineering | Strategic Planning | Market Analytics | Distributed Generation | Electric Operations

Leading Energy Solutions in a Competitive Marketplace

ZGlobal engineering assesses the impacts of financial objectives to existing and planned future projects. Our assessments expose the technical and financial hurdles and provide a clear picture to aid the decision making process. ZGlobal's team of engineers are entrusted by our clients to provide honest, reliable and technical expertise to ensure a project meets the specifications and deliver as designed.

We take an active role by teaming with the owner in the planning, financing and implementation stages as required. The expertise and depth of industry knowledge make our engineers well positioned to advise our clients on their projects. Additionally, we provide third party engineering review and assessment review for due diligence efforts and use industry leading technology and best practices to ensure our clients get the most from our services.

Benefits to Our Clients Include:

- Provide expert interconnection services
- In-house Power Flow, Dynamic Voltage & Stability Analysis (PSLF & PSS/E) expertise
- Provide third party engineering/ owner engineering representation
- Full service solution from planning to full operations
- Perform independent analysis for project financing
- Close proximity to, and strong relationships with CAISO

Planning & Studies

Transmission & Distribution Planning

Site Assessments

Power Flow Analysis & Feasibility Studies

System Impact & Facility Studies

Renewable Generation & Energy Storage Integration

Regulatory Assessments

Generation Interconnection Support

Curtailment & Deliverability Analysis

Design & Analysis

Preliminary & Detail Design & Engineering

Site Plans & Elevation Layouts

Interconnection Facility Design & Cost Estimates

Equipment Specifications & Costs

Independent Engineering Analysis

For more information regarding our services contact us:

604 Sutter Street, Suite 250 | Folsom, CA 95630
O: 916.985.9461 | E: info@zglobal.biz

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Providing a Clear Picture of Market Opportunities

ZGlobal experts have many years of experience in the energy industry, and have performed a full range of energy-related services. We continuously strive to enhance our services to comply with new standards and expectations of the regulators. We team with our clients to continuously prepare for an audit and report current industry activities and trends that provide confidence within your business.

Regulatory & Rates

Resource Planning

Expert Witness Services

Tariff Consistency

FERC Transmission Rates Analysis

Transmission Risk Assessment

State & Federal Regulatory Services

Market Advisory Services

Risk Performance Management

Contract Negotiations

Reliability & Compliance

FERC/NERC Compliance

Balancing Authority/Grid Integration

Enterprise Energy Management

ISO Market Assessments

Benefits to Our Clients Include:

- Full service firm with access to industry leading experts
- Provide detailed analytics and strategy development
- Built-in compliance standards by applying processes consistent with NERC standards & industry protocols
- Assist clients in understanding potential costs savings
- Full engineering staff to perform independent analysis
- Development & implementation of strategies designed to reduce our clients cost and risk

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Adding Value to Your Assets

ZGlobal's analytics team has managed and valuated asset portfolios for decades, which put us in a unique position to quantify the value of our clients' assets and translate the data for our clients' investment decisions. We recognize that developing, acquiring or selling capital assets is a highly complicated undertaking. We use highly proven technologies combined with in-house customized analytics to provide our clients with solid information to evaluate their business cases. We work with our clients to understand the various potential scenarios and provide them an array of viable options that balance costs and potential revenue with risk appetite. We provide analytical services at each stage of an asset's life cycle. Services range from assessing future value of assets via cost modeling to developing market strategies and evaluating benefits of current portfolios. ZGlobal's analytics team has the industry experience and knowledge to evaluate our clients' assets from inception to settlements in energy and capacity markets.

Asset Valuation

Production Cost & Revenue Modeling Forecasting

Cost Benefit Analysis

Acquisition Valuation & Analytics

Energy, Ancillary Services & Capacity Valuation

Forecasting & Analytics

LMP Forecasts & Market Assessments

Congestion Market Assessments & Optimization

Infrastructure Utilization and Constraints

ISO Market Assessments

Energy Settlements

Front, Middle & Back Office Integration

Shadow Settlements

Settlement Verifications & Education

Cost Allocations

Benefits to Our Clients Include:

- Provide grid reliability to commercial value
- Determine the life-cycle cost of an asset
- Assist clients in understanding their expected revenues
- Provide independent analysis of project benefits for ratepayers
- Perform comprehensive studies of economic and reliability benefits
- Help determine potential energy cost savings
- Provide detailed analytics and strategy development

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Full Service Solutions for Your Assets

ZGlobal offers a start-to-finish solution for our clients looking to develop an asset, from pre to post development and anywhere in between. Our team offers a broad range of experience with Utilities, Counties and State & Federal agencies. By integrating our experienced staff, utilizing our business relationships and applying our technical knowledge, we provide a fully integrated service to our clients. We apply our cutting-edge advisory services related to the development of an asset and strategically align our staff of engineers, market analysts and industry experts.

Benefits to Our Clients Include:

- Offer full service solutions from planning to full operations
- Provide detailed engineering for each project phase
- Assist clients in understanding their expected revenues
- Provide comprehensive studies of economic and reliability benefits
- Conduct detailed analytics and strategy development
- Offer analysis for project finance
- Perform independent analysis for project financing

We've built positive relationships with State and Federal agencies, local public power and irrigation districts, regulated and non-regulated utilities, water agencies, generation owners and developers, and industry vendors to ensure our clients receive the best service possible

Our Distributed Generation services include planning, engineering, feasibility, cost and risk benefit, procurement, engineering, permitting, document control and procedure development based on industry best practices and operating procedures. Our services are tailored to assist our clients to maximize their performance and returns from their assets. We offer a complete, integrated solution, ultimately saving our clients time and costs.

Project Planning & Implementation

Site Assessments

Project Feasibility Studies

Project Finance Analysis

Interconnection/Utility Interface

Renewable Resource Assessments

Project Management

Environmental Studies & Permitting

Owner's Engineering

Asset Management

EPC Contract Management

Operations & Maintenance Services

Energy Production Monitoring

Power Purchase Agreements & Contracts Review

Owner's Representative

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Experience You Can Rely On

Our services range from Energy Scheduling, Reliability Services, Portfolio and Risk Management and Enterprise Energy Management. We offer a California ISO certified Scheduling Coordinator function via our operations center, which is directed and trained by the pioneers of the California ISO. Our operations are secure and staffed by a team headed by NERC certified personnel 24 hours a day, seven days a week. We provide value to our clients by offering an integrated operations service that leverages the insight gained by our team's previous industry experience. We utilize and provide comprehensive business experience and tools designed to support scheduling and operational needs. Our services can be custom designed to satisfy the objectives of our clients.

Benefits to Our Clients Include:

- 24x7 operations support.
- Stable costs and time savings by providing scheduling services at a set monthly cost
- Built-in compliance by applying processes consistent with NERC standards and California ISO protocols
- Development and implementation of strategies designed to reduce cost and risk
- Access to industry-leading experts so our clients can realize inherent value of their assets
- Utilization of customized software tailored to meet client needs

Energy Scheduling

24x7 Operations

CRR Allocations

e-Tagging

Outage Coordination

Forecast Solar Generation (DA/HA)

Bilateral Transactions

OATT Schedules

Settlements & Billing

Dynamic & EIM Scheduling

Portfolio & Risk Management

Portfolio Modeling & Optimization

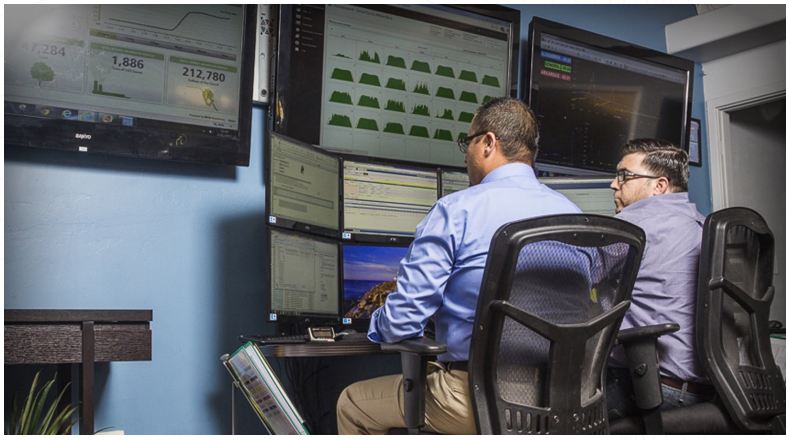
Financial Settlements

Risk Assessment & Policy Review

Operating Procedure Development

Risk Policy Development & Implementation

Power Purchase Agreement Verification & Optimization



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