

Energy storage is transforming power markets, enabling both resilience and flexibility in an ever-changing grid.
 Solas Energy® provides independent expertise in grid-scale storage projects, helping clients navigate complexity with clarity, innovation, and trusted strategy - from feasibility and modeling to permitting, development, and execution.



Energy Storage Modeling



Regulatory Policy Development



Proven Utility-Scale Project Expertise

Energy Storage Modeling

- Software expertise: Fractal Model, Fractal EMS, Fractal Optimizer, NREL's System Advisor Model (SAM™), and HOMER.
- Tailored techno-economic modeling aligned with market strategies: market assessments, revenue stacking across arbitrage, capacity, and ancillary services, contracting strategy support, levelized cost of storage (LCOS), full financial modeling, and technology review.
- Feasibility and dispatch reports.
- Energy storage greenhouse gas life cycle, and operational impacts and benefits.

Regulatory and Permitting Clarity

- Policy, siting analysis, regulatory jurisdictional review, environmental assessments, and interconnection strategy for storage deployment.
- Emergency response and safety planning, including fire risk mitigation, thermal runaway prevention, and compliance with safety standards.
- In-front, on-grid, and behind-the-meter battery energy storage system (BESS) regulatory support.

Development & Market Growth Support

- Technology and feasibility reviews for battery energy storage, compressed air, pumped hydro, flywheels, and thermal storage.
- Energy storage forecasting to accommodate integration into a modernized grid.
- Site optimization and design for project use cases.
- Utility grid decarbonization analysis for implementing energy storage.
- Integration of energy storage with renewable energy technologies, including solar and wind.
- Technical due diligence services for developers, investors, and lenders, de-risking project assumptions and validating project economics.

Project Management & Owner's Engineering Services

- Independent project management support from concept through commissioning.
- Procurement oversight and SCADA/controls integration support.
- End-to-end engineering advisory: RFP development, specification of equipment, warranty analysis, contract and metering plan review.
- Owner's engineering services to safeguard project delivery and performance.
- Offtake contract management during commissioning.

Commercial EPC Bid Management

- Power Purchase Agreement review and support.
- Ancillary Support Services Agreement review and support.

Contact Us Today to Learn More

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***From volatility
to opportunity:
storage that
powers growth.***

Innovative. Comprehensive. Trusted.

