



Price the Tail. Bid the Curve.

Battery revenue in ERCOT is not earned on the average day. It is concentrated in scarcity hours, price spikes, and the spread between day-ahead and real time. SLS forecasts the full distribution of prices, values every megawatt-hour of state of charge against it, and turns that value into the offer curves you actually submit: energy and ancillary services, day-ahead and real-time, every day.

SERVICES

Day-Ahead Bid Optimization

A stochastic program whose decision variables are the bid curves themselves, fed by fat-tailed price scenarios and a state-of-charge value curve computed by backward induction. Energy and ancillary services are co-optimized, not bolted together. Offer curves are ready before the day-ahead deadline, with a full audit trail of why each segment is priced where it is.

Probabilistic Price Forecasting

A point forecast cannot price a battery, because the money is in the tails. We forecast calibrated distributions of day-ahead and real-time prices with spikes modeled explicitly, and generate scenario paths that preserve the temporal structure arbitrage depends on. Calibration is verified continuously: when we say P90, prices exceed it ten percent of the time.

Real-Time Re-Optimization

The day-ahead award is a position, not a plan. A rolling-horizon engine re-forecasts and re-optimizes around the frozen day-ahead book as conditions change, trading deviations when the real-time price justifies them and protecting state of charge when it does not, always within your physical limits, cycling budget, and ancillary commitments.

Advisory & Revenue Audits

Not ready for an autobidder? Start with an audit: a walk-forward backtest of your battery's realized revenue against what a disciplined strategy would have captured, using only information available at each decision time. Attribution separates forecast misses from execution misses, so you see exactly where revenue was left on the table.

HOW IT WORKS

1

Forecast the Distribution

Calibrated quantiles of DA and RT prices, with an explicit spike model and coherent whole-day scenario paths. Point-in-time discipline throughout.

2

Value Stored Energy

Backward induction yields the marginal value of energy at every hour and state of charge: the object every decision is derived from.

3

Construct the Offers

Compliant offer curves for energy and ancillary services, with risk rules and physical limits enforced as constraints, refreshed as the day unfolds.

4

Settle & Learn

Every decision attributed after settlement: forecast versus execution, strategy versus benchmarks. Recalibration is continuous.

WHY SLS

ERCOT-Native

Two-settlement mechanics, scarcity pricing, the full ancillary stack, and a point-in-time ERCOT data archive from day one. Market-agnostic core underneath.

Storage-First

State of charge, cycling cost, and ancillary commitments are first-class objects in the optimization, not features of another product.

Your Position, Your Control

Software and services on your side of the market, not your counterparty. Transparent fees, full curve visibility, human veto whenever you want one.

Honestly Measured

No uplift theater and no perfect-foresight baselines. Walk-forward backtests on decision-time information, verifiable against published benchmarks.