

DREW GRAY

POWER TRADER & MARKET STRATEGIST

Bentonville, AR | [Phone] | [Email] | [LinkedIn]

Grid Physics | Algorithmic Trading | Congestion Analysis

Accomplished Energy Trader and Electrical Engineer with a unique “glass box” understanding of US power markets. Leverages 15+ years of experience designing ISO market clearing engines (SCED/SCUC) to identify pricing inefficiencies and execute high-value trading strategies. Proven success managing a 2.5GWh BESS portfolio to \$100M+ in annual revenue. Expert in bridging the gap between grid topology, nodal constraints, and financial trading strategies across CAISO, ERCOT, and PJM.

TRADING & TECHNICAL COMPETENCIES

Markets: CAISO, ERCOT, PJM, SPP, MISO, ISO-NE, NYISO

Trading Strategies: FTRs/CRRs, Virtuals, Energy Arbitrage, Structured Swaps, Basis Hedging (ICE/Nodal)

Quantitative & Programming: Python, SQL, C#, C++, AIMMS, Java

Grid Systems Expertise: SCED (Security Constrained Economic Dispatch), SCUC (Unit Commitment), FERC 841/831 Compliance

PROFESSIONAL EXPERIENCE

REV RENEWABLES

Head of Trading, West

Managed commercial strategy and execution for a ~750MW / ~2.5GWh operating BESS portfolio in CAISO, generating ~\$100M in annual revenue.

Executed hedging strategies to manage basis risk and lock in volatility premiums, utilizing exchange-traded products on ICE and Nodal for both short and long-term positions.

Originated and negotiated structured energy swaps to optimize the risk profile of both contracted and merchant assets.

Directed forward-planning strategies, analyzing nodal congestion and transmission constraints to guide capital deployment in high-value locations across the US.

EDF RENEWABLES

Associate Director, Solar & Storage Product Mgmt.

Designed and managed algorithmic bidding strategies for energy storage assets, optimizing for ancillary services and energy arbitrage revenue.

Led market strategy for North American assets, ensuring commercial optimization within evolving ISO/RTO market rules.

Partnered with Power Origination and Capital Markets to value projects based on deep fundamental analysis of future grid conditions.

WALMART

Senior Manager II, Renewable Energy Origination

Led procurement of over 1 TWh of renewable energy via VPPAs and other structured instruments.

Coded in-house optimization tools for behind-the-meter assets, maximizing ROI across a 4,000+ site portfolio by analyzing tariff structures and load profiles.

Collaborated with Texas Retail Energy to refine risk management systems for wholesale market exposure across ERCOT, PJM, and NYISO.

GE GRID SOLUTIONS / ALSTOM GRID

Senior Market Systems Project Engineer

The “Edge”: Lead developer for the actual optimization software (SCED, SCUC) used by ISOs to clear the market. Deep knowledge of how constraints bind and set marginal prices.

Redesigned market management systems for SPP, MISO, PJM, and ISO-NE to comply with FERC orders, giving an insider view of market protocols.

Implemented grid optimization solutions that balance operational reliability with least-cost dispatch.

SOUTHWEST POWER POOL (SPP)

Senior Engineer

Key player in the design and testing of the Integrated Marketplace (Day-Ahead and Real-Time), ensuring the clearing engine produced mathematically feasible and optimal pricing.

Developed applications to visualize market results and diagnose pricing anomalies—skills directly transferable to identifying trading opportunities.

Bentonville, AR

08/2022 – 01/2026

Bentonville, AR

08/2020 – 08/2022

Bentonville, AR

05/2019 – 08/2020

Redmond, WA

06/2014 – 05/2019

Little Rock, AR

01/2008 – 05/2014

EDUCATION

University of Arkansas

Bachelor of Science in Electrical Engineering

Fayetteville, AR

December 2007