Modern Thermal Design

"Control Your Energy Destiny, or Someone Else Will."

UTILITY-SCALE BATTERY ENERGY STORAGE

EASTERN TEXAS BESS

Stable early cash flow. Long-term merchant upside.

The Eastern Texas BESS is a 150 MW / 300 MWh ERCOT-interconnected battery energy-storage facility designed for fast grid response, enhanced availability, and a revenue strategy that combines an early contracted floor with long-term merchant participation.

A Utility-Scale BESS Built for Performance and Revenue Resilience.

This **Eastern Texas BESS** is a two-hour, 150 MW / 300 MWh battery-storage project interconnected to the ERCOT market. Its revenue design provides a contracted early-life revenue floor through an auto-settled BESS revenue-swap structure, followed by fully merchant operations. The project retains market participation and dispatch rights, allowing it to earn ERCOT energy and ancillary-service revenues while preserving long-term merchant value.

WHY IT MATTERS

CONTRACTED REVENUE FLOOR

A seven-year auto-settled revenue swap is designed to provide early operating-period cash-flow stability.

FULL MERCHANT UPSIDE

The project earns ERCOT merchant revenues and transitions to fully merchant operations after the swap period.

FAST-RESPONSE POWER

The BESS is designed to deliver rapid response for energy and ancillary-service opportunities.

AVAILABILITY ENHANCED

A super-capacitor power layer is proposed to improve availability and reduce lithium-ion stress.

HOW THE EASTERN TEXAS BESS WILL WORK

Store Energy. Respond Fast. Capture Value.

The system stores energy when market conditions support charging, then responds rapidly to ERCOT energy and ancillary-service opportunities. A super-capacitor layer is designed to handle high-frequency, short-duration power events and protect the lithium-ion system.

01. CHARGE

ERCOT Market

Charge during favorable energy-market conditions.

02. STORE

150 MW / 300 MWh BESS

Battery modules retain energy for scheduled or market-responsive dispatch.

03. AUGMENT

15 MW Super-Caps

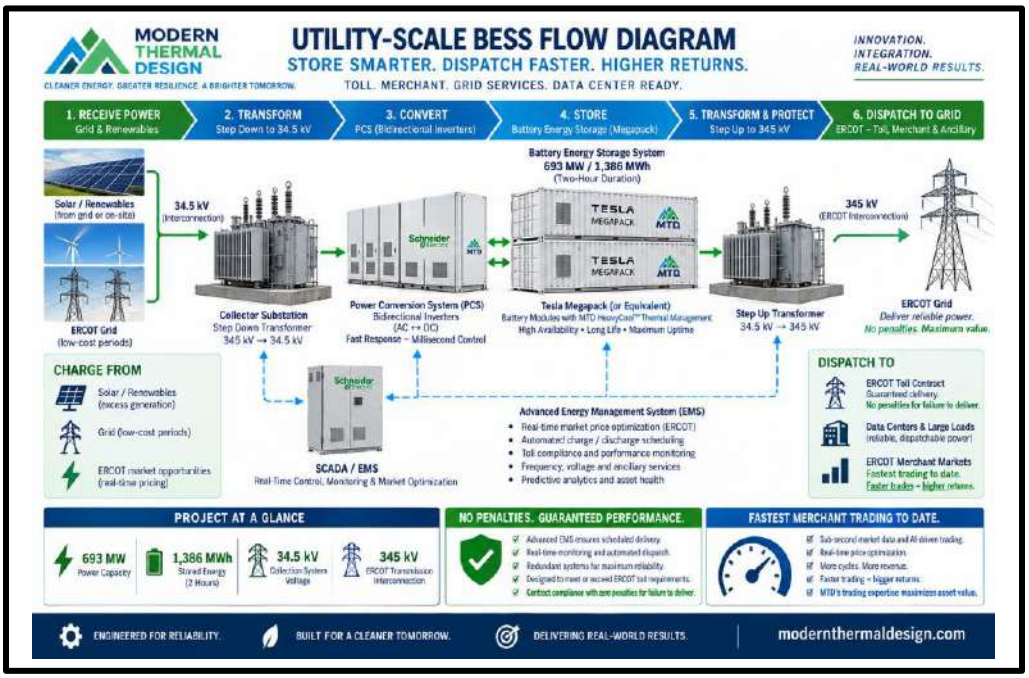
Super-capacitors support fast, high-frequency response and buffer step changes.

04. DISPATCH

Energy & Ancillary Services

Deliver rapid, market-responsive power while supporting availability performance.

150 MW. 300 MWh. TWO HOURS OF FLEXIBLE ERCOT ENERGY STORAGE.



EASTERN TEXAS BESS | **PERFORMANCE-ENHANCED STORAGE FOR ERCOT.**

Proposed Performance Signals

The proposed facility combines lithium-ion storage with a super-capacitor power layer to strengthen availability, manage rapid dispatch transitions, and support a more stable cash-flow profile during the contracted revenue-swap period.

150 MW	300 MWh	15 MW	$10.08M
proposed BESS nameplate power	proposed stored-energy capacity	proposed super-capacitor power layer	annual fixed payment at $7.00/kW-month on 120 MW*

Designed for Contracted Stability and Merchant Value

The proposed revenue structure is financial rather than a physical power-purchase agreement. During the revenue-swap period, the project earns 100% of ERCOT merchant revenue, with financial settlement against the contracted structure. At the end of the seven-year swap period, the fixed and floating settlement obligations terminate automatically and the asset continues as a fully merchant ERCOT resource.

Early-Life Revenue Floor

A fixed price of $7.00 per kW-month applies to a 120 MW revenue-swap quantity, subject to contractual availability adjustments.

Availability Matters

Higher availability can reduce floating settlement exposure and support more predictable net cash flow during the swap period.

Long-Term Merchant Asset

After the revenue-swap term ends, the BESS continues without a renewal, extension, or tail obligation under the swap.

Lender-Focused Structure

The intended design combines contracted stability, availability enhancement, and retention of long-term merchant value.

Super-Capacitor Layer: A Performance Enhancement

The proposed 15 MW super-capacitor layer is designed to augment the lithium-ion system without increasing energy duration. It is intended to absorb high-frequency dispatch and automatic-generation-control activity, buffer rapid power changes, and reduce lithium-ion thermal and power bottlenecks. That can support higher measured availability, lower forced-outage risk, and more consistent ancillary-service participation.

Fast Response

Sub-second response capability for short-duration, high-frequency operating events.

Availability Support

Designed to improve measured availability and reduce performance-related settlement exposure.

Battery Protection

Reduce lithium-ion cycling intensity and thermal/power stress during rapid transitions.

Ancillary Services

Support more consistent participation in regulation and reserve-service opportunities.

Revenue Protection

Planning model estimates $6–$8 million of swap-period cash-flow protection over seven years.*

Lifetime Value

Planning model estimates $16–$23 million of lifetime value from protection, merchant uplift, and avoided degradation risk.*

STORE SMARTER. RESPOND FASTER. PROTECT LONG-TERM VALUE.

Interested in performance-enhanced BESS development?

Contact Modern Thermal Design.
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