Modern Thermal Design

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

UTILITY-SCALE BATTERY ENERGY STORAGE

BESS – Reliable Energy Supply

Grid-scale storage. Data-center-ready power.

This Battery Energy Storage System is designed to deliver 693 MW / 1,386 MWh of fast, flexible energy storage to support grid resilience, renewable integration, and large-load development in Central Texas.

A Grid-Scale Energy Asset Built for Flexibility.

This **Central Texas BESS** installation will be utility-scale 693 MW / 1,386 MWh battery energy-storage facility designed around Tesla Megapack technology. The project is expected to connect through a 34.5 kV collection system and collector substation to a 345 kV transmission system—creating a major dispatchable-energy resource for reliability, renewable integration, and future large-load growth.

WHY IT MATTERS

◉ GRID RESILIENCE

↗ FLEXIBLE DISPATCH

AI LARGE-LOAD READY

◊ RENEWABLE INTEGRATION

Provide fast, controllable stored energy to help stabilize grid performance and improve operational reliability.	Store energy during low-demand or high-renewable periods and discharge it during peak demand or system constraints.	Support future data-center and other high-load development with a responsive, utility-scale energy asset.	Help make variable renewable generation more useful by shifting energy to when the grid needs it most.

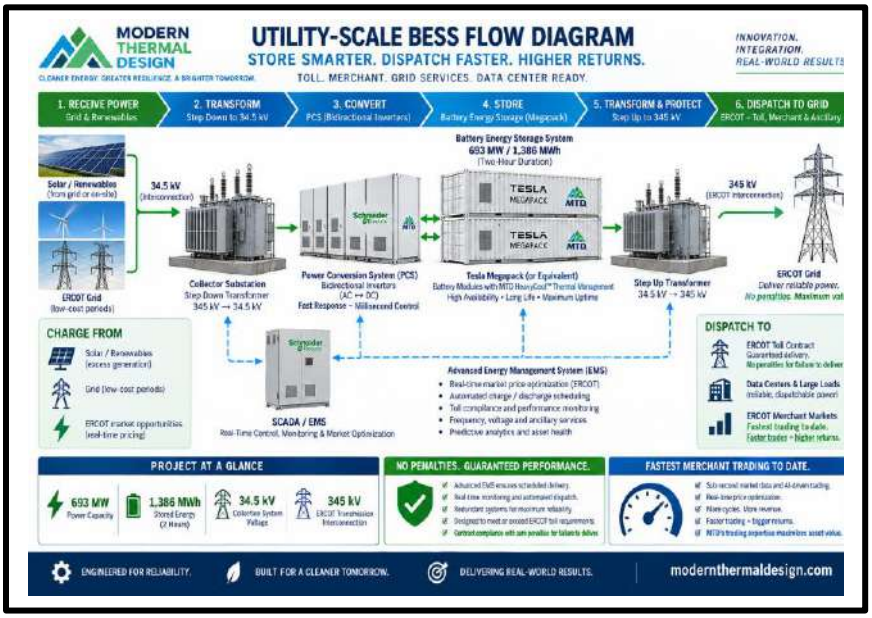
HOW THE BESS SYSTEM WORKS

Store Energy. Support the Grid. Dispatch on Demand.

The system is planned to charge when electricity is abundant or lower-cost and discharge quickly when demand, grid constraints, or utility operating conditions call for flexible power.

01. CHARGE	02. STORE	03. CONTROL	04. DISPATCH
Grid & Renewables	**Battery Modules**	**PCS & SCADA**	**Oncor Grid Support**
Store energy during low demand or periods of high renewable generation.	Containerized Megapack units or equivalent hold energy for later use.	Power-conversion and control systems manage safe, reliable energy flow.	Release energy rapidly for load leveling, voltage support, frequency response, or reserve capacity.

693 MW. 1,386 MWh. TWO HOURS OF UTILITY-SCALE DISPATCHABLE ENERGY.



CENTRALTEXAS BESS | **FLEXIBLE ENERGY FOR A MORE RESILIENT GRID.**

Proposed Performance Signals

This **BESS** project is designed as a two-hour, utility-scale storage resource capable of rapid response.

693 MW	1,386 MWh	34.5 kV	345 kV
proposed power capacity	**proposed stored-energy capacity**	**planned collection system voltage**	**planned Oncor transmission interconnection**

Built for Critical Grid Functions

This facility will support grid operations through fast, controlled charging and discharging, with the ability to assist the system during changing demand and operating conditions.

Load Leveling

Shift stored electricity into periods of higher demand to help balance grid load.

Frequency & Voltage Support

Provide rapid-response capability to help maintain stable system operating conditions.

Contingency Reserves

Hold dispatchable capacity available for grid events, operating constraints, or planned support needs.

Reduced Peaking Reliance

Help reduce reliance on peaking-generation assets and improve overall portfolio flexibility.

Designed for Safe, Coordinated Operation

The planned technical scope includes modular battery enclosures, power-conversion systems, transformers, switchgear, protection and control systems, SCADA integration, thermal management, fire protection, grounding, lightning protection, and construction/commissioning documentation. MTD's coordinated project role is designed to align engineering, utility interfaces, vendor systems, and commissioning oversight around a reliable path to commercial operation.

Battery & PCS Integration

Coordinate battery modules, inverters, DC interfaces, and power-conversion requirements.

Utility Interconnection

Coordinate collection, substation, protection, and interconnection requirements with Oncor.

Controls & SCADA

Enable data acquisition, monitoring, and control sequences compatible with utility dispatch.

Site & Safety Systems

Integrate HVAC, fire protection, site lighting, grounding, and lightning protection.

Commissioning Oversight

Support key energization, charge/discharge, protection, and interconnection milestones.

Data-Center Opportunity

Create a large-scale, flexible energy asset relevant to future high-load development.

STORE SMARTER. DISPATCH FASTER. BUILD A MORE RESILIENT GRID.

Interested in utility-scale BESS development? Contact Modern Thermal Design.

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