



**Salish Tribal
Alliance**

Introducing

EMWALL

by **EMTEL**
ENERGY USA



CURTIS STOUT



Advanced Graphene Electrostatic Wall-Mounted Storage
Solid-State Energy Storage to Take Your Home or Business Off-Grid

Non-Lithium
No Thermal Runaway



Full efficiency without temperature control between -22°F and 140°F



Proudly
Made in the
USA

Automatic Transfer
Switch to Seamlessly
Manage Solar, Grid and
Generator Inputs

100% Depth of
Discharge- No Issues
with Black Starts



Residential



Commercial*



Infrastructure*



EMWALL	
Capacity (kWh)	Scalable in 8kWh Increments
Inverter Size (kW)	Split Phase: 5 & 15kW
Efficiency	97.6%
Aggregate Throughput (Based on 20 cycle capacity factor)	>220 MWh (16kWh)
Lifespan in Cell Cycles	500,000+
Cycles Per Day	4
Warranty	10 years at ≥95% EOL
Charge Time	~1 hour
Replaceable Inverter	✓
AC/DC Coupling	DC Coupled; AC Capable
Noise Output (dBA)	<30
Offered in 3-Phase	✓
Duration	12+ hour

*3-phase coming soon

**Integrate with Solar for the Most
Advanced Microgrid-Ready Solution**



100% Recyclable
80% Biodegradable



Charge in ~1 hr



Cycles per day



CURTIS STOUT



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+1-501-374-1399



Little Rock, Arkansas
+77 years of service



ENRACK by **EMTEL** ENERGY USA

A Safe & Resilient Graphene Storage & UPS Alternative

≥95% Efficiency
for
Over 10 years

- Electrostatic, Supercapacitor-based technology that stores energy to deliver power on demand in nanoseconds.
- System can be used alongside an existing UPS to replace VRLA + Lithium or as a standalone solution

Save on:

- Cooling Systems
- Cost per Square Foot
- Utility Bills
- System Sizing
- Replacement/O&M

See
Faster
ROI

99.1% Round Trip Efficiency
100% Depth of Discharge
500,000+ Cycle Life
4 Cycles Per Day

The Lowest Risk & Safest Solution

- No Thermal Runaway
- No Heat Signature
- No Cooling Needed



VRLA Replacement Project

- Over 80% Floor Space Reduction
- Over 50% Floor Load Reduction
- 4% Average Utility Cost Savings
- Extended System Life 15+ Years

Before

(46 sq.ft. & 614lb./sq.ft.)

After

(9 sq.ft. & 266lb./sq.ft | 100kWh rack)



100% Recyclable
80% Biodegradable



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Resiliency & Autonomy with ENPACK Containerized Electrostatic Long Duration Energy Storage



**A fully-customizable solid state storage
and management system**



Highly-Dense Graphene

Our modules are 100% recyclable and 80% biodegradable. The primary component, graphene, is made of waste material-no mining required



Efficient, Safe & Heat Free

Our energy storage modules operate at 99.1% efficiency in extreme temperatures (-22° to 140°F) without supplemental cooling. With no heat signature, they're safe for indoor use and are far safer than lithium alternatives



Nearly No Loss or Degradation

We've taken the benefits of supercapacitors, removed the downsides, and enabled storage for months at a time with no leakage



Source-Agnostic

Our system makes the most of renewable energy and integrates and blends up to eight inputs. Flexible and able to be grid-tied for time-of-use optimization, or off-grid to achieve energy independence



**No need to Oversize
Hot-Swappable Modules
Full System with Inverter,
Conversion & EMS**

20' = 2MWh | 40' = 4.2MWh*

Key Features:

Short-to-long duration
(2- 12+ hours)

Cycle up to Four Times
Per Day for Max ROI

Supercap Tech: Responds
in Nanoseconds

100% Depth of
Discharge

Our sustainable energy storage is a complete solution fit out with energy server, management system, storage, and more. We are the only clean long duration storage that can replace lithium with superior performance

*10MWh per 40' in 2025



**10-20-year Zero-
Degradation Warranties
promise our systems work
at >95% efficiency at EOL**

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CURTIS STOUT
Little Rock, Arkansas



Key Differentiators

Core Technology & Design

- Solid State Super Capacitor-Based Storage with Reduced Area Footprint
- Electrostatic vs. Electrochemical Process
- Non-Hazardous 100% Synthetic Graphene Technology
- Non-Lithium- Safe for Indoor Use
- Non-Flammable with No Thermal Runaway or Heat Signature
- Microgrid Compatible
- Internal DC to AC Conversion with Onboard Inverters

Performance & Efficiency

- 500,000+ Cell Cycles
- Four Cycles/Day at 100% Depth of Discharge
 - Ideal for Automated Peak Shaving
- Full 60 to 90 Minute Round Trip Recharge @ 99% Efficiency
- 95% Charge-Discharge Efficiency
- Up to 100% transfer of Stored Energy in Nanoseconds
- Provides Clean, Load-Leveling Power via Voltage and Frequency Regulation

Energy Density & Scalability

- 350Wh/Kg Energy Density (800Wh/Kg expected late 2025)
- Significant Reduction in Footprint over BESS
- Simultaneously Discharge and Recharge
 - ENPACK containerized system manages up to 8 inputs



Durability & Environmental Resilience

- Maintains Full Efficiency Without Supplemental HVAC
 - Operating Range: -22°F to +140°F (-30°C to +60°C)
- Does Not Combust when in Contact with Salt or Fresh Water
- Degradation <1% – No Need to Oversize Design to Account for Degradation
- Less than 1% Energy Leakage in Static Storage Phase

Maintenance & Longevity

- Minimal Maintenance Required – Modules Rated for Lifetime
- "Hot Swappable" - Single Modules Can Be Replaced During Operation
- Warranty up to 20 years
- Zero Ramp Up, Ramp Down – Zero Required Downtime

Regulatory Compliance & Manufacturing

- Buy America Act Compliant - No Chinese Components
- Quick Manufacturing / Ship Time - Less Than 6 months
- UL Pending 810A / 9540. Approval scheduled for 4/30/25

Low Environmental and Community Impact

- Virtually No Noise – System Operates at 30-60 dBA
- 100% Recyclable - 80% Biodegradable

Reliable • Safe • Affordable

Power in Your Control



CURTIS STOUT

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