

2023

Renewable Energy Storage System (RESS)

- RESS; Specializes in energy solutions and services on a global scale. We focus on renewable energy systems, energy efficiency technologies, power management solutions, and sustainable energy consulting.
- Our expertise involves designing, developing, implementing, and maintaining energy systems to meet the diverse needs of clients around the world.
- We aim to contribute to a greener and more sustainable future by harnessing the power of innovative energy solutions. Renewables will make up over one third of the global generation mix by 2025.

Wilson González TWR CEO

Renewable Energy Strategies

Nature and innovation go hand in hand in providing a safer future thanks to renewable energy products developed by our team and its partners.

Allow us to help drive an end to end strategy to maximize your output, rate of return, and environmental safety.

Safe Battery Energy Storage Systems (RESS)





Safe Battery Energy Storage Systems (RESS)

 Only US designed and manufactured alternative to lithium-ion and leadacid monopolar batteries for critical 3 to 12 hour discharge duration applications.

Fully sealed. Selfcontained.

Long lived.

Non-flammable. Non-corrosive. High tolerance. Low degradation.

Variable Dod (Depth of Discharge) . Variable duration.

Reliable supply. Ethical sourcing. Environmentally safe. No E-Waste.

Data Sheet (RESS)

Item	Description				
Non-Lithium	Zinc hybrid cathode technology. Only US designed and manufactured alternative to lithium.				
Discharge Applications	3-12 hours.				
Deployments	Largest non-lithium global project: 1.2 GWh (today); 2 GWh (2024) and 3+ GWh (2025).				
USA	Domestic designed and manufactured. Only company meeting max tax credits at 50%.				
Tax Credits	US MANUFACTURER, can lift foreign solar products for domestic content bonus for solar + RESS.				
Tax Credit Value	50% Tax Credits for (RESS) and unlocks 10% domestic content bonus for foreign solar products.				
Sourcing	Local suppliers, Zinc. Five (5) widely available commodities within Six (6) hrs of manufacturing facilities.				
Durability	Degradation curve at less than 9% over the first 3 years, and 0% thereafter.				
Rated Capacity	>91% of rated capacity over product lifespan.				
Safety	Fully Sealed. Self contained water based unit that is non-flammable.				
Utilities	Does NOT require fire or HVAC (Heating, Ventilation and Air Conditioning); No risk of thermal runaway.				
Maintenance	Closed System. No moving parts, 20+ year lifecycle. 72% maintenance reduction from Lithium.				
Footprint	No Fire risk. 84% Lower GHG footprint. Stackable (5 high), for a much smaller footprint.				
Environmentally Safe	100% recyclable, minimal E-waste.				
Long-Term Financial	20+ year lifecycle; payback 2.4x than lithium.				

RESS; Clean Energy Production

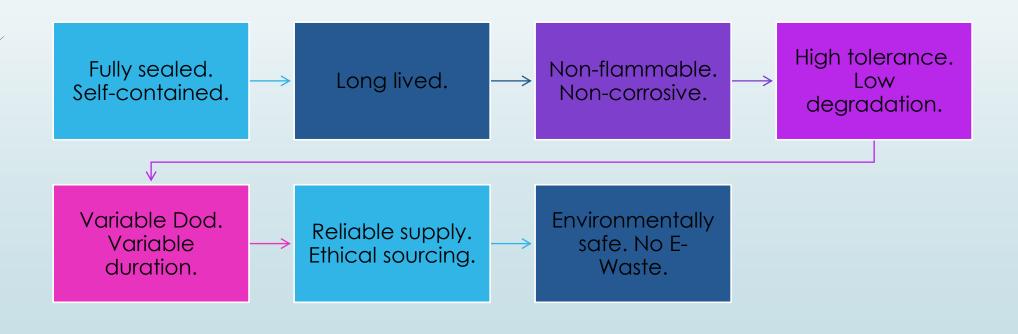
Safe Energy Storage.

Carbon Credits.

Engineering & Development.

Safe Battery Energy Storage Systems

Only US designed and manufactured. Alternative to lithium-ion and lead-acid mono-polar batteries for critical 3 to 12 hour discharge duration applications.



The Power of Non-Lithium Rees

Zinc-powered aqueous liquid battery modules are as high-performing and price-competitive as leading industry storage solutions in the intraday market. Proven and globally deployed zinc-powered chemistry delivers significant additional operational advantages in 3 to 12 hour discharge duration applications that other technologies simply can't match.

Fully Sealed. Long lived

Each battery module is a self-contained unit, a closed-system design with no moving or delicate parts, so they're as easy and cost-effective to maintain as they are to manufacture. And they can last at least 6,000 cycles almost twice the operational life of most conventional battery chemistries.

Non-Flammable. Non-Corrosive

Modules are inherently safe to use. With a water-based electrolyte and flame-retardant polymer framing, there's no risk of thermal runaway. When fully charged, they're at most mildly acidic (pH 2-4 range). And even when overcharged, only negligible levels of hydrogen are off-gassed.

High tolerance. Low degradation

No matter what conditions our battery modules face, they keep on going even fully recovering from 90°C abuse cycles with just a simple, short rest period with no change to their overall degradation curve. Which, at less than 9% over the first 3 years and then zero thereafter, is well below conventional standards.

Variable DoD (Depth of Discharge). Variable Duration

■ The zinc based battery chemistry is highly tolerant of significant variation in operational requirements. A module's storage duration can range from 3 to 12 hours, with no impact on degradation. And the maximum DoD (Depth of Discharge), can be reduced for applications demanding round trip efficiency in the mid 80s.

Reliable Supply. Ethical Sourcing

Modules require just five low-cost, widely used, earth-abundant commodities, that have no geopolitical issues connected to their extraction. This enables local sourcing that minimizes the risk of supply chain disruptions and related price swings.

Environmentally Safe. No E-Waste

When lithium-ion batteries are disposed of, they become electronic waste, also known as E-Waste. E-Waste has been declared one of our world's most pressing issues for environmental and human health by the United Nations. Our battery modules are 100% recyclable and eliminates E-Waste.

Engineering & Development

Our team works directly with you to tailor and deliver supportive services to ensure efficient and success outcomes.

Carbon Credit Platform

Global Innovator

The most advanced and secure digital Renewable Energy Credit (REC) and Carbon Credit (CC) platform to fully automate the digital onboarding.

Digital Platform

Users and their projects undergo an efficient vetting and approval process to ensure the highest level of security, transparency, and management.

Global Standards

Credit issued from the platform meet the highest global standards and adhere to the IREC protocol.

Automated & Secure

A simple API integration enables the platform to collect digital production data and analyze against IREC protocol standards for validation, certification, and decentralized digitization.

Transparency & Quality Assurance

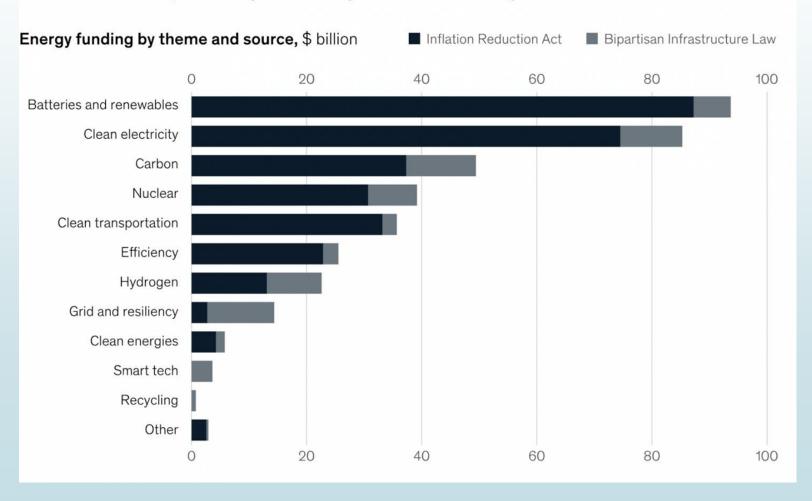
All steps in the credit life cycle are tracked, recorded, and visible through decentralized tokenization until the credit is retired.

Profitability

Because the program meets the highest global standard and is 100% traceable, credits can be sold into global markets for a premium over traditional USA, utilities or M-REC providers.

Energy Funding by Theme

Energy funding from the Bipartisan Infrastructure Law and the Inflation Reduction Act spans major funding themes, totaling \$370 billion.



Tax Credit Benefits

Inflation Reduction Act (IRA)

	Clean Energy & Storage				
Program	Credit	Hydrogen	Solar	BESS	Solar + BESS
IRA Alternative Energy	30%		$\overline{\square}$	$\overline{\checkmark}$	
IRA Energy Transition Manufacturing Zone	10%	Ø	\square		Ø
¹ IRA Domestic Content Bonus	10%			$\overline{\square}$	✓
USDA Rural Energy	50%	\square			

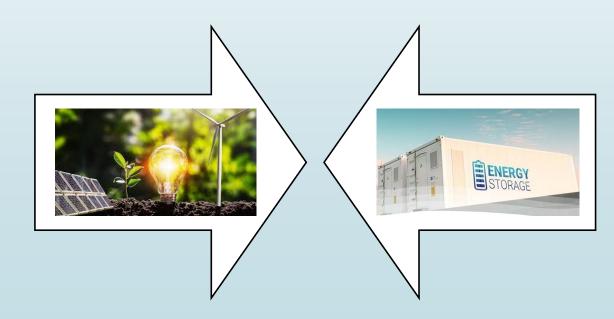
NOTES:

- ✓ Solar + RESS, RESS 80% USA MANU can unlock foreign solar credit for domestic content.
- ✓ Programs and tax credits are based solely on a successful application and qualification by the applying party.

Powering Renewable Possibilities Worldwide

CLEAN ENERGY

The Wind Energy; and Advanced solar combined with hydrogen powered energy with solid oxide fuel cell technology delivers reliable, resilient, 24/7 onsite power with world leading efficiency for commercial, government and residential opportunities. It also applies to all renewable energies.





TWR

Is committed to put all effort to make this project happen, commitment founded by our slogan,

"People Helping People"

We appreciate your valuable time



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