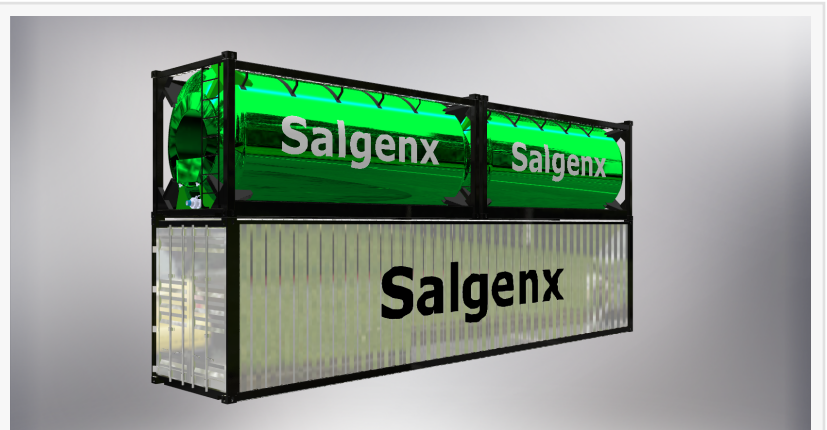


Introducing the Future of Grid-Scale Energy Storage: Revolutionary Saltwater Redox Flow Batteries

Revolutionary saltwater redox flow batteries offer benefits beyond Lithium.

MADISON, WISCONSIN, USA, September 6, 2023 /EINPresswire.com/ -- Saltwater Redox Flow Batteries are emerging as a groundbreaking solution in the field of grid-scale energy storage, known for their superior efficiency, scalability, and safety features. These energy storage systems represent a significant advance over traditional battery systems such as lithium-ion, which often face challenges related to degradation, limited cycle life, and safety concerns.



Salgenx S3000 innovative saltwater flow battery technology. Unlock the power of storage, thermal storage, and graphene production with this membrane-free Redox flow battery. Explore the limitless potential of our aqueous saltwater flow battery solution.

A distinguishing characteristic of Saltwater Redox Flow Batteries is the elimination of the membrane, a component commonly found in traditional flow batteries. This omission leads to more straightforward design and lower material costs. Furthermore, the electrolytes in these batteries are saltwater-based and non-flammable, substantially reducing safety risks associated with energy storage systems.

“

These advanced flow batteries leverage saltwater-based electrolytes, enabling membrane-free and non-flammable operations.”

Greg Giese (CEO of Salgenx)

Greg Giese, CEO of [Salgenx](#), commented, "The saltwater-based electrolytes in these advanced flow batteries allow for membrane-free and non-flammable operations. As the urgency of the climate crisis grows, the demand for sustainable, scalable energy storage solutions is becoming increasingly critical. Saltwater Redox Flow Batteries stand

out as an optimal choice, especially for renewable energy systems like wind and solar, where energy output can fluctuate."

Key Advantages of Saltwater Redox Flow Batteries Include:

Longevity: The batteries are engineered to operate for extended periods without significant performance degradation.

Safety Enhancements: The use of saltwater-based electrolytes substantially minimizes safety risks, as they are non-flammable.

Flexibility in Scaling: These batteries can be easily expanded or reduced to meet specific energy requirements, making them ideal for grid-scale applications.

Cost Efficiency: The design, simplified by the lack of a membrane, results in reduced material costs.

In summary, Saltwater Redox Flow Batteries are paving the way for more sustainable, efficient, and adaptable energy storage options.

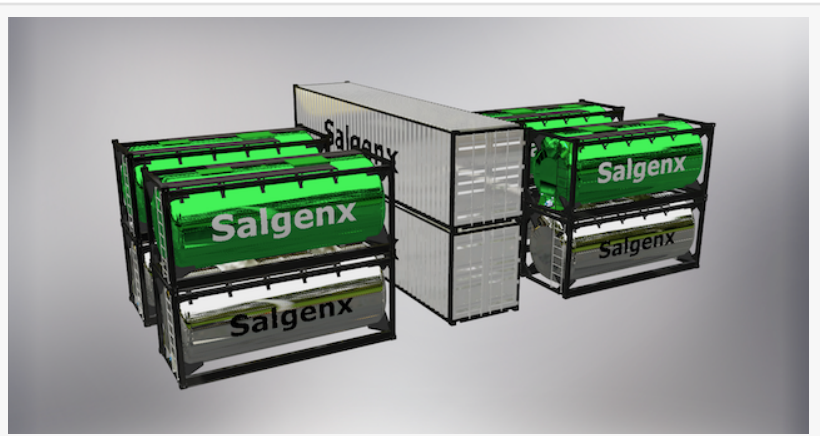
Salgenx (a division of [Infinity Turbine LLC](https://www.infinityturbine.com)) is a trailblazing leader in energy storage and sustainable technology solutions. With a commitment to innovation and environmental responsibility, the company strives to redefine the boundaries of energy storage capabilities to pave the way for a brighter and greener future.

Contact: Greg Giese | CEO | Infinity Turbine LLC | greg@infinityturbine.com | greg@salgenx.com


Infinity Turbine Website: <https://www.infinityturbine.com>

Saltwater Battery Website: <https://salgenx.com>

Gregory Giese



Salgenx S12MW 12,000 kWh Grid Scale Battery




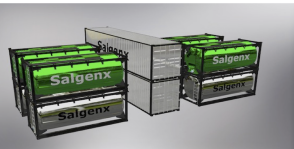
Salgenx Salt Water Battery 2023 Technology Readiness Level

- TRL 9 - Actual system proven in real-world conditions
- TRL 8 - Actual system completed and tested
- TRL 7 - Full system prototype demonstration
- TRL 6 - Numbered or scaled up module demonstrated
- TRL 5 - Module prototype formulated and tested
- TRL 4 - Validation in lab environment
- TRL 3 - Experimental proof-of-concept established
- TRL 2 - Technology concept application formulated
- TRL 1 - Basic principles observed and reported

Manufacturer: Salgenx Salt Water Battery Tax Credits Analysis
3,000 kW (3 MW) Salgenx Salt Water Flow Battery Technology | 1/2/2023
Tax credits may be used by the manufacturer and owner of the battery, or sold to a unrelated party. Potential credits for assembly only from USA components. Total cost \$200.

Units per Year	kW	Credit per kW	Mfg Tax Credit per Year	Battery Sales	Profit per Year
1	3,000	\$35	\$105,000	\$500,000	\$205,000
12	3,000	\$35	\$1,260,000	\$6,000,000	\$2,050,000
24	3,000	\$35	\$2,520,000	\$12,000,000	\$4,090,000
48	3,000	\$35	\$5,040,000	\$24,000,000	\$8,180,000
96	3,000	\$35	\$10,080,000	\$48,000,000	\$16,360,000
192	3,000	\$35	\$20,160,000	\$96,000,000	\$32,720,000
384	3,000	\$35	\$40,320,000	\$192,000,000	\$65,440,000

Type of Design	Lifetime Expectancy	Cost of Active Material	Cost of Membranes	Round Trip Efficiency	Energy Density	Peak Power Density	Profit per Year
Salt Water Flow Battery	>25 years	\$5/kWh	\$0/m ²	91% at 10mA/cm ²	125.7Wh/L	325mW/cm ²	\$2,460,000
Vanadium Aqueous HCF TM	>20 years	\$90/kWh	\$500/m ²	88-90% at 20mA/cm ²	22.8-43.1 Wh/L	50mW/cm ²	\$5,280,000
Zinc-Bromine TM	>20 years	\$15-\$20/kWh	\$500/m ²	82% at 20mA/cm ²	60-70Wh/L	70mW/cm ²	\$11,040,000
Lithium-Lithium Iron Phosphate TM	>10 years	\$40/kWh	\$10-\$20/m ²	90%	67Wh/L	328mW/cm ²	\$23,040,000
							\$32,400,000
							\$69,600,000

Salgenx Flow Battery Tech Report

Infinity Turbine LLC

+1 608-238-6001

[email us here](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/653777449>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.