

# Salgenx Pioneers New Analog Battery Technology Inspired by Biomimicry

*Salgenx Pioneers New Analog Saltwater Flow Battery Technology Inspired by Biomimicry for Energy Storage and Desalination*

MADISON, WI, USA, May 17, 2024 /EINPresswire.com/ -- [Salgenx](#), a leading developer in the flow battery industry, is revolutionizing energy storage with the development of a groundbreaking analog battery inspired by biomimicry. This innovation marks a significant departure from the conventional battery technology that has remained largely unchanged since Alessandro Volta's creation of the first modern battery in 1799.



Salgenx Saltwater Grid-Scale Energy Storage to Utilize Offshore Wind Energy

Traditional batteries operate conceptionally with chemistry on a binary system, akin to an on-off switch, similar to most digital computers. In contrast, the new Salgenx battery system leverages the principles of analog computing, allowing for a continuous variation of physical phenomena such as electrical, mechanical, and hydraulic qualities. This advancement enables the battery to model the cell more discretely and efficiently, akin to how biological systems function.

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Our analog battery technology represents a significant leap forward, offering a multitude of applications that extend far beyond the capabilities of traditional batteries.”

*Greg Giese CEO at Salgenx*

Central to Salgenx's new technology is its mimicking of natural processes, particularly the function of mitochondria, the powerhouse of biological cells. This biomimetic approach allows the battery's electrolytes to flow in a liquid state, enhancing energy storage and efficiency. The Salgenx system is not only capable of

storing electrical energy but can also store thermal energy and provide desalination, significantly broadening its range of applications beyond those of traditional batteries.

Moreover, the charging process in Salgenx's analog battery system can be utilized to create new battery materials, such as graphene, further showcasing the versatility and potential of this technology. This multi-functional capability vastly increases the array of applications for the Salgenx battery, making it a game-changer in the field of energy storage.

In a unique twist, Salgenx is exploring the use of non-fermenting fibers, such as psyllium husk, as a binding agent for the absorption of sodium. With the integration of AI extrapolation, there is potential for future developments where the battery could store electrical energy through mechanical rather than electrochemical reactions, opening new avenues for innovation in energy storage and desalination.

"By mimicking the natural processes found in biological systems, we are not only enhancing the efficiency and functionality of flow batteries but also paving the way for a new era of energy storage solutions," said Greg Giese, CEO at Salgenx. "Our analog battery technology represents a significant leap forward, offering a multitude of applications that extend far beyond the capabilities of traditional batteries."

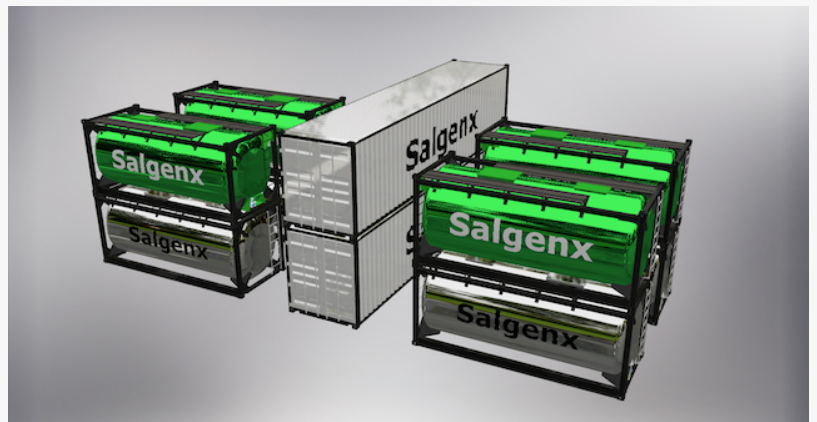
Salgenx's pioneering work in analog battery technology is set to transform the energy storage landscape, providing a versatile, efficient, and sustainable solution for a wide range of applications.

About Salgenx and [Infinity Turbine LLC](#)

Salgenx, in strategic collaboration with Infinity Turbine LLC, stands at the cutting edge of



Salgenx desalination is perfect for islands and remote oceanic villages



Salgenx S12MW 12,000 kWh Grid Scale Energy Storage Battery

transformative solutions, showcasing a commitment to excellence and innovation through grid-scale saltwater battery energy storage, destined to set unparalleled standards in manufacturing and battery technology.

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