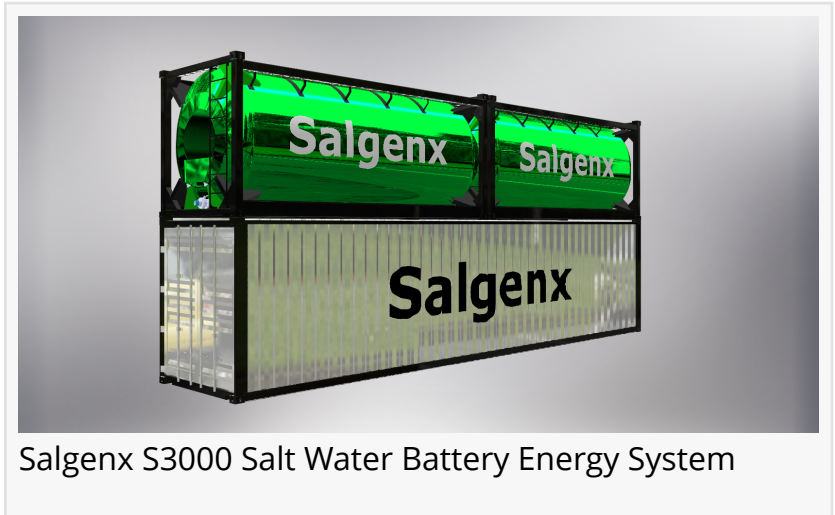


Flow Battery Technology Advancement: Simultaneous Production of Cathode Materials and Supercapacitors

Flow battery technology may soon include simultaneous production of cathode materials and supercapacitors.

MADISON, WISCONSIN, USA, July 31, 2023 /EINPresswire.com/ -- [Salgenx](https://www.salgenx.com), a pioneering leader in energy storage solutions, is revolutionizing the battery industry with a groundbreaking development. They are developing a process that enables flow batteries to manufacture cathode materials while charging. This innovative breakthrough promises to bring about rapid production of cathode materials at reduced costs and significantly faster production times.



Salgenx S3000 Salt Water Battery Energy System

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We are thrilled to develop this cutting-edge technology of simultaneous production of cathode materials during charging which represents a significant leap forward in battery innovation.”

Greg Giese, CEO at Salgenx

The concept of a battery producing its own battery materials during charging is as fascinating as robots manufacturing their own parts and assembling them. Salgenx's revolutionary process allows flow batteries to harness this capability, creating a vast universe of manufacturing possibilities. Notably, it includes the production of graphene, carbon nano-onions, and various other cathode materials for both batteries and supercapacitors.

These cathode materials hold immense importance, not only for the evolution and production of flow batteries but also for supercapacitors (and ultracapacitors). Supercapacitors play a vital role in enabling swift integration of flow batteries into grid-based storage systems. In contrast to traditional lithium-based storage systems, the inherent slower discharge of flow batteries posed a challenge for grid-based peaker plants. However, with the introduction of ultracapacitors, the scenario changes drastically, allowing

faster discharge of energy.

A newly designed [supercapacitor](#) by The University of Texas at El Paso utilizes a material with a carbon nano-onion (CNO) core structure, creating multiple pores that significantly increase energy storage capacity. This breakthrough brings supercapacitors closer to achieving high energy density, which would revolutionize energy storage and management.

This revolutionary manufacturing method, coupled with the inherent advantages of flow batteries, opens the door to faster production and deployment into the market. Salgenx is at the forefront of this remarkable development, and they envision a future where battery cathode materials can be manufactured on-demand through the implementation of AI-driven just-in-time manufacturing.

"We are thrilled to develop this cutting-edge technology that will redefine energy storage systems. The simultaneous production of cathode materials and supercapacitors during charging represents a significant leap forward in battery innovation," said Greg Giese, CEO at Salgenx. "Our vision is to provide a seamless transition to a greener and more efficient energy future."

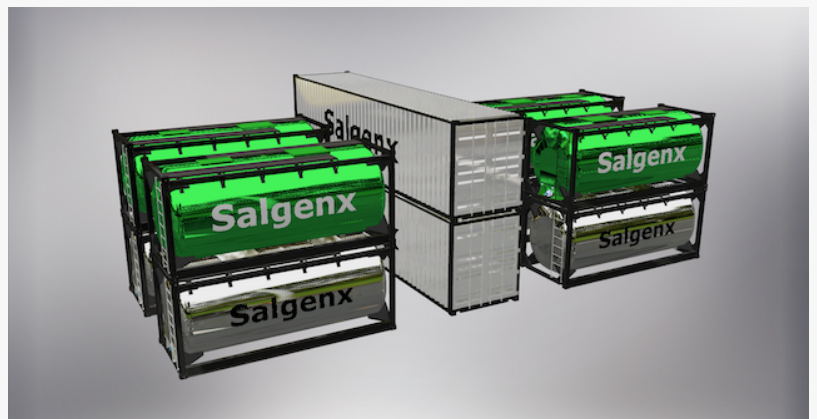
With this groundbreaking advancement, Salgenx aims to accelerate the adoption of flow battery technology in various sectors, including renewable energy integration, grid-based energy storage, and industrial applications. The implications of this



Example of Ultra Capacitor



Simultaneously producing graphene from flow battery energy storage



Salgenx S12MW 12,000 kWh Grid Scale Battery

development are poised to revolutionize energy storage and drive sustainable energy solutions forward.

Salgenx has recently published the "Salgenx Saltwater Redox Flow Battery Technology Review," a comprehensive report detailing the advancements and capabilities of their innovative energy storage technology along with simultaneous production of graphene, cathode materials, and carbon nano-onions (CNO). The report provides an in-depth analysis of flow battery technology including ultracapacitors and their possible applications in a saltwater battery system. It highlights



Salgenx simultaneous production of graphene

the benefits of combining ultracapacitors and redox flow batteries, offering valuable insights into the future of grid-scale energy storage. The report is available through [Infinity Turbine](https://www.infinityturbine.com) website: <https://www.infinityturbine.com>

Salgenx, a division of Infinity Turbine LLC is committed to advancing the development of this innovative technology through collaboration with industry partners, academic institutions, and government agencies. The company anticipates pilot projects and commercial deployments in the future when funding becomes available, contributing to the global transition towards a clean and sustainable energy infrastructure.

About Salgenx:

Salgenx is a leading provider of advanced energy storage solutions. The company specializes in developing innovative technologies and products that address the challenges of grid integration, renewable energy storage, and peak power management. Salgenx is committed to driving the adoption of sustainable energy solutions to build a greener and more resilient future.

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

Saltwater Battery Technology Report: <https://infinityturbine.com/flow-battery-technology-report.html>

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