Salgenx Revolutionizes Energy Storage with AI-Powered NVIDIA Saltwater Battery Technology

Salgenx Developing AI-Powered NVIDIA Technology to Provide Predictive Analysis to Revolutionize how Grid-scale Battery Farms Manage and Utilize Energy Storage

AMSTERDAM, NORTH HOLLAND PROVINCE, NETHERLANDS, March 21, 2024 /EINPresswire.com/ -- In a groundbreaking development, Salgenx is developing its latest innovation in renewable energy storage: an advanced saltwater battery system, now enhanced by artificial intelligence for optimal functionality. This pioneering technology not only provides a sustainable and efficient energy storage solution but also introduces capabilities for thermal storage, desalination, and graphene production simultaneously while charging, setting a new standard in the energy sector.

Leveraging the power of AI, Salgenx's system uses predictive models to intelligently determine the prioritization of its multifaceted functions. This ensures maximum efficiency and adaptability to changing energy requirements, mirroring the success seen in other industries where AI and big data have transformed operational capabilities. For instance, Walmart has significantly improved inventory forecasting through NVIDIA's accelerated solutions, underscoring the potential of integrating AI into business operations.

With the incorporation of NVIDIA accelerated data science, Salgenx's technology addresses common challenges in the field of prediction and forecasting. Traditional methods, often hindered by computational bottlenecks and extensive cycle times, are no match for the speed and efficiency offered by NVIDIA's full-stack solutions. By reducing operations like data loading, processing, and profit training from days to minutes, Salgenx's AI-enhanced system is poised to revolutionize how grid-scale battery farms manage and utilize energy storage.


Salgenx Saltwater Battery Configurations

Model: Salgenx S3000: 3000 kWh
Retail Price: $1,000,000
Net Profit: $499,160
10 x Units Sold Net Profit: $4,991,600
  Tax Credits @ $105,588 per unit x 10 = $10,558,800
  Payback on License: 5 Units
100 x Units Sold Net Profit: $49,916,000
  Tax Credits @ 100 units sold: $10,558,800
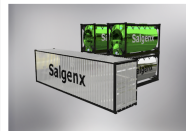
Model: Salgenx S6MW: 6,000 kWh
Retail Price: $2,000,000
Net Profit: $1,148,320
10 x Units Sold Net Profit: $11,483,200
  Tax Credits @ $211,176 per unit x 10 = $21,117,600
  Payback on License: 2.2 Units
100 x Units Sold Net Profit: $114,832,000
  Tax Credits @ 100 units sold: $21,117,600
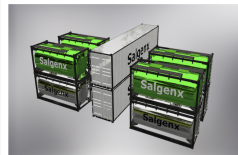
Model: Salgenx S12MW: 12,000 kWh
Retail Price: $4,000,000
Net Profit: $2,401,500
10 x Units Sold Net Profit: $24,015,000
  Tax Credits @ $439,950 per unit x 10 = $43,995,000
  Payback on License: 1 Units
100 x Units Sold Net Profit: $240,150,000
  Tax Credits @ 100 units sold: $43,995,000

Model: Salgenx S18MW: 18,000 kWh
Retail Price: $6,000,000
Net Profit: $3,687,250
10 x Units Sold Net Profit: $36,872,500
  Tax Credits @ $659,925 per unit x 10 = $65,992,500
  Payback on License: .7 Units
100 x Units Sold Net Profit: $368,725,000
  Tax Credits @ 100 units sold: $65,992,500

INFINITY TURBINE	Salgenx Saltwater Battery Configurations	2023 20231104	Infrastructure and component Patent
	Technology Available for License	Copyright 2023 - Infinity Turbine LLC	US7726331B1 Valid until 2029

Salgenx Saltwater Battery Model Configurations

The collaboration with NVIDIA technology enables Salgenx to bypass the frustrations of large-scale prediction processes, such as the need for extensive software refactoring and the inefficiencies of CPU-based implementations. Instead, Salgenx's system benefits from NVIDIA's RAPIDS™ and CUDA®, allowing for accelerated predictive analysis and forecasting pipelines on NVIDIA GPUs. This innovation not only streamlines the operation of Salgenx's saltwater batteries but also significantly enhances their performance and reliability.

By harnessing the power of predictive analytics, priority management, and profit analysis, the Salgenx flow battery transforms into a cornerstone for sustainable energy storage solutions that are not just eco-friendly but also economically advantageous, paving the way for a greener and more profitable future in the energy sector.

As the demand for renewable energy solutions continues to grow, Salgenx's AI-powered saltwater battery technology represents a significant leap forward in meeting the world's energy storage needs. By combining sustainable practices with the latest in AI and accelerated computing, Salgenx is building the business of tomorrow, today.

The Salgenx saltwater flow battery, housed within standard shipping containers, boasts a modular design that facilitates easy transport across the globe, or manufactured locally where shipping containers are available. With a capacity starting at 3000 kWh or 3 MWh, this cutting-edge battery rivals mega packs in energy storage capabilities. However, what sets it apart is its multifunctionality, which includes desalination and thermal storage features.

The integration of desalination capabilities allows the Salgenx saltwater battery to convert seawater into potable water while simultaneously charging. This feature addresses the pressing need for clean water in coastal regions, offering a sustainable solution that leverages renewable energy sources, such as off-shore wind energy or when the grid can't accept more power from wind or solar PV.

Furthermore, the thermal storage capabilities of the battery enhance its versatility, enabling it to store heat or cold using heat pumps with grid-based rate arbitrage for later use during on-peak demand. It can also store wind energy excess (heat dumping) or solar thermal energy.

The Salgenx flow battery, leveraging the unique characteristics of saltwater for energy storage, embodies a fusion of cutting-edge technology and strategic foresight. Through the integration of predictive analysis tools, the system not only forecasts energy consumption patterns but also optimizes the timing for charging and discharging, enhancing overall efficiency and reducing operational costs. By analyzing data on flow usage, these batteries prioritize energy storage and release based on peak and off-peak tariffs, thereby maximizing profit margins. Furthermore, the profit analyzer component evaluates market trends and electricity prices in real-time, guiding the battery's operation to capitalize on arbitrage opportunities. This advanced analytical approach extends beyond mere energy storage, enabling the Salgenx flow battery to act as a profit machine center. It intelligently identifies optimal moments for the production of other batteries

and cathode materials, thus reducing manufacturing costs and boosting revenue.

About Salgenx (a division of [Infinity Turbine](#) LLC)

Salgenx is a leading provider of AI based sustainable energy solutions, committed to revolutionizing the way energy is generated, stored, and utilized. With a focus on innovation and environmental stewardship, Salgenx strives to empower communities worldwide with access to clean, reliable energy sources.

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