

# Salgenx Poised to Seize Market Demand for Grid-Scale Batteries as Tesla Faces Battery Tax Backlog

*Salgenx seizes opportunity in grid-scale battery market as Tesla faces backlog. Salt water redox flow batteries meet demand with enhanced benefits.*

MADISON, WISCONSIN, USA, May 19, 2023

/EINPresswire.com/ -- [Salgenx](https://www.einpresswire.com/company/102023/salgenx), a leading innovator in salt water flow battery technology, is gearing up to fulfill the burgeoning market demand for large-scale grid batteries in the renewable energy sector. With Tesla's recent backlog of orders and their existing product limitations, Salgenx sees a tremendous opportunity to offer enhanced benefits and meet the growing needs of the wind and solar industry.

Tesla's Lathrop Megapack factory, which currently produces 4-9 units of 3EU (3.9 MWh equivalent unit) per day, has a staggering two-year backlog of orders. This backlog amounts to approximately 20,000 orders, with each 3EU priced at \$2.4 million (base price). Furthermore, Tesla's declared production capacity of 40 GWh per year translates to 10,000 units or 29 Megapacks per day, which is equivalent to producing 250,000 Tesla cars annually.

In addition to the Lathrop Megapack factory, Tesla's Nevada facility contributes to the company's overall manufacturing capacity. With the addition of two new Megafactories, Tesla's total potential capacity reaches an astonishing 83 GWh (over 20,000 units) per year. This remarkable expansion in production capacity positions Tesla as a leading force in the global energy storage market. Thank you Elon Musk for improving our planet.

Tesla's exponential growth in capacity is remarkable. In 2020, the company nearly doubled its deployment, exceeding 3 GWh. Subsequently, in 2021, Tesla achieved a remarkable 25% increase, reaching 4 GWh. The company's outstanding performance continued in 2022, with a remarkable 62% growth in capacity. These figures showcase Tesla's unwavering dedication to

**Manufacturer: Salgenx Salt Water Battery Tax Credits Analysis**  
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The credits may be used by the manufacturer and seller of the battery, or sold to a unrelated party. Partial credits for assembly only from USA components. Valid until 2025.

Units per Year	MW	Credit per MW	Mfg Tax Credit per Year	Battery Sales	Profit
1	3,000	\$35	\$105,000	\$500,000	\$395,000
12	3,000	\$35	\$1,260,000	\$500,000	\$2,060,000
24	3,000	\$35	\$2,520,000	\$500,000	\$3,540,000
48	3,000	\$35	\$5,040,000	\$500,000	\$7,540,000
96	3,000	\$35	\$10,080,000	\$500,000	\$15,040,000
192	3,000	\$35	\$20,160,000	\$500,000	\$30,160,000
240	3,000	\$35	\$25,200,000	\$500,000	\$37,700,000

  

Type of Design	Lifetime Expectancy	Cost of Active Material	Cost of Membranes	Round Trip Efficiency	Energy Density	Peak Power Density
Salt Water Battery	>25 years	\$5/kWh	\$0/m <sup>2</sup>	91% at 10mA/cm <sup>2</sup>	125.7Wh/L	325W/Wm <sup>2</sup>
Vanadium Against HCP <sup>TM</sup>	>20 years	\$90/kWh	\$500/m <sup>2</sup>	88-90% at 20mA/cm <sup>2</sup>	22.8-43.1 Wh/L	500W/Wm <sup>2</sup>
Zinc-Bromine <sup>TM</sup>	>20 years	\$15-\$20/kWh	\$500/m <sup>2</sup>	82% at 20mA/cm <sup>2</sup>	60-70Wh/L	70W/Wm <sup>2</sup>
Lithium-Lithium Iron Phosphate <sup>TM</sup>	>10 years	\$40/kWh	\$10-\$20/m <sup>2</sup>	90%	87Wh/L	328W/Wm <sup>2</sup>

  

**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

  

Profit per Year
\$205,000
\$2,460,000
\$5,280,000
\$11,040,000
\$23,040,000
\$32,400,000
\$69,600,000

Salgenx Tech Report

innovation and meeting the world's increasing energy storage needs.

As the demand for renewable energy storage solutions continues to soar, wind farms in Denmark and the Netherlands emerge as prime locations for grid-scale battery production. Salgenx recognizes this opportunity and aims to capitalize on the market demand for large orders of grid-scale batteries, which the current backlog indicates are not being met. The renewable wind and solar industry demand represents only the tip of the iceberg, and Salgenx is well-positioned to address this immense potential by offering licensed production anywhere in the world.



Denmark Wind Turbine

Greg Giese, a spokesperson for Salgenx, emphasized the advantages of salt water redox flow batteries, stating, "This represents a huge opportunity for salt water redox flow batteries to capitalize on the ongoing market demand for large orders of grid-scale batteries. The backlog suggests there is a demand which is not currently being met. It is just the tip of the iceberg for the renewable wind and solar industry demand." Salgenx's innovative technology offers significant benefits beyond energy storage, including desalination capabilities and the production of graphene as a byproduct during charging.

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This represents a huge opportunity for salt water flow batteries to capitalize on the ongoing demand for large orders of grid-scale batteries. The backlog suggests demand far exceeds supply.”

*Greg Giese*

While acknowledging the success of Tesla's Megapack as a groundbreaking first-to-market product, Giese emphasized

the limitations of its functionality. "While the [Tesla Megapack](#) is an amazing first-to-market product, it's a one-trick pony. The salt water battery has the ability for enhanced benefits, including desalination and producing graphene as a byproduct of charging," he stated.

With a clear vision for the future of grid-scale batteries and the ability to meet evolving market demands, Salgenx is ready to revolutionize the energy storage industry. Their salt water flow battery technology offers unique advantages and aligns perfectly with the increasing requirements of utility peaker plants and renewable energy installations worldwide.

Salgenx will be releasing its highly anticipated Salt Water Redox Flow Battery Technology Report

today. This comprehensive report offers in-depth insights into the dynamics of grid-scale flow batteries, covering crucial aspects such as economics, efficiency, and deployment strategies.

For more information about Salgenx and their innovative salt water flow battery technology, please visit their website at <https://salgenx.com>.

About Salgenx and [Infinity Turbine LLC](#):

Salgenx is a pioneering company focused on developing and commercializing advanced salt water flow battery technology. With a commitment to sustainable energy solutions, Salgenx aims to revolutionize the energy storage industry by offering high-performance grid-scale batteries that not only provide reliable power but also deliver additional benefits such as desalination and graphene production.

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