



salgenx-saltwater-energy-storage-market

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Market for Grid Scale Batteries Favoring Saltwater over Lithium Based Batteries

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The Market for Grid Scale Batteries in Energy Storage

The global grid-scale battery market is experiencing rapid growth. In 2023, the market was valued at approximately USD 6.82 billion and is projected to reach around USD 84.07 billion by 2032, with a compound annual growth rate (CAGR) of 32.2%. This surge is driven by the increasing demand for energy storage solutions, particularly to support the integration of renewable energy sources such as wind and solar into power grids.

Tesla has been significantly ramping up production of its Megapack energy storage systems. In 2023, Tesla deployed almost 15 GWh of battery energy storage, which is a 125% increase from the previous year. In the first half of 2024, Tesla deployed a record-breaking 9.4 GWh of energy storage in Q2 alone, indicating rapid growth in this segment.

Tesla's energy business, primarily driven by Megapack sales, generated \$1.6 billion in revenue in Q1 2024, with projections that energy storage could represent 15-21% of Tesla's overall revenue in the coming years. Tesla currently produces Megapacks at its Lathrop, California, factory with an annual capacity of 40 GWh, and plans to double that capacity with a new factory in Shanghai.

At the current pace reported by the Tesla Earnings Report in October 2024, they are expected to produce up to 10,400 Megapacks per year by 2025. The demand for these types of batteries is incredible.

In November 2024, Tesla just announced it has produced 10,000 Megapacks at the Lathrop facility.

2024 record double production and sales year-over-year.



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Current Demand for Grid-Scale Energy Storage is Bigger than Production

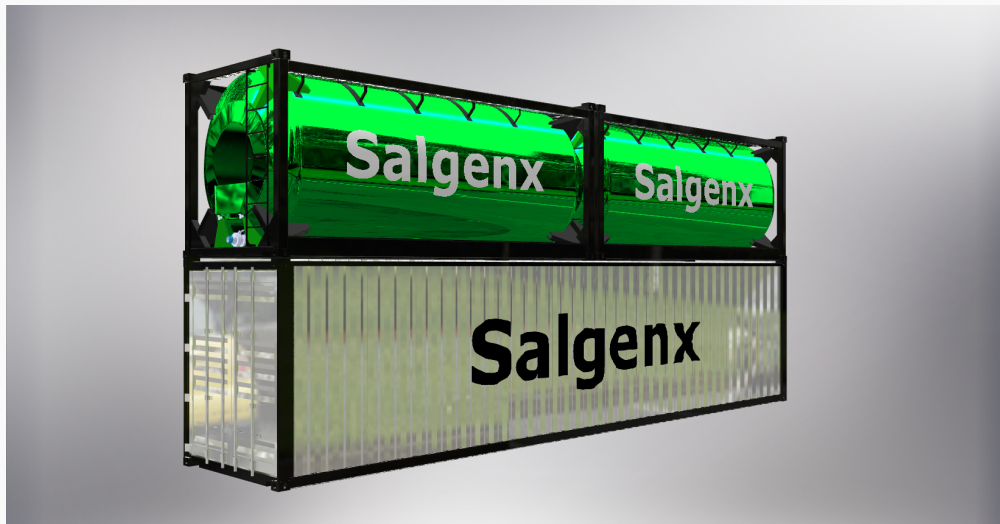
The demand for grid-scale energy storage batteries is huge. How do we know ? Let's look at the current demand:

- Huge wind turbine generators on land, windfarms in coastal regions, are turned off about 40 percent of the time since the grid can't accept their power
- Large solar PV generators are routinely turned off since the grid can't accept their power
- Belgium is developing 2.8 GWh grid based balancing BESS
- Tesla MegaPack (the leader in the industry) currently has a 52 week wait time for orders
- Tesla Lathrop Megafactory can produce 200 MegaPacks per week
- Tesla battery backlog is 10,400 orders with some huge Gigawatt orders going to Europe
- At a production rate of 200 Megapacks per week, with a selling price of \$950,000 to \$1 million per unit and a 30% profit margin, the profit per week would be about \$60,000,000.
- Tesla Megapack annual battery profit: 52 weeks x \$60 million = \$3.120 Billion

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The Opportunity to Build and Sell a Grid-Scale Sodium Flow Battery and Make \$600,000 Income Per Day with a Production of only 2 Batteries Per Day

License to manufacture the batteries and ship anywhere in the world.

We can provide you with customers through our website and network of pre-existing customers.

While we continue to develop and enhance the saltwater battery features together, you deploy to the market and take profits.

Uses standard shipping containers.

The only fabrication is for the electrolyzers.

Assembly is connecting (plumbing) large liquid bulk storage containers to a 40 ft. hi-cube shipping container which houses the electrolyzers. Flow is maintained by simple circulation pumps. Liquid pumping technology is simple, easily monitored and maintained. AI can optimize the battery charging and discharge (including remote monitoring).

Electrolyzer stacks can be configured at 48V DC or any custom DC voltage for direct use, or via an inverter for AC use.

Starting with production of even just one Salgenx 3000 kWh battery pack per week could result in profits of \$1,200,000 per month.

Sell these grid-scale batteries to AI Data Centers (there are 10,000 around the world and increasing every year) and Crypto Bitcoin mining operations. Most of these Data Centers need 40-150 MW of power. That is 67- 250 of the Salgenx 3,000 kWh (600 kW delivered) per facility.



Now is the Best Time to Manufacture Grid Scale Flow Batteries

Salgenx offers salt water flow battery licensing which allows manufacturing large grid scale batteries using modular shipping containers.

MADISON, WISCONSIN, USA, January 4, 2023 /EINPresswire.com/ -- With the advent of the huge \$35/kW tax credit which is available until 2029 for battery manufacturing and sales in the USA, it is an advantageous time to think about [flow battery](#) manufacturing using modular shipping containers.

The Salgenx build license is available for manufacturing which allows access to the tax credits which can be sold to an unrelated party.

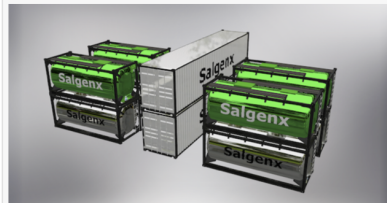
Salgenx already has groups who wish to distribute completed salt water flow batteries that are provided to license holders.

The Salgenx salt water redox flow battery uses two separate shipping container tanks of electrolytes, and when combined over electrodes, can store or discharge energy. The simplicity of the concept is the separation of the liquid electrolytes, one of which is salt water. Perfect for remote energy or large scale storage for wind and solar power, just like the Tesla [Megapack](#). In many areas, the wait time for the Megapack is up to two years, and uses expensive and flammable Lithium.

Not only is the Salgenx flow battery scalable, but it's also inexpensive. The cost of the electrolytes is less than five dollars per kilowatt. Vanadium and Bromine flow systems require an expensive membrane. Alternatively, most of the salt water flow battery and liquid electrolyte can be



Salgenx S3000 Salt Water Battery Energy System



Salgenx S12MW 12,000 kWh Grid Scale Energy Storage Battery

