

7/26/2024



salgenx-saltwater-flow-battery-licensing

+1 608-238-6001 (Chicago [TEL]
greg@salgenx.com [Email]

Salgenx

Saltwater Flow Battery Technology Licensing



This webpage QR code

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Saltwater Flow Battery Technology Licensing from Salgenx by Infinity Turbine LLC.

PDF Version of the webpage (first pages)

Unlimited License Fee

Unlimited Manufacturing Opportunity:

We offer a pricing structure based on your specific application for unlimited manufacturing. This pricing includes no royalties and eliminates the need for tracking or reporting.

To inquire about the pricing for territory or exclusive options, please feel free to contact us via email or phone.

Our new cathode materials can do the following:

- Self-healing electrode
- Self-optimizing material
- While charging, the system will automatically enhance itself and build conductivity

This system is revolutionary, and the only type of battery that can accomplish these tasks automatically while in use.

We use artificial intelligence and supercomputers to formulate, assess, verify, and forecast self-assembling and self-healing flow battery electrodes.

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License to Manufacture and Sell

We are pleased to announce that the saltwater battery technology is now available for licensing. This innovative system features two electrolyte tanks, with one specifically designed for saltwater (brine RO effluent, salars, seawater, and more). Note: for the saltwater, you technically do not need a input tank, for example the process could use the Reverse Osmosis as a direct input.

Notably, this technology operates without the need for a membrane.

By obtaining this license and leveraging our expert guidance, you have the opportunity to pioneer the commercial deployment of this groundbreaking technology. Our team specializes in saltwater flow batteries and will collaborate closely with your own team to optimize your core offerings according to the specific needs of your customers.

License Fee Schedule Based on Cathode Materials and Cell Type

Licensing is based on type of cathode materials and process (note that some of these are still under development):

- A. NTP Blend Cathode: Original research from labs used NTP blend.
- B. Vermiculite Blend Cathode: Verified working as of 22 June 2024.
- C. Zinc Ion Vermiculite: Higher energy density with highly recyclable ingredients. Hybrid Zinc cells have the option in-situ flow circulation and do not require large separate liquid holding tanks. We are working on putting the entire cell into a 55 gallon (208 liter) drum (including liquid and electrolyzer as one system).
- D. Potassium Blend Cathode: Using potash or mining tailings as ingredients.
- E. High Energy Density Hybrid Zeolite Materials.
- F. Other:
 - Ionic Liquid Cathode
 - Graphene Production Cathode Processing
 - Graphene production: Sand method
 - Desalination

More development pending.

Please contact Salgenx for pricing. Unlimited build license for any size. No royalties.

**Includes: **

- Schematics for plumbing and wiring together multiple tank and dry containers for battery infrastructure.
- Components with supplier lists.
- Advanced and cost-effective cathode materials for larger-scale production (recipies | methodology | manufacturing process concepts | electrode types).
- Advanced electrolyzer design options for larger-scale production.
- Low-cost electrolyzer design options using 55 gallon drums.
- Low-cost 3D printing of concrete liquid storage facilities concepts and methodology (including automated methods).
- Low-cost graphene coated sand for higher structural concrete structures (concepts | recipies | methods).
- Six months of support from our chemical engineer and electrical engineer.
- Full supplier list for all components and anode/cathode materials.
- Updates for six months.

**Exclusive Options Available: **

- Territory selection. Renewable on a yearly basis.
- Market specialization.

Please note that the initial purchase includes updates for the first 180 days after the delivery date. After that, you have the option to purchase annual updates.

How to buy a license

Our approach involves the development of cutting-edge technology followed by licensing to builders and manufacturers, enabling us to rapidly introduce new tech into the market ahead of others. This agile strategy allows us to move at the speed of light in bringing innovation to the forefront.

First Step: Purchase the Salgenx Technology Report. This allows you to de-risk the license fee.

It's worth noting that our saltwater flow battery represents a groundbreaking advancement as the first large-scale technology of its kind to enter the market.

If you would like to purchase Salgenx and be the main competitor for the Tesla Megapack, please email for details. We have a customer database with over \$1.2 billion of customer pre-orders.

Available only to full license buyers with country exclusive, you may now patent within that country you have an exclusive. Salgenx (Infinity Turbine LLC) must be listed on the patent along with your team.

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Salgenx Technology Readiness Level Graph

Salgenx has achieved a Technology Readiness Level (TRL) at or above 4, as indicated by NASA's readiness level graph.

Our objective in technology licensing is to collaborate closely with the licensee in order to advance the technology to TRL 6 and above, tailored to the specific system model configuration required for the desired power and voltage in the customer application.

The Licensee is responsible for progressing from TRL 6 to TRL 9, at which point the technology reaches the Manufacturing Readiness Level (MRL). This is the level of a commercial product.

The TRL development of other cathode materials, graphene production, TES, ionic fluids, and more is available from Salgenx.

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Deliverables

Includes:

A: A design for a 3000 kW saltwater flow battery utilizing tank shipping containers or tank trailers (compatible with any liquid-holding tank). The S6000, S12MW, and S18MW are scalable variants derived from the S3000 design. The S3000 features a rack-mounted electrode stack (RAID) and incorporates a command and control system design.

B: Comprehensive system design and flow diagrams, including PID (Process and Instrumentation Diagrams), implemented using Filemaker database software. Covers liquid flow routing, electrode design and fabrication, assembly, and manufacturing strategies.

- Advanced and cost-effective cathode materials for larger-scale production (recipies | methodology | manufacturing process concepts | electrode types).
- Advanced electrolyzer design options for larger-scale production.
- Low-cost electrolyzer design options using 55 gallon drums.
- Low-cost 3D printing of concrete liquid storage facilities concepts and methodology (including automated methods).
- Low-cost graphene coated sand for higher structural concrete structures (concepts | recipies | methods).

C: Worldwide unlimited build license (exclusive territory option available). Countries are excluded if they already have an exclusive.

D: Access to fee-based consulting services, startup assistance, installation support, on-demand maintenance communication contracts, and more.

E: Updates provided for 180 days from the purchase, covering electrode and system enhancements. Additional updates available as an option.

F: Yearly subscription fee for design updates, including product enhancements and other improvements.

G: Supplier lists for components.

H: QR Code-based Filemaker database enabling on-demand purchase of consumables, such as electrode components and catalysts.

I: Consideration of both in-house manufacturing and contractor-supplied parts for assembly strategies. Note: Utilizing contractors for part assembly may impact tax credits.

J: Cogeneration strategies incorporating heat pump capacities for simultaneous thermal storage (currently under development, to be included in yearly updates).

K: Parts list available for purchase from Infinity Turbine LLC, including electrolyzer materials and fully assembled electrodes.

Terms:

This licensing is offered by Infinity Turbine LLC (Salgenx is a division of Infinity Turbine LLC).

Licenses are strictly for the purchaser's use and cannot be repackaged or resold unless explicitly stated in the License Agreement. A NDA is signed to not release proprietary information.

Access to the database files requires Filemaker software, compatible with Windows, Mac, and IOS devices. All Filemaker Solutions are written and coded on a Mac and not tested on Windows machines.

Note: A comprehensive Agreement is signed between parties which specifically details the Deliverables and responsibilities of seller and buyer.
