



Saltwater Flow Battery FAQ

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<https://infinityturbine.com/saltwater-flow-battery-faq-by-infinity-turbine.html>

Salt water battery FAQ



This webpage QR code

PDF Version of the webpage (maximum 10 pages)

What is a salt water battery ?

The Infinity Turbine (Salgenx) Saltwater battery is a flow battery system, which requires two large tanks that hold fluid electrolytes. One tank is dedicated to salt water (add NaCL to water). The saltwater tank may be used for thermal storage.

Fluids are circulated through electrodes, which regulate the input and output of electricity from the battery.

The battery does not use a membrane, which is common on a redox flow battery.

The absence of the membrane saves huge up front purchase costs, maintenance, and consumable expenses.

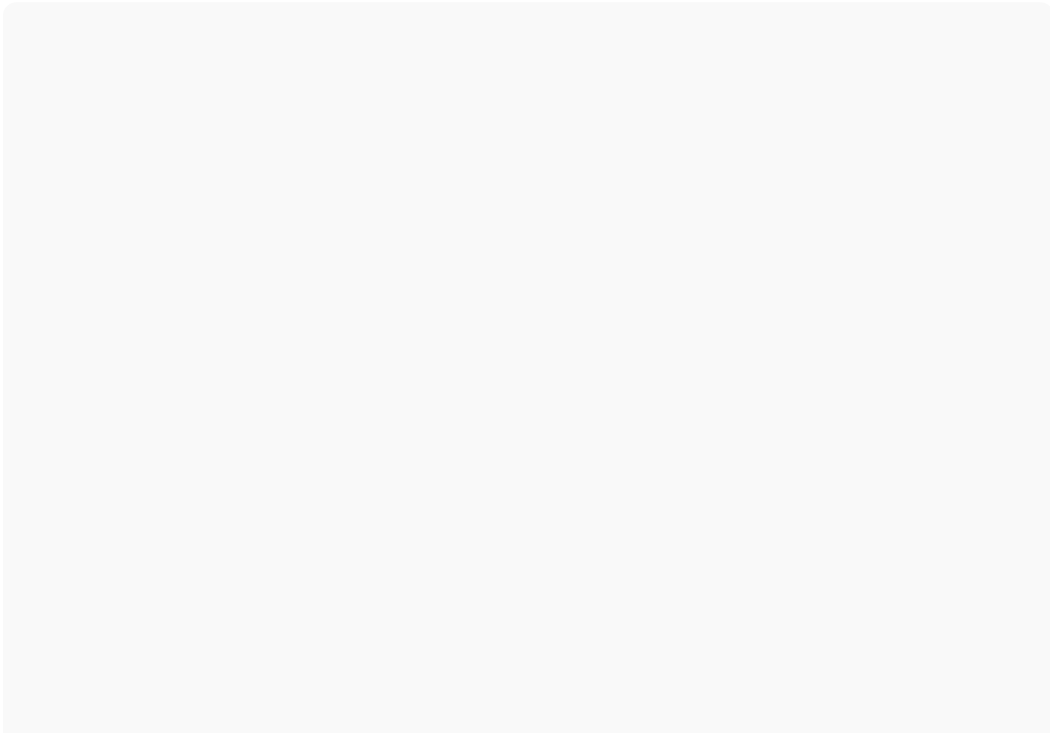


Does the salt water battery have other functions ?

The salt water battery may also be used for thermal storage on the salt water side. This can be done with heat exchangers, electric resistance heaters, or the preferred method of using a heat pump with high COP (coefficient of performance) which gives you 3x the efficiency of a typical electrical resistance heater.

Does the salt water battery have other functions ?

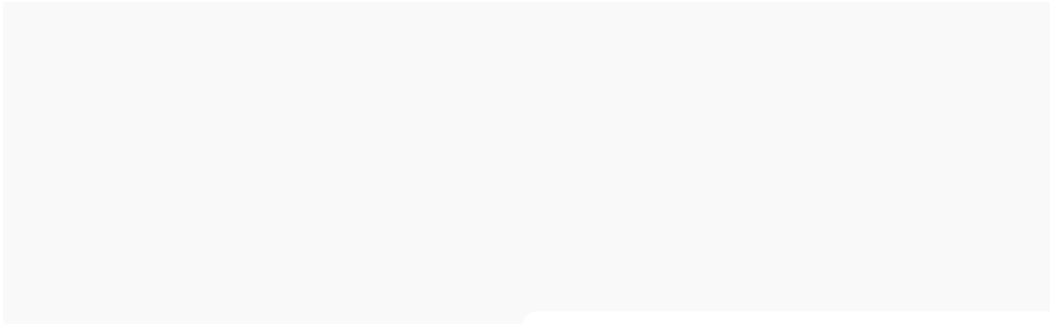
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Can you integrate Organic Rankine Cycle into the system ?

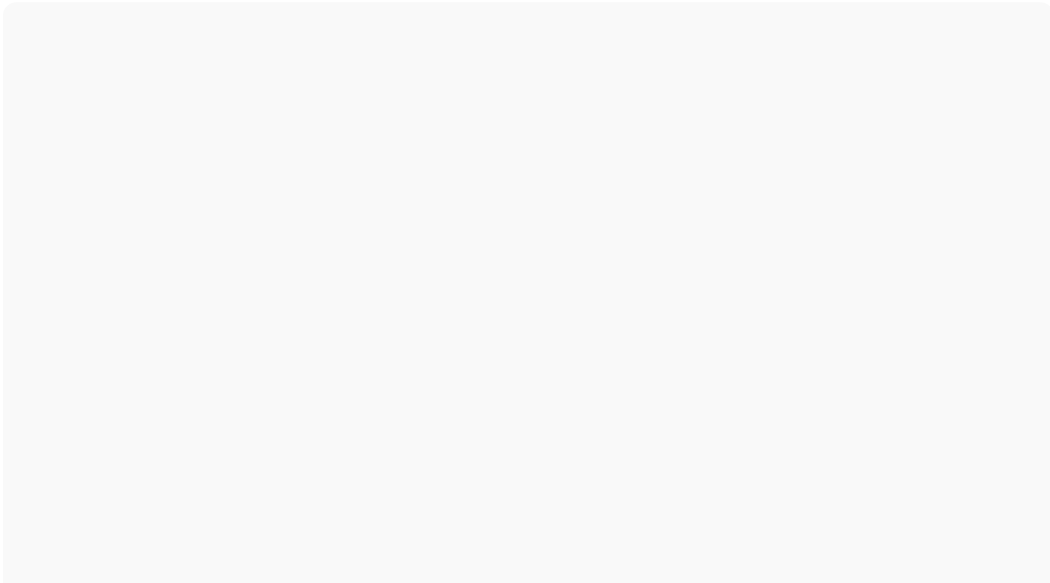
Yes. ORC can be integrated into the salt water side using the water as a cool water condenser (heats up the salt water), or as a heat pump.



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What is the heat pump strategy when using thermal storage ?

Similar to a hybrid hot water heater with integrated heat pump, a similar scenario can be deployed for the salt water side.






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What is the basic manufacturing licensing ?

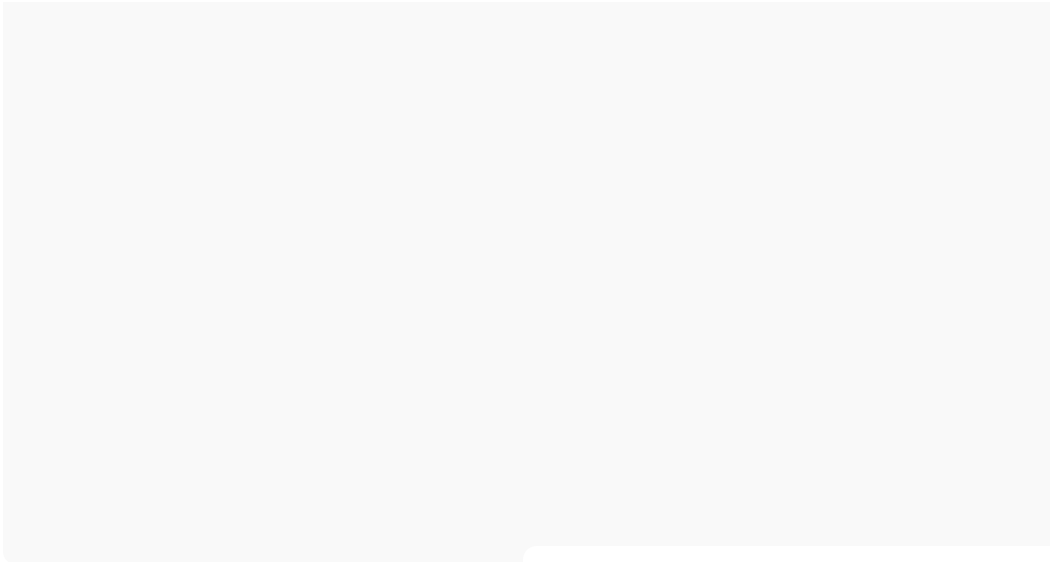
The basic manufacturing license is found at Salgenx.



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Are there battery production tax credits for the USA ?

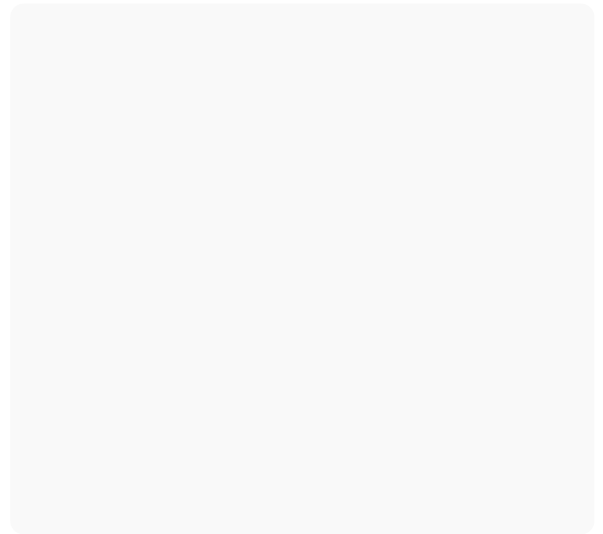
Yes. \$35 per kW.



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How routine is maintenance ?

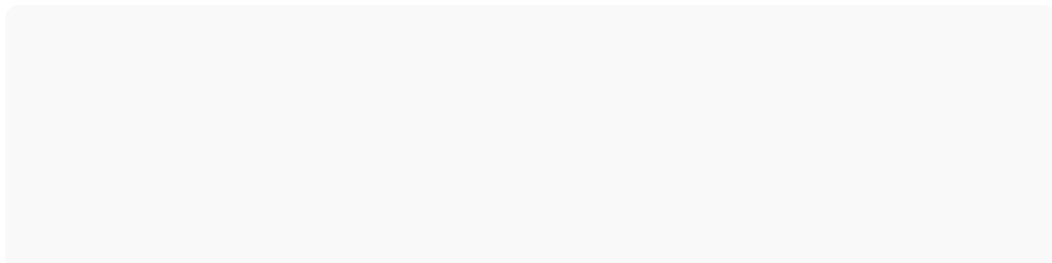
Electrolyte levels and electrode oxidation are the only items that routinely need to be checked. Sensors on pumps and charge rates allow active monitoring on a computer or smartphone, with optional notifications by email or text.



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How are parts or consumables ordered ?

A standard QR code is offered and on each component, which points you to a webpage and order options. Internet connection is required with your device (smart phone or computer).

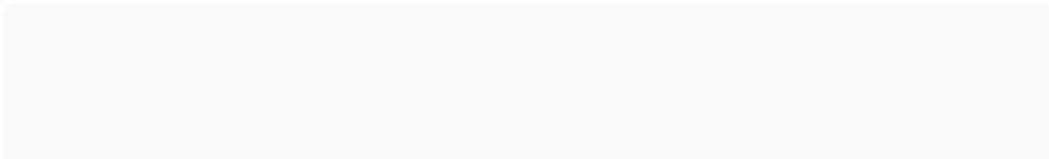




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Is output DC or AC ?

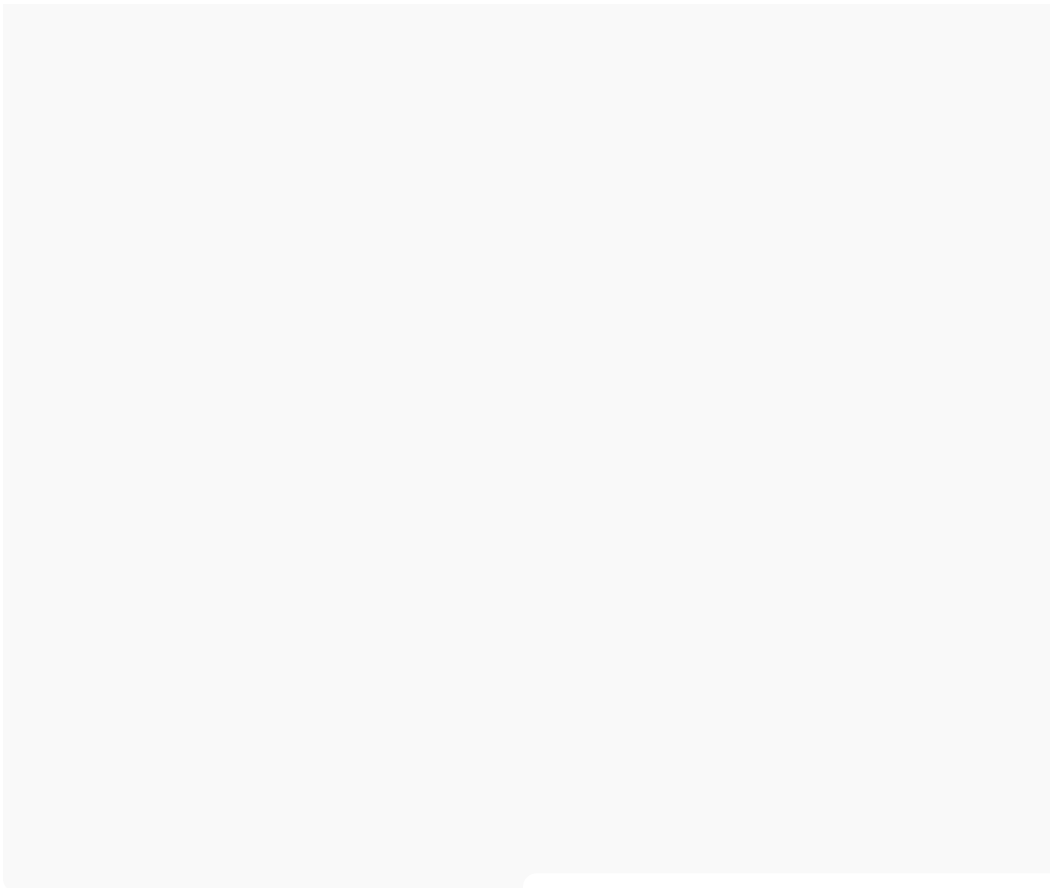
Currently output is DC, with optional AC switchgear.



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How much power can the battery store ?

3,000 kW.



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