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# charts

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Salgenx

Salgenx Assembly and Profit Charts



## Structured Data

This webpage QR code

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PDF Version of the webpage (first pages)

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## Revolutionizing Agriculture: The Salgenx Food Production Scale Battery System

The vegetable production module process is designed to optimize the cultivation of various vegetables using advanced vertical fogponics systems within the controlled environment of hi-cube shipping containers. This innovative approach leverages the precision and efficiency of fogponics, a method that uses nutrient-rich fog to hydrate and feed plants, ensuring optimal growth conditions without the use of soil. The integration of solar photovoltaic (PV) power for lighting and fog generation makes the process sustainable and energy-efficient.

Each module, encapsulated in a hi-cube shipping container, is meticulously configured to maximize space utilization and light distribution, ensuring that crops such as tomatoes, leafy greens, peppers, and microgreens thrive. The system's design facilitates year-round production, irrespective of external climate conditions, by maintaining ideal temperature, humidity, and light levels.

The process begins with the selection of crops based on their profitability, energy requirements, and compatibility with the fogponics system. Containers are then outfitted with LED lighting, fogponic irrigation systems, and solar PV panels to create a self-sustaining environment. Crop production is closely monitored and managed, focusing on optimizing yield and ensuring high-quality produce.

Finally, the Salgenx saltwater battery provides PV energy storage to power the LED lighting and pumps, while simultaneously desalinating seawater during charging.

The vegetable production module process represents a fusion of agricultural innovation and environmental stewardship, offering a scalable solution for urban farming and the production of fresh, locally sourced vegetables.

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