CASE STUDY: CANNABIS CULTIVATION WASTEWATER

ENCON THERMAL EVAPORATOR



SUMMARY

To minimize wastewater hauling costs and reduce its environmental footprint, Pure Greens of Salida, CO installed an ENCON Thermal Evaporator and is planning an ENCON Slurry Dryer installation in Q4 2021.

APPLICATION

RO reject, fertigation runoff, and sanitization wastewater at Pure Greens' industrial cannabis cultivation facility.



Learn more about

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P R O J E C T H I G H L I G H T S

Waste Streams

- Fertigation runoff
- ➢ RO reject
- Sanitization waste

Objective

Reduce wastewater disposal cost by minimizing volume of waste stream that is hauled away for disposal.

Solution

ENCON N66V4-260 evaporator; capable of evaporating 6,240 gal./day.

<u>Result</u>

Saving approx. \$10,000/week compared to hauling/disposal.



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CHALLENGE

Pure Greens' wastewater is considered industrial waste, so it is regulated as such. Neither surface nor sewer discharge is an option, so the wastewater must be recycled or disposed of. Pure Greens is utilizing an RO system to recycle a portion of the waste stream, the remainder including the RO reject would need to be hauled for disposal or evaporated.

SOLUTION

Due to the high cost of hauling for disposal, Pure Greens implemented an ENCON Thermal Evaporator system to minimize the wastewater volume by 95%.

Evaporator Specifics

ENCON Model: N66V4-260

Heat Source: Natural Gas

Evaporator Capacity: 260 gallons/ hour of evaporation

Evaporator Materials of Construction: 6% Molybdenum super stainless steel

Electrical: 480V, 3 phase, 60Hz

"it's been flawless... a very enjoyable experience with ENCON" -Scott Collins, Pure Greens

Process Layout

EVAPORATOR

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- 1. WW Collection tank
- 2. WW auto-feed to evaporator
- 3. 95% volume removed from waste via evaporation
- 4. Remaining 5% hauled away or dried

ENCON Evaporators 1368 Hooksett Road Unit #9 Hooksett, NH 03106 P: 603-624-5110 E: sales@evaporator.com





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