


**AN 18,000 COW DAIRY FARM INVESTS IN FUTURE-PROOF MANURE SOLUTION TO RECOVER VALUABLE RESOURCES AND REDUCE THEIR CARBON FOOTPRINT.**

 [https://youtu.be/6wm\\_QoU-efM](https://youtu.be/6wm_QoU-efM)

## RECOVERING WATER & PHOSPHORUS FROM DAIRY MANURE



### 500,000 GAL/DAY DIGESTED MANURE

Trident's system processes up to 500,000 gal/day of anaerobically digested manure from approx. 18,000 dairy cows.



### 150M GAL/YR. RECYCLED WATER

An efficient multi-step treatment captures 99% solids and returns clean, nutrient deplete effluent water to the farm's lagoons.



### 130,000 TONS/YR. NUTRIENT SOLIDS

The carbon based nutrients are concentrated to a stackable cake that contains up to 90% of the Phosphorus from the original manure slurry.



### 135,000 YARDS/YR. OF FIBER

Dedicated treatment for specific particle size allows the farm to recycle coarse fiber material and improve the organic matter of their fields.



### RNG & METHANE REDUCTION

The TNZ system integrates seamlessly with the farm's anaerobic digester, helps reduce CH<sub>4</sub> emission and improves the dairy's CI score.



### BIG SAVINGS

The farm's circular resource management substantially reduces the manure storage and handling costs.

## TRIDENT TNZ

**Case Study:** The client required a reliable manure treatment solution that meets their longterm sustainability goals and optimizes the dairy farm's waste related processes. Trident's industry-leading treatment process allows the farm to recycle 150 Million gal of water per year. High amounts of phosphorus are removed from the lagoons and can now be cost effectively land applied while meeting nutrient targets.

### System Benefits:

- Scalable process equipment
- Solids & liquid transfer system
- Automation & motor control center
- Integration of existing equipment

### Interested in more details?

Call 1-800-799-3740 or visit us online at [www.tridenttnz.com](http://www.tridenttnz.com).

