



GEODYN 15 TPH CIRCULAR SUSTAINABILITY & REVENUE INITIATIVE

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EXECUTIVE SUMMARY



The Resort has the opportunity to implement a world-class sustainability and revenue initiative centered on circular resource management. By installing the Geodyn 15 Ton-Per-Hour Total Waste Conversion System, the Resort will convert its daily organic waste streams — food scraps, plant material, and biodegradable refuse — into high-value agricultural commodities, specifically premium livestock feed pellets or organic fertilizer pellets.

This shift eliminates reliance on landfill disposal, reduces environmental impact, elevates ESG and green-tourism credentials, and creates a predictable, recurring revenue stream.

The Geodyn System operates with no combustion, no smoke, and no odor. Through indirect radiant heat processing, material becomes fully sterilized and market-ready in under 30 minutes, producing a stable, value-rich output suitable for sale or internal reuse. The system is permitted in California — one of the most environmentally regulated jurisdictions in the world.

This initiative allows The Resort to move confidently toward a fully circular and regenerative operational model, reflecting the values of the modern luxury traveler: wellness, nature stewardship, and environmental accountability.





STRATEGIC VALUE TO THE RESORT

IMPACT CATEGORY	BENEFIT
<i>Environmental Leadership</i>	Eliminates landfill dependency; significantly reduces waste footprint
<i>Brand Positioning</i>	Establishes The Resort as a regional leader in sustainability-driven luxury
<i>Financial Performance</i>	Creates strong recurring revenue through saleable agricultural commodities
<i>Guest Experience</i>	Aligns with wellness tourism, sustainability culture, and experiential authenticity
<i>Regulatory Alignment</i>	Meets and exceeds environmental standards while reducing long-term liability

This project positions The Resort as a benchmark sustainability destination in the Caribbean.





SYSTEM OVERVIEW

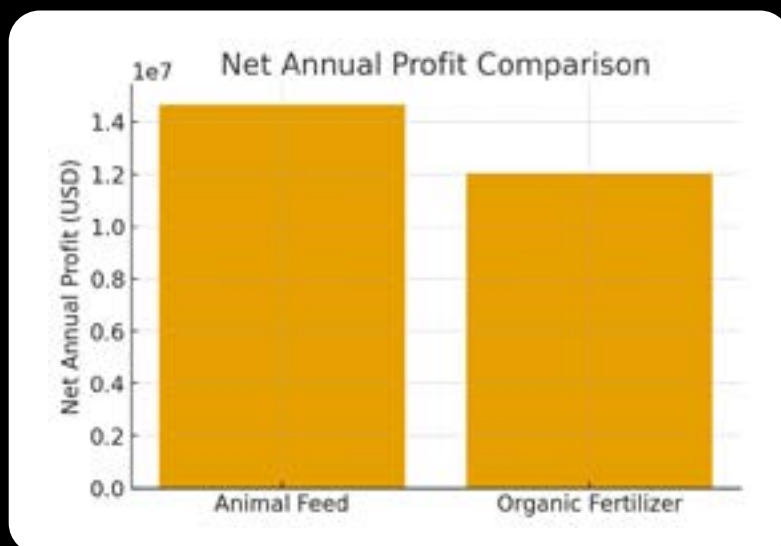
SYSTEM CAPABILITY

SPECIFICATION

<i>Input Capacity</i>	300 tons/day organic waste
<i>Output Capacity</i>	150 tons/day of finished pellets (feed or fertilizer)
<i>Processing Time</i>	< 30 minutes, continuous flow
<i>Pathogen Elimination</i>	100% sterilization via indirect radiant heat
<i>Emissions</i>	Zero incineration, zero odor, zero airborne emissions
<i>Water Circularity</i>	Water extracted during processing is purified for irrigation and operational reuse

FINISHED OUTPUT PATHWAYS

OUTPUT	MARKET APPLICATION	STRATEGIC OUTCOME
<i>Premium Livestock Feed Pellets</i>	Poultry, cattle, goat, and dairy producers	Highest revenue margin; rapid ROI
<i>Organic Fertilizer Pellets</i>	Regional agriculture; golf courses; landscape programs	Reinforces environmental identity and sustainability branding
<i>Soil Amendment Fluff</i>	Resort green spaces & ecological restoration	Visible environmental impact for guest experience
<i>Reclaimed Irrigation Water</i>	Gardens, golf courses, dust control	Reduces freshwater use and operational cost
Regulatory Alignment	Meets and exceeds environmental standards while reducing long-term liability	





CAPITAL REQUIREMENT (UPDATED)

ITEM	COST (USD)
<i>Geodyn 15 TPH System</i>	\$19,470,000
<i>Shipping, Installation, Training & Commissioning</i>	\$1,255,000
<i>Total Project Cost</i>	\$20,725,000

SCENARIO 1 PREMIUM ANIMAL FEED PELLETS

METRIC	VALUE
<i>Market Sale Price</i>	\$300/ton
<i>Annual Revenue (350 days)</i>	\$15,750,000
<i>Annual Operating Cost</i>	\$1,071,098.70
<i>Net Annual Profit</i>	~\$14,678,901.30
<i>Estimated Payback</i>	≈ 1.4 Years (adjusted for updated capex)

SCENARIO 2 ORGANIC FERTILIZER PELLETS

METRIC	VALUE
<i>Market Sale Price</i>	\$250/ton
<i>Annual Revenue (350 days)</i>	\$13,125,000
<i>Annual Operating Cost</i>	\$1,071,098.70
<i>Net Annual Profit</i>	~\$12,053,901.30
<i>Estimated Payback</i>	≈ 1.7 Years (adjusted for updated capex)
Animal Feed remains the highest-margin pathway and is the recommended launch strategy	



PHASED PRODUCTION STRATEGY

Phase One — Revenue Optimization

Begin production with Premium Animal Feed Pellets to accelerate capital recovery.

Phase Two — Brand Sustainability Signature

Introduce Organic Fertilizer Pellets for:

- The Resort's landscaping and gardens
- Partner farms and local eco-agriculture networks
- Branded sustainability storytelling

This creates both financial leadership and authentic environmental stewardship.

IMPLEMENTATION TIMELINE

PHASE	DURATION	DESCRIPTION
Site Survey & Engineering	2-4 WEEKS	Facility layout and intake analysis
Fabrication & Transoceanic Shipping	12-14 WEEKS	System manufacturing and delivery
Installation & Training	3-5 WEEKS	On-site deployment and operational handover
Commissioning & Launch	1 WEEK	System activated; full operation begins

Estimated Total Time to Operation: 20-24 Weeks Full-scale operations, ROI achieved.





By adopting the Geodyn 15 TPH Waste Conversion System, The Resort will:

- Lead the Caribbean luxury segment in climate-positive operations
- Reduce operational waste handling costs and landfill dependency
- Generate substantial recurring revenue streams
- Offer guests a visible, meaningful sustainability experience
- Move toward a fully circular resource economy model

Geodyn Solutions stands ready to provide full engineering, installation, operational training, and ongoing support.



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