



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 profit-generation initiative through circular resource management. By installing the Geodyn 15 Ton-Per-Hour Total Waste Conversion System, The Resort will transform its daily organic waste — including food scraps, landscaping biomass, and biodegradable materials — into high-value agricultural commodities such as premium livestock feed pellets and organic fertilizer pellets, while also generating tipping fee revenue from waste intake.

This integrated solution eliminates landfill reliance, reduces environmental footprint, strengthens ESG leadership, and establishes a new recurring revenue stream backed by long-term market demand.

The Geodyn system operates with no combustion, no smoke, and no odor, and sterilizes organic waste through indirect radiant heat — producing a stable, value-rich, pathogen-free product in under 30 minutes. The system is regulatory-approved in California, one of the most environmental-compliance strict regions globally.

The initiative positions The Resort as one of the Caribbean's sustainability-forward luxury destinations, aligning with discerning travelers who value wellness, ecological stewardship, and responsible hospitality.





STRATEGIC VALUE TO THE RESORT

IMPACT CATEGORY	BENEFIT
<i>Environmental Leadership</i>	Eliminates landfill dependency & methane-producing organic waste
<i>Brand Positioning</i>	Defines The Resort as a luxury eco-stewardship benchmark
<i>Financial Performance</i>	Generates three revenue streams (feed/fertilizer + tipping fees)
<i>Guest Experience</i>	Enhances authenticity, eco-wellness, and place-based storytelling
<i>Regulatory Alignment</i>	Meets and exceeds evolving environmental compliance requirements



SYSTEM OVERVIEW

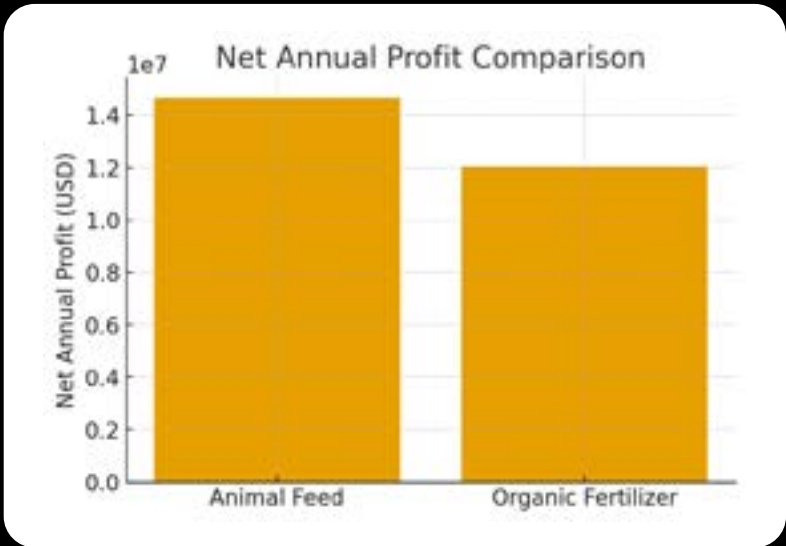
SYSTEM CAPABILITY

SPECIFICATION

<i>Input Capacity</i>	300 tons/day of organic waste
<i>Output Capacity</i>	150 tons/day of pellets (animal 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 burning, zero odor, zero smoke
<i>Water Circularity</i>	Extracted liquids are purified for irrigation and operations reuse

FINISHED OUTPUT PATHWAYS

OUTPUT TYPE	MARKET USE	STRATEGIC OUTCOME
<i>Output Type</i>	Market Use	Strategic Outcome
<i>Premium Livestock Feed Pellets</i>	Poultry, cattle, goat, and dairy producers	Highest revenue & fastest ROI
<i>Organic Fertilizer Pellets</i>	Farms, golf courses, orchards, and local agriculture	Reinforces environmental identity & brand narrative
<i>Soil Amendment Fluff</i>	Resort gardens, natural areas restoration	Visible guest-facing ecological benefit
Reclaimed Irrigation Water	Golf course, gardens, dust control	Reduces freshwater cost and improves water resilience



CAPITAL REQUIREMENT

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



REVENUE MODEL

(INCLUDING \$31/TON TIPPING FEES)

TIPPING FEE REVENUE

CALCULATION	ANNUAL REVENUE
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$300 \text{ tons/day} \times \$31/\text{ton} \times 350 \text{ days}$	\$3,255,000/year
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This revenue is generated before producing any sellable output — providing guaranteed cash flow stability.



FINANCIAL PERFORMANCE & ROI

SCENARIO 1 PREMIUM ANIMAL FEED PELLETS (RECOMMENDED LAUNCH PATH)

METRIC	VALUE
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Feed Sale Price	\$300/ton
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Product Revenue (150 tons/day × 350 days)	\$15,750,000/year
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Plus Tipping Fee Revenue	\$3,255,000/year
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Total Annual Revenue	\$19,005,000/year
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Annual Operating Cost	\$1,071,098.70/year
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Net Annual Profit	\$17,933,901.30/year
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Estimated Payback Period	≈ 1.16 years
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SCENARIO 2 ORGANIC FERTILIZER PELLETS

METRIC	VALUE
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Fertilizer Sale Price	\$250/ton
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Product Revenue (150 tons/day × 350 days)	\$13,125,000/year
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Plus Tipping Fee Revenue	\$3,255,000/year
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Total Annual Revenue	\$16,380,000/year
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Annual Operating Cost	\$1,071,098.70/year
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Net Annual Profit	\$15,308,901.30/year
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Estimated Payback Period	≈ 1.35 years
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ROI SUMMARY

OUTPUT PATHWAY	NET ANNUAL PROFIT	PAYBACK PERIOD	NOTES
<i>Animal Feed</i>	\$17.93M/year	~1.16 years	Maximum financial return
<i>Fertilizer Pellets</i>	\$15.31M/year	~1.35 years	Strong sustainability alignment





PHASED PRODUCTION STRATEGY

PHASE 1

REVENUE OPTIMIZATION

Begin with Premium Livestock Feed Pellets for fastest capital recovery.

PHASE 2

SUSTAINABILITY SIGNATURE BRANDING

Introduce Organic Fertilizer Pellets for onsite and community use, reinforcing The Resort's ecological identity



IMPLEMENTATION TIMELINE

STAGE	DURATION	SUMMARY
Site Survey & Engineering	2–4 WEEKS	Waste stream mapping, layout, permitting alignment
Fabrication & Shipping	12–14 WEEKS	System manufacturing & delivery
Installation, Training & Testing	3–5 WEEKS	On-site buildout + hospitality staff capacity setup
Commissioning & Operational Launch	1 WEEK	Full production activation

Total Time to Operational Sustainability: 20–24 Weeks





By implementing the Geodyn 15 TPH Circular Sustainability System, The Resort will:

- Become a Caribbean leader in climate-positive luxury hospitality
- Add strong recurring revenue supported by real market demand
- Reduce operating costs and landfill dependency
- Visibly enhance guest experience and ESG storytelling
- Transition to a regenerative, closed-loop resort model

Geodyn Solutions will provide full engineering, installation, training, and post-launch support.



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