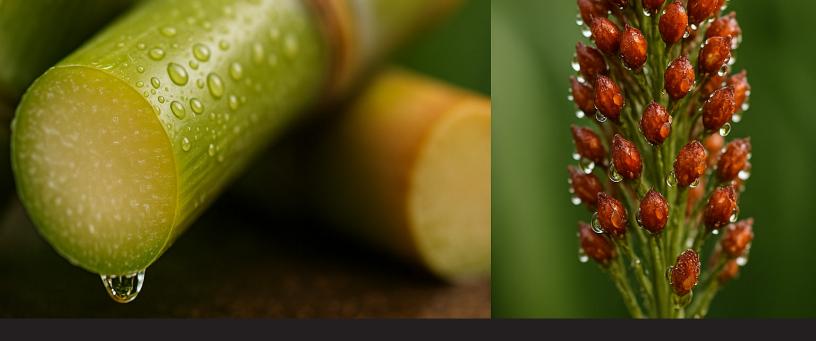


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EXECUTIVE SUMMARY

Geodyn Solutions, in partnership with Dominican stakeholders, proposes a \$250 million biofuel-to-power investment utilizing sugarcane and sorghum as the most efficient feedstocks for both electricity generation and ROI.

This project covers 12,500 acres in provinces like Azua and Barahona, with dual cultivation cycles of sugarcane (7,500 acres) and sweet sorghum (5,000 acres). The integrated system will produce:

- 50M+ liters of ethanol annually
- 100,000+ tons of bagasse pellets
- 50,000 tons of molasses
- High-value nutraceutical extracts
- 30 MW of baseload renewable power (240 GWh/year) via six 5 MW biomass turbines

KEY HIGHLIGHTS

- Total Investment: \$250M
- ROI: 30–40% average over 15 years
- Payback Period: 4.5 years
- Jobs: 650 direct, 950 indirect (1,600 total)
- Environmental Benefits: 150,000–200,000 tons CO□ offset annually
- Incentives: Up to \$80M from Law 57-07, CIF, World Bank, IDB
- Timeline: Groundbreaking Q2 2026 → Full Scale Q1 2028

PROJECT OVERVIEW

CULTIVATION

- **SUGARCANE**: 60–100 T/HA, ETHANOL YIELD 500–700 L/TON
- **SWEET SORGHUM**: 40–60 T/HA,

ETHANOL YIELD 400-600 L/TON

 YEAR-ROUND FEEDSTOCK ENSURES CONSISTENT POWER & ETHANOL PRODUCTION.





PROCESSING

- ETHANOL DISTILLERY: 50M LITERS/YEAR
- **PELLETIZING PLANT:** 100,000 TONS/YEAR BAGASSE PELLETS
- MOLASSES & NUTRACEUTICALS LINE FOR HIGH-VALUE BY-PRODUCTS

POWER GENERATION

- SIX 5 MW BIOMASS TURBINES
- LONG-TERM PPAS AT \$0.17/
 KWH WITH CDEEE
- 30 MW (240 GWH/YEAR) CONTRIBUTION TO DR'S RENEWABLE TARGETS

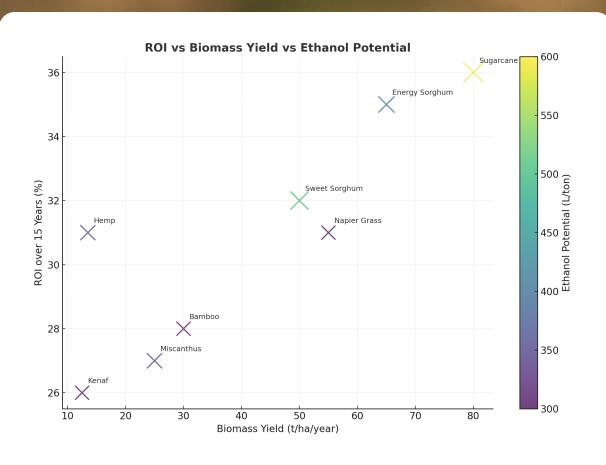




CO-PRODUCT VALUE CHAINS

CO-PRODUCT	ANNUAL VOLUME	REVENUE (\$M)	MARKET USE	
Bagasse Pellets	100,000 tons	25	CHP, exports	
Molasses	50,000 tons	15	Ethanol, feed	
Nutraceutical Extracts	2,500 tons	10	Health, wellness	
Carbon Credits	150,000 credits	12	Gold Standard/Verra	
Co-products generate ~40% of total ROI, reducing payback risk.				

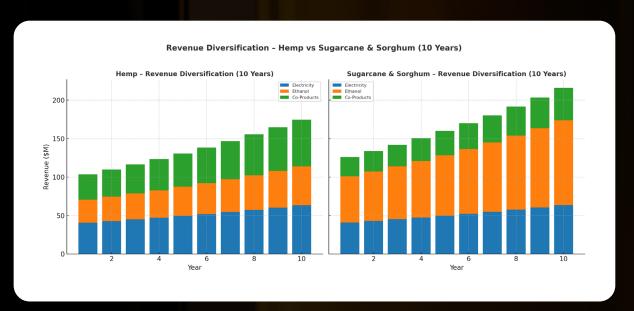
ROI & FEEDSTOCK COMPARISO



This chart shows Sugarcane, Sweet Sorghum, and Energy Sorghum outperforming other feedstocks in terms of ROI and ethanol potential, making them optimal for DR conditions.



REVENUE DIVERSIFICATION



- Electricity sales provide a stable baseline.
- Ethanol sales become the largest revenue stream.
- Co-products (pellets, molasses, nutraceuticals) steadily grow their contribution.

FINANCIAL OVERVIEW

CAPEX (\$250M)

- LAND: \$15M
- CULTIVATION SETUP: \$35M
- PROCESSING FACILITY: \$55M
- POWER INFRASTRUCTURE: \$75M
- R&D/CO-PRODUCTS: \$25M
- CONTINGENCY: \$45M





OPEX (~\$65M/YEAR)

- CULTIVATION: \$15M
- PROCESSING: \$25M
- POWER O&M: \$12M
- LOGISTICS/ADMIN: \$13M

REVENUE (YEAR 1 = \$136M; YEAR 10 = \$300M+)

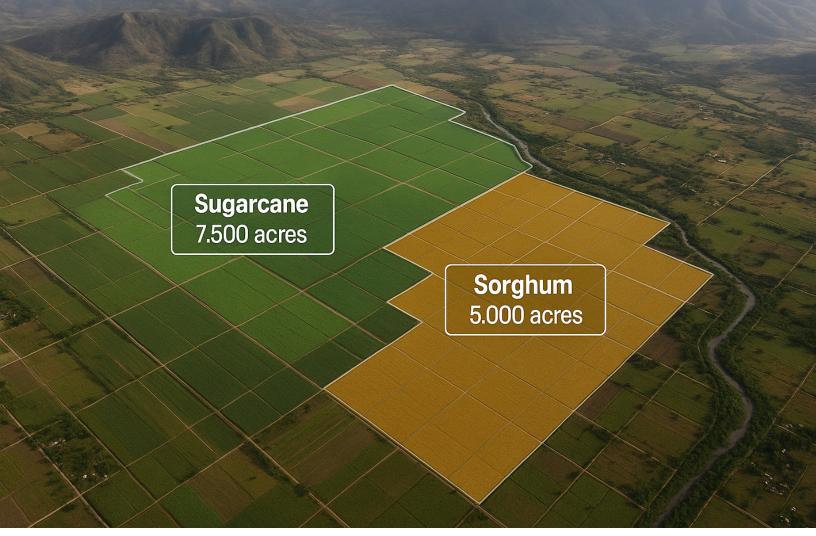
- ELECTRICITY: \$41M
- ETHANOL: \$60M
- CO-PRODUCTS: \$25M
- CARBON CREDITS: \$10M

NPV: \$520M @ 8%

IRR: 36%

PAYBACK: 4.5 YEARS





TIMELINE

PHASE	MILESTONES	ЕТА
Permits & Funding	Site selection, EIA	Q4 2025 – Q1 2026
Construction	Distillery, turbines, plant	Q2 2026 – Q1 2027
Pilot Ops	Initial planting & runs	Q2 – Q3 2027
Scale-Up	First harvest, grid tie-in	Q1 2028
Payback	Break-even achieved	Q3 2030







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