

#### \$500M HEMP-BASED BIOFUEL, POWER, AND PROCESSING INITIATIVE IN THE DOMINICAN REPUBLIC

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# STRATEGIC FIT FOR THE DOMINICAN REPUBLIC

The Dominican Republic faces high energy costs (\$0.20–0.28/kWh), heavy fossil fuel imports, waste management challenges, and strong demand for sustainable agriculture and exports. Hemp offers solutions:

- **Energy Security:** Locally sourced hemp biomass reduces dependency on imported fossil fuels.
- **Circular Bioeconomy:** Hemp waste and sargassum seaweed can be valorized into fertilizers, bioplastics, and construction materials.
- **Agro-Industrial Diversification:** Hemp textile and paper production strengthen Dominican exports beyond sugar, tobacco, and tourism.
- **Climate Commitments:** The DR's 2050 climate neutrality target aligns with hemp's ability to sequester 10–15 tons CO<sub>2</sub> per acre annually.



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### PROJECT COMPONENTS & BUDGET ALLOCATION

COMPONENT	BUDGET (USD)	KEY OUTPUTS
Hemp Cultivation (25,000 acres)	\$150M	300,000 tons biomass annually
Power Generation (2 × 25 MW plants)	\$120M	50 MW clean electricity (350 GWh/year)
Textile Plant (fibers → fabrics, rope, eco-textiles)	\$70M	20,000 tons fibers/year
Paper Mill (hurds → hemp paper & packaging)	\$70M	25,000 tons paper/year
Biofuel & Oil Processing Facility	\$50M	25M gallons hemp biofuel + oils/year
R&D, AI, Blockchain Carbon Credits	\$20M	Al crop optimization, GEO token for carbon credit exports
Training, Jobs & Community Development	\$20M	2,500 direct jobs, 4,000 indirect jobs
Total: \$500M		



### FINANCIAL PROJECTIONS



#### **REVENUES**

(Year 5 steady state):

Hemp Biofuel & Oils : \$150M
Electricity Sales (PPA) : \$100M
Hemp Textiles : \$200M
Hemp Paper & Packaging : \$120M
Carbon Credits & Byproducts : \$30M

Total Revenues: ~\$600M/year

#### **ROI & PAYBACK:**

• ROI : 20–25% over 10 years

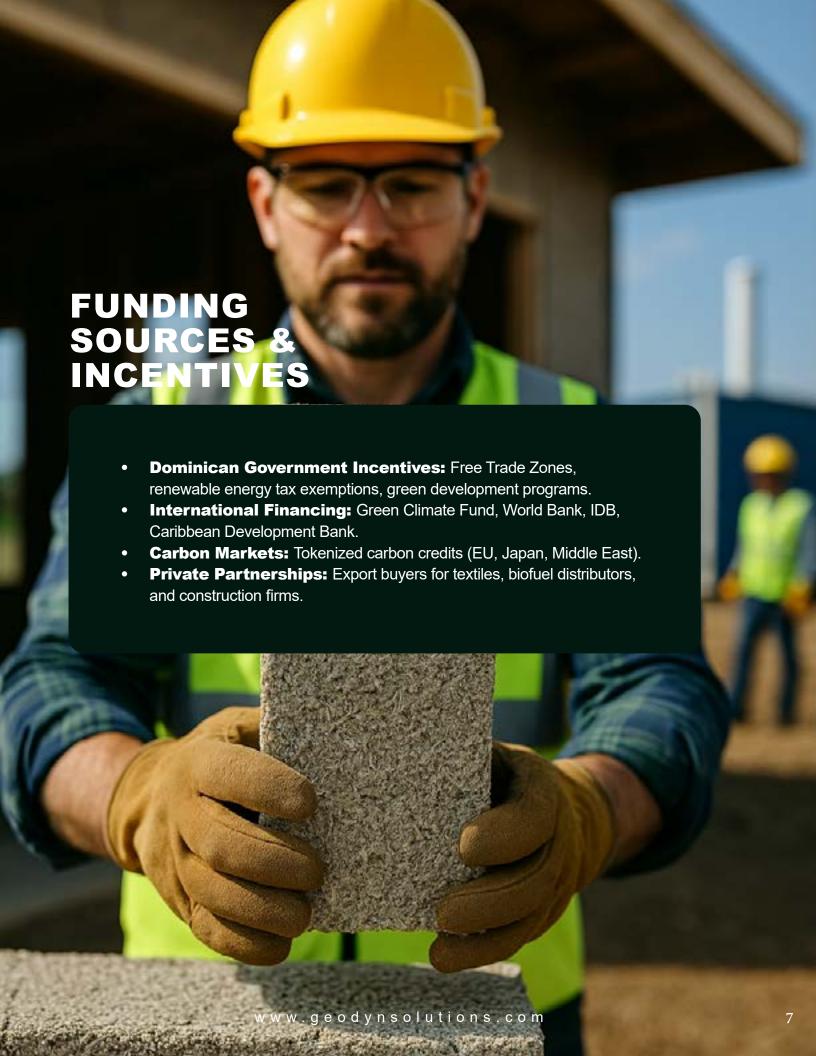
Payback : 5 yearsBreak-even : Year 3





## ECONOMIC & SOCIAL IMPACT

- CO<sub>2</sub> Reduction: 300,000 tons CO<sub>2</sub> offset annually.
- **Soil Regeneration:** Hemp roots improve soil, prevent erosion, and increase fertility for rotation crops like rice and cacao.
- Marine Protection: Integration with sargassum harvesting reduces coastal damage.
- Water Efficiency: Hemp requires 50% less water than cotton.





PHASE	TIMELINE	
MONTHS 0-6	<ul> <li>Feasibility, licensing, land acquisition, PPA negotiations.</li> </ul>	
MONTHS 6-18	Cultivation rollout, textile & paper plant construction.	
MONTHS 18-30	Commission power plants and biofuel facility.	
YEAR 3	Commercial operations, first export shipments.	
YEAR 5	Full-scale operations, ROI achieved.	









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# HEMP: NATURE'S TOUGHEST FIBER ON EARTH

It's said to have more than 50,000 unique uses.



#### CONCLUSION

THIS \$500M HEMP-BASED
BIOECONOMY PROJECT WILL
TRANSFORM THE DOMINICAN
REPUBLIC INTO A CARIBBEAN LEADER
IN RENEWABLE ENERGY, SUSTAINABLE
AGRICULTURE, AND ECO-FRIENDLY
EXPORTS. BY LEVERAGING HEMP'S
VERSATILITY, GEODYN SOLUTIONS
ENSURES ENERGY SECURITY,
CLIMATE RESILIENCE, ECONOMIC
DIVERSIFICATION, AND GLOBAL
COMPETITIVENESS FOR THE NATION.



# HEMP PAPER





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