

Smart · Sustainable · Clean · Energy

SOLID WASTE TRANSFORMATION FOR ENERGY PRODUCTION

Geographical Location of the Project

Antioquia - Huila - Tolima 5 Municipalities Colombia



Advantages of the Technology

- Waste processing without the need for sorting, including inorganic materials.
- CO2 capture for utilization and the generation of byproducts.
- Modular system, allowing scalability.

Executive Summary

Project basic data

- Transformation of 35,000 solid waste annually.
- Production of 2.100.000 № energy annually.
- Green plant: 18.600 tons/y mitigated.
- Production of 12.110 tons of pozzolans annually.



- 24/7 Operation.





Solid waste background Colombia
 Only 40% of landfills have a lifespan of more than 9 years. In 7 capitals: Bogotá, Bucaramanga, Ibagué, Cartagena, Pereira, Yopal, and Quibdó, where 3,140,000 tons are disposed of, their landfills have less than 3 years of operation remaining.
 Reduce the use of landfills. Achieve Sustainable Development Goal 11, one of its parts requires countries to develop instruments to promote waste prevention and valorization. Close open-air dumpsites. Encourage each municipality to have a Comprehensive Solid Waste Management Plan (PGIRS). Reduce greenhouse gas emissions by 20% by 2030.

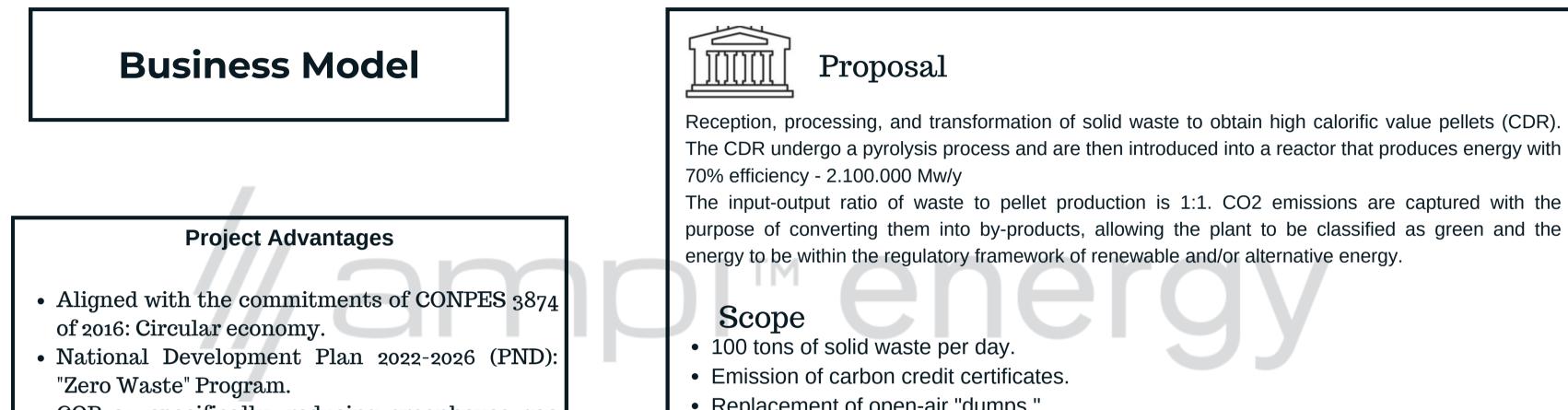
Advantages of the Technology

• Hazardous substances are bonded in a crystalline form (non-leachable).

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• COP 21; specifically, reducing greenhouse gas emissions by 20% by 2030.

• Replacement of open-air "dumps." • Integration of energy into the SIN (National Interconnected System).

Financial Data	Capex	100M USD	Contract period	30 Ye
	ROI	1.2 Years		
	IRR	104,68%	Interest Rate	9% E.

Executive Summary





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