

### 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   |
|---|
| <ul> <li>Only 40% of landfills have a lifespan of more than 9 years.</li> <li>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.</li> </ul>  |
|   |
| <ul> <li>Reduce the use of landfills.</li> <li>Achieve Sustainable Development Goal 11, one of its parts requires countries to develop instruments to promote waste prevention and valorization.</li> <li>Close open-air dumpsites.</li> <li>Encourage each municipality to have a Comprehensive Solid Waste Management Plan (PGIRS).</li> <li>Reduce greenhouse gas emissions by 20% by 2030.</li> </ul> |
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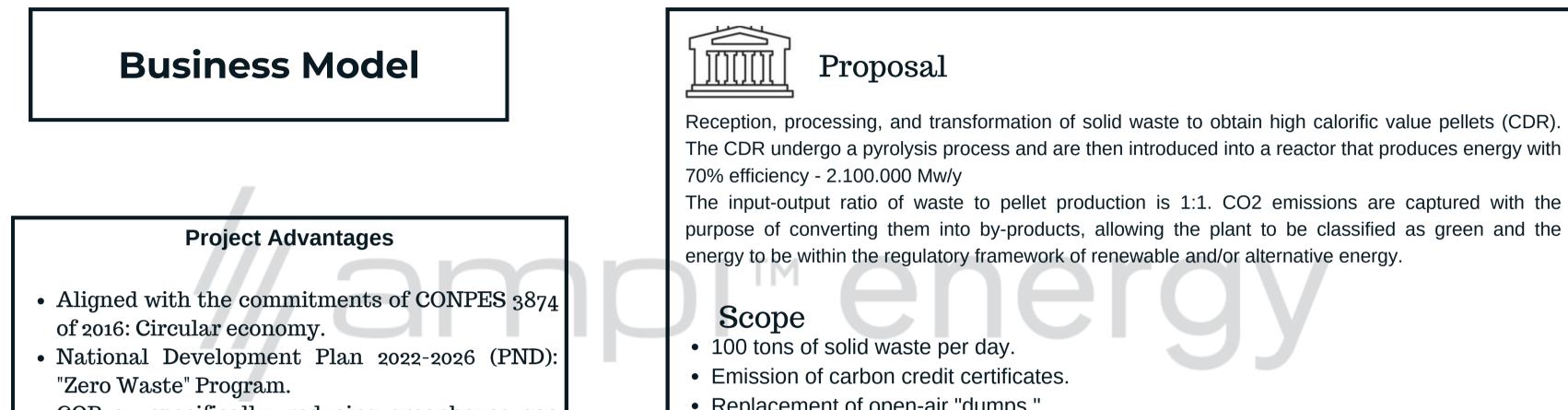
#### Advantages of the Technology

• 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. |

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