



Waste-to-Energy (WtE) Project for Praia

1. EXTRACTED DATA TABLE

Project Name:	Waste-to-Energy (WtE) Project for Praia, Cabo Verde
Location:	Praia, Municipality of Praia, Island of Santiago, Cabo Verde
Total Investment (EUR):	Estimated EUR 28–32 million.
Sector / Type of Project:	Integrated Waste-to-Energy (Solid Waste Management, Renewable Energy, Circular Economy)
Ancillary Projects:	Central Sorting/MRF, Anaerobic Digestion Unit, Incineration Unit, Pyrolysis Line, Composting Facility, Ash & Metal Recovery, SCADA Centre, Grid Interconnection, Community Programmes, Environmental Monitoring, Civil Works, Logistics Optimisation

2. NARRATIVE DESCRIPTION OF ANCILLARY PROJECTS

The project incorporates a central materials recovery facility for reception, sorting and pre-processing of waste. It includes an anaerobic digestion unit dedicated to organic material, a mass-burn incineration system for mixed waste streams, and a pyrolysis line for plastics and other suitable fractions. Complementary components include composting operations, ash and metal recovery systems, an integrated SCADA monitoring platform, grid-connection infrastructure, comprehensive civil-works development and enhanced logistics coordination. Community-integration initiatives further promote the formalisation of informal recyclers and reinforce stakeholder participation throughout the project.

3. DEFINED ROLES OF CRUNCHYGALAXY

Crunchygalaxy leads financing, structuring, EPC coordination, construction oversight, O&M supervision, regulatory compliance, ESG programmes, community integration, SPV structuring, stakeholder engagement, PPA negotiation, gate-fee structuring, and performance monitoring. It manages technical design, procurement, commissioning, long-term operations, and integration with national frameworks.

4. ONE-PAGE EXECUTIVE SUMMARY

The Waste-to-Energy (WtE) project for the City of Praia is an integrated waste-management and renewable-energy development designed to address rapidly increasing waste volumes, limited landfill capacity and high dependence on imported fossil fuels. It combines anaerobic digestion, mass-burn incineration and a pilot pyrolysis line, supported by a centralised materials recovery facility and digital monitoring systems.

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Praia faces a rapidly increasing waste stream that has already surpassed the capacity of existing disposal sites and continues to grow in line with urban expansion. With the vast majority of waste still directed to landfill, the city experiences significant environmental pressure, methane emissions, and public-health concerns. The proposed project substantially decreases reliance on landfill disposal, supports national clean-energy objectives, improves community health conditions, and reinforces energy security in an island context dependent on imported fuels.

The project requires a significant capital investment and is structured to ensure long-term financial sustainability through diversified income streams, including energy sales, service fees, material recovery and environmental-credit mechanisms. Its operating framework is designed for stable performance, with balanced cost structures and predictable cash flows over the concession period. The financial outlook supports an attractive return profile while maintaining resilience against fluctuations in local economic and energy-market conditions.

Ancillary infrastructures include sorting/MRF systems, a composting line, ash and metal recovery, SCADA monitoring, grid interconnection, community-integration initiatives and environmental KPI frameworks. The project provides strong impact potential: over 100 direct and 250 indirect jobs, formalisation of informal recyclers, improved public health, reduced methane emissions, and contributions to Cabo Verde's national climate commitments.

Crunchygalaxy serves as developer, EPC coordinator, financial structurer and long-term operator under a DBO concession. Recommended immediate actions include securing the municipal concession, finalising the PPA, completing licensing, launching EPC tenders, structuring finance, establishing the SPV and advancing pre-construction stakeholder programmes.

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