

Coal Gasification Slag Comprehensive Utilization Project Business Plan

Investment Institution Project Initial Review Pitch

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Preparation Entity: Huazhu Lvjian (Beijing) Technology Co., Ltd.

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01 Project Summary

Green Economic Engine Turning Waste into Treasure

Project Positioning: Large-scale Resource Utilization	Core Technology: Dual-line Parallel Process
Annual processing of 1 million tons of coal gasification slag, building a solid waste treatment benchmark, realizing a circular economy model of "complete utilization".	Adopting a combined process of "acid leaching line + glass-ceramic line", comprehensive resource utilization rate ≥90%, with high technical barriers.
Core Products: High-value-added Output	Market Potential: Dual Drive of Demand and Policy
Producing high-value products such as liquid polyaluminum chloride, solid polyaluminum chloride, white carbon black and glass-ceramic,■■■ the dilemma of low-end solid waste treatment.	Target market demand is strong, regional gap is significant, and it conforms to national green low-carbon policy direction, with long-term growth momentum.

Financial Highlights: High Return, Fast Recovery

Total Investment	Average Annual Net Profit	After-tax IRR	Payback Period
RMB 682 million	RMB 324 million	51.19%	3.05 years

02 Market Opportunity

Market Pain Points: Solid Waste Siege, Resource Waste

Serious Environmental Pollution

Traditional landfilling occupies a large amount of land, easily causing soil and groundwater pollution, with large ecological hidden dangers.

Serious Resource Waste

Coal gasification slag is rich in valuable elements such as aluminum and silicon. Direct abandonment is equivalent to wasting valuable mineral resources.

Huge Policy Pressure

The "dual carbon" strategy and solid waste comprehensive utilization policies are becoming stricter, forcing enterprises to carry out green transformation.

Market Opportunity: Policy Tailwind, Blue Ocean Market

Strong National Policy Support

The "14th Five-Year Plan" Circular Economy Development Plan clearly lists coal gasification slag as a key comprehensive utilization solid waste, encouraging the implementation of large-scale demonstration projects.

Strong Target Product Demand

Regional gap of liquid polyaluminum chloride reaches 480,000 tons/year, white carbon black annual growth 6-8%, glass-ceramic can replace imported high-grade stone, with broad market prospects.

Trillion-level Blue Ocean Market

With the improvement of environmental protection requirements and the enhancement of resource recycling awareness, the market scale of industrial solid waste resource utilization will continue to grow rapidly.

03 Solution

Innovative Process, Efficient Conversion

Dual-line Parallel Process Route

Acid Leaching Line: Coal gasification slag → Acid leaching → Solid-liquid separation → Polyaluminum chloride / White carbon black

Glass-ceramic Line: Coal gasification slag → Proportioning → Melting → Crystallization → Glass-ceramic

Core Technology Advantages

Comprehensive Resource Utilization Rate	Energy Consumption Reduction	Product Quality
≥90%	>20% lower than traditional process	Reaching domestic advanced level

04 Product Matrix

High-value-added, Diversified Layout

Liquid Polyaluminum Chloride	Solid Polyaluminum Chloride
High-efficiency water treatment agent, widely used in tap water purification and industrial sewage treatment fields, with significant purification effect.	Suitable for water treatment in complex industrial scenarios such as papermaking, printing and dyeing, and mining, characterized by low dosage and fast sedimentation.
White Carbon Black	Glass-ceramic
High-performance filler, used in tires, rubber, coatings and toothpaste industries, with continuously strong market demand.	Green and environmentally friendly new building material, can perfectly replace natural stone, widely used in high-grade architectural decoration and countertops.

05 Business Model

Clear Path, Stable Profit

Diversified Profit Sources

Core revenue comes from high-value-added product sales (polyaluminum chloride, white carbon black, etc.),■■ solid waste treatment policy subsidies, building dual guarantees.

Ultimate Cost Control

Using cheap coal gasification slag as the main raw material, combined with policy dividends, making overall production costs significantly lower than industry average, establishing price advantage.

Steady Market Strategy

Relying on location advantages to focus on the 200km core circle, signing long-term supply agreements with large enterprises to ensure the stability and continuity of sales channels.

06 Core Team

Professional Leadership, Rich Experience

Yang Maohong Chairman	Deng Funan Technical Director	Jing Peng Operations Director
20 years of industry experience, served in Zhongkuang Shanxi Energy Group, successfully led multiple industrial and mining projects.	Doctor of Engineering, 15 years of materials science R&D; experience, holds multiple patents in the solid waste resource utilization field.	10 years of enterprise production management experience, skilled in large-scale production operation and cost control.

07 Financial Forecast

High Return, Low Risk

Total Project Investment	Average Annual Revenue
RMB 681.89 million	RMB 1,260 million
Average Annual Net Profit	After-tax IRR
RMB 323.74 million	51.19%
Payback Period (excl. construction)	Break-even Point
3.05 years	23.30%

Risk Controllable: Sensitivity Analysis Results

Price Fluctuation Has Greatest Impact	Cost Fluctuation Not Sensitive	Strong Project Resilience
Product price is the most sensitive factor, but even if it drops by 20%, project IRR remains in the feasible range.	Fluctuations in construction investment and operating costs have little impact on project returns, with strong overall anti-risk capability.	Various indicators show the project has strong resilience and stability when facing market changes, with controllable risks.

08 Financing Plan

Win-win Cooperation, Creating Future Together

Financing Amount Plan
Planned financing RMB 480.592 million (accounting for 70.48% of total investment)
Core Fund Use
Mainly used for project construction investment (plant construction, equipment procurement) and initial working capital, ensuring stable project operation.
Investment Exit Mechanism
After the project matures, exit through equity transfer, industry M&A; or independent IPO, with expected rich returns.

Project Summary: High-quality Target with Outstanding Investment Value

Policy Fit: Strategically Consistent	Broad Market: Continuously Strong Demand
Deeply fits national circular economy and "dual carbon" strategy, with low policy risk, enjoying long-term policy dividend support.	Target product market demand is strong, with obvious regional advantages, has built relatively high competitive barriers, with huge growth potential.
Technology Leadership: Mature and Efficient Process	Rich Returns: Excellent Financial Indicators
Innovative process technology is mature, with high resource utilization rate, having significant cost advantages and technical moat compared to peers.	Financial indicators perform excellently, with short investment payback period and high internal rate of return, providing investors with stable and rich returns.

Looking Forward to Cooperation with You

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Thank You

Comments and Corrections Welcome

Construction Entity: Inner Mongolia Lvbaoxin Environmental Technology Co., Ltd.