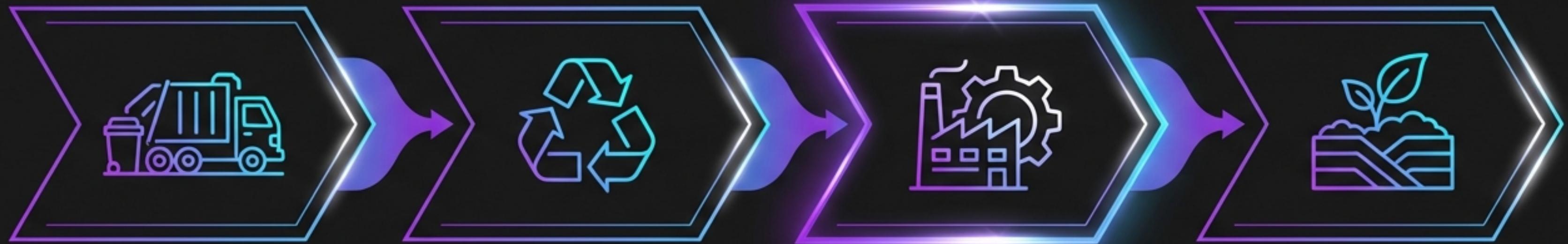


Turning Waste into Opportunity

Sustainable Solutions for a Cleaner Future

The Waste Management Ecosystem



Collection & Transportation

Gathering waste from households & industries.



Segregation & Recycling

Sorting biodegradable, hazardous, & recyclable materials.



Processing & Treatment

Composting & Pyrolysis (plastic-to-fuel) to create value.



Sustainable Disposal

Eco-friendly landfills or waste-to-energy.



VENTURE

NotebookLM



The Plastic Waste Problem: An Untapped Resource

Urban Overload

Cities generate significant non-recyclable plastic waste, contributing to pollution.

Infrastructure Failure

Existing systems are inadequate; waste ends up in landfills or waterways.

Toxicity

leads to emissions, soil contamination, and microplastics.



VENTURE

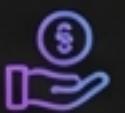
NotebookLM

Micro-Scale Pyrolysis for Maximum Efficiency



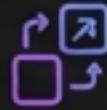
Optimized Scale

1-ton/day capacity designed for low Capex and micro-enterprises.



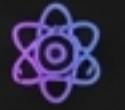
Ultra-Low-Cost Design

Locally sourced materials; simplified tech reducing import dependence.



Modular & Scalable

Easy expansion as demand grows; adaptable to market fluctuations.



Advanced Technology

Catalytic process maximizes fuel oil yield (60-70%) while minimizing emissions.



Engineering the Transformation



Feedstock

Non-recyclable plastic & sorting.

Shredding

Mechanical shredding into uniform flakes.

Catalytic Pyrolysis

Heating at 350-500°C in oxygen-free reactor.

Separation

Gases condense into oil; Syngas captured.

Output

Fuel Oil, Carbon Char, Syngas.

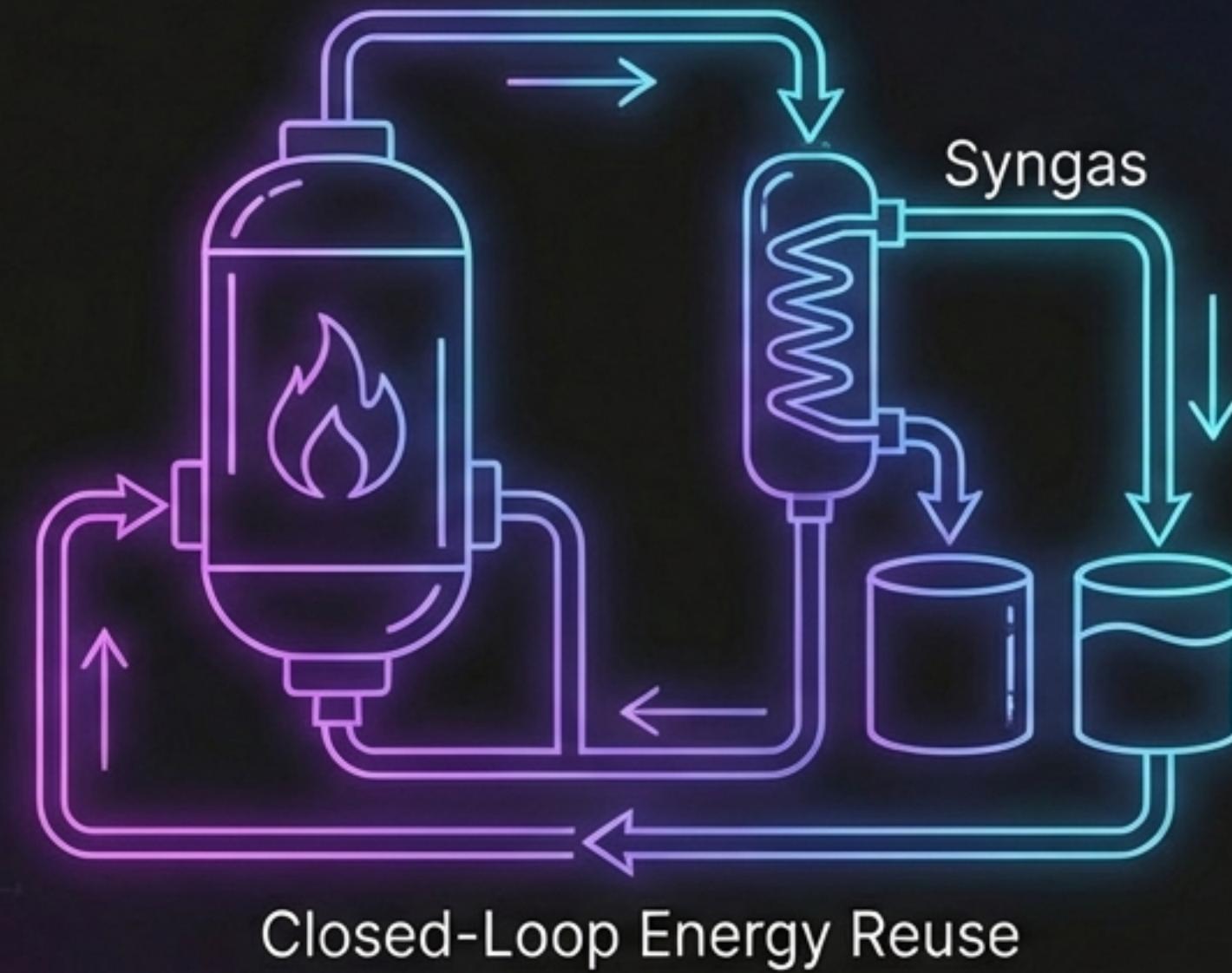
Unique Advantages Over Alternatives

	Our Pyrolysis	Mechanical Recycling	Incineration
Plastic Type	✓ Multi-layered & dirty	✗ Clean/sorted only	● All types
Output Value	✓ High Value Oil & Char	● Low-grade pellets	● Ash/Energy
Env. Impact	✓ Low emissions	✓ Low	✗ High CO2/Toxic
Scalability	✓ Micro-friendly	● Limited	✗ Requires Large Scale

The Catalytic Advantage



Operating Temp:
350-500°C



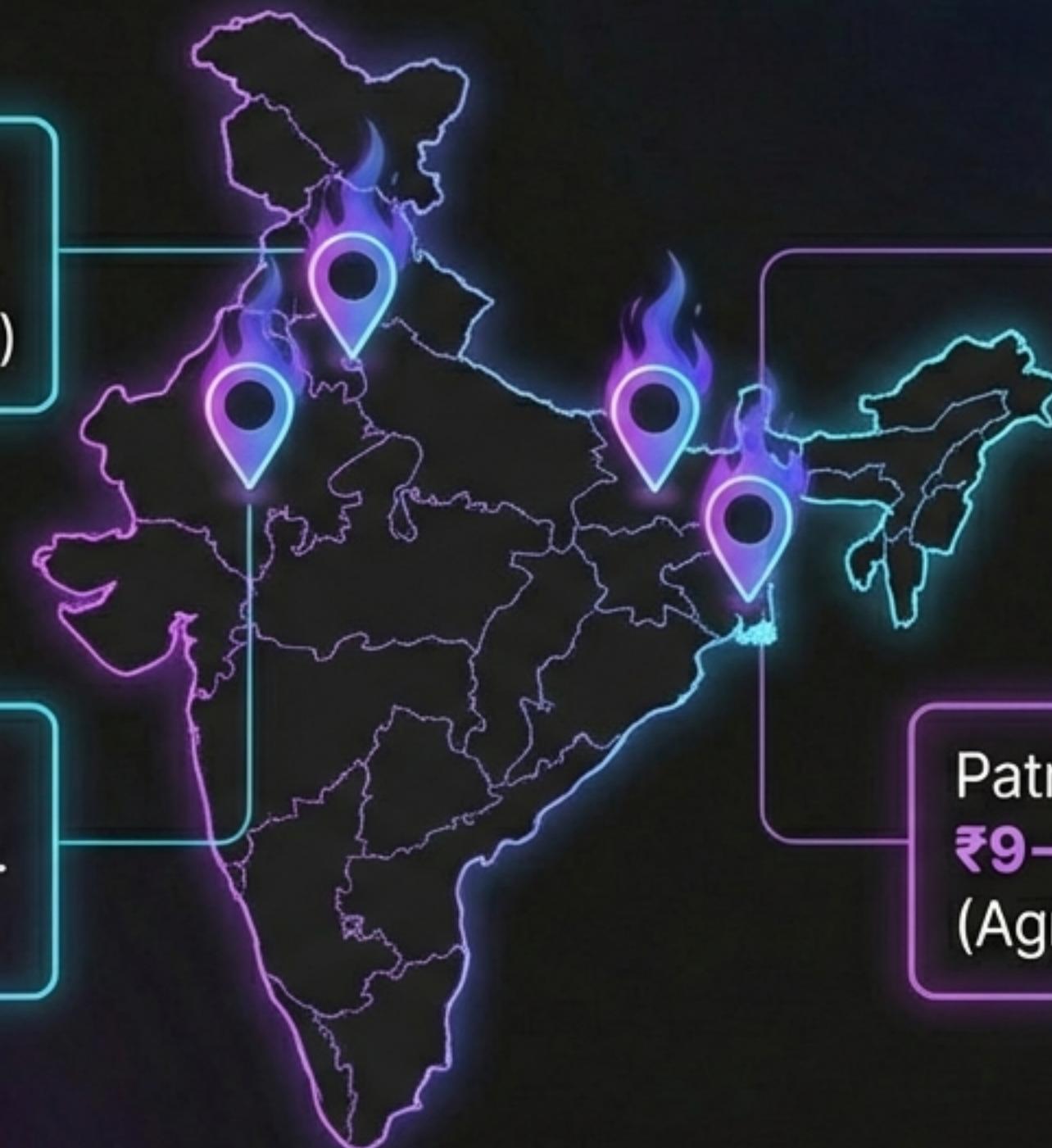
Cost Efficiency:
Syngas offsets
energy needs



Yield Optimization:
60-70% Fuel Oil

Validated Market Potential across India

Delhi: **1.0 Ton/day** →
₹15–16 Lakh Rev/Month.
(Brick kilns, diesel burners)



Kolkata: **0.8 Ton/day** →
₹12–14 Lakh Rev/Month.
(Industrial fuel markets)

Jaipur: **0.7 Ton/day** →
₹11–12 Lakh Rev/Month.
(Ceramic/tile units)

Patna: **0.6 Ton/day** →
₹9–10 Lakh Rev/Month.
(Agri & small factories)

Investment Requirements

Total Investment: ₹10-20 Lakh

Machinery & Setup:
₹6-10 Lakh



Land & Infra:
₹1-3 Lakh

Working Capital:
₹2-5 Lakh

Licensing:
₹0.5-1 Lakh

Monthly Operational Breakdown

Average Monthly Cost: ~₹1.5 Lakh

Labor & Staff: ₹40k-80k

Rent/Lease: ₹10k-30k

Utilities (Power/Water): ₹15k-25k

Logistics: ₹10k-25k

Admin & Compliance: ₹10k-20k

Contingency & Maint: ₹10k-25k

₹40k-80k

Revenue Streams & Output Value



Fuel Oil

60–70% Yield.
~600–700 Litres/day

Revenue:
₹10.5L – 14L/Month



Carbon Char

15–20% Yield.
~150–200 kg.

Revenue:
₹18k – 50k/Month



Syngas

10–15% Yield.
Reused internally.

Saves:
₹500–1,000/day

The Bottom Line: Profitability



59%
Margin

Total Monthly Revenue: ₹11.0 Lakh

Total Monthly Expenses: ₹4.46 Lakh

Net Monthly Profit:
₹6,54,000

Proactive Risk Management



Regulatory

Compliance with WBPCB/CPCB & fire norms via rigorous certification.



Supply Chain

Long-term agreements with local aggregators for consistent feedstock.



Tech Downtime

System redundancy & trained technicians for rapid resolution.



Market Volatility

Diversified outputs (Fuel, Char) & government support leverage.

Why This Matters Now

Financial

High ROI, ~59% Margin.



Environmental

Diverts plastic from landfills, cuts emissions.

Social

Creates local jobs, supports Swachh Bharat.

Join the Revolution

Partner with us to scale decentralized plastic waste conversion.

Next Steps

1. Review detailed financial projections.
2. Schedule a site visit to see the 1-ton unit.
3. Finalize investment terms.