

Sustainable Site Developments for Plastic Waste Recycling & Energy Generation

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For seed funding purposes to secure
financial close only. Subject to contract.

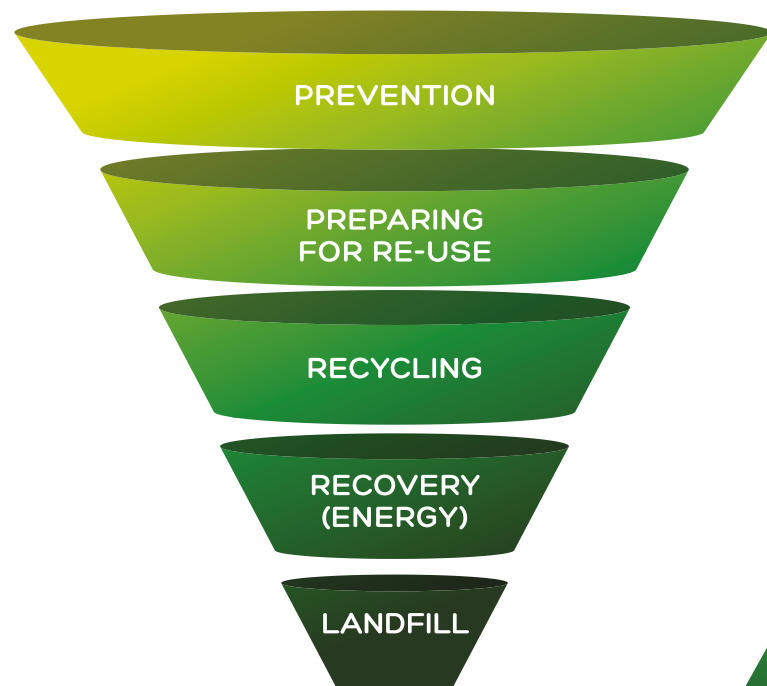
Investment Summary

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Sustainable technology for UK sites to sort and grade waste plastic.

Recycled waste is sold to remanufacturers, leaving the waste residue converted into low carbon gas to generate energy.





“We believe in a decarbonised future for sustainable energy and plastic waste recycling”

Sean Lindgren - Founder and CEO, Plastic Green Power Ltd.

The Vision

A decarbonised future through sustainable energy production and recycling plastic waste, meeting tough imposed low carbon targets.

The Mission

We will recycle waste plastic into a reusable high grade material. Any waste residue gets converted into low carbon gas, reducing the UK's reliance on fossil fuels.



**Return on investment
in PGP will be
8x over 5 years**

100_{years}

of combined specialist
experience in **renewables,**
power generation and
waste recycling.

with our technical partner

Reliagen[®]

A Global Plastic Crisis

Globally, we produce 300 million tonnes of plastic waste each year¹, that's the weight of the entire human population.

In Europe, less than 30% of waste is recycled properly:



>1%

ends up in
the sea¹



31%

goes to
landfill¹



39%

gets
incinerated¹

1. <https://ec.europa.eu/environment/circular-economy/pdf/plastics-strategy-brochure.pdf>

2. <https://www.gov.uk/government/statistics/local-authority-collected-waste-management-annual-results>



The UK sends
3.2m tonnes
of waste to landfill annually²



Advanced Mechanical Recycling (AMR)



High-grade plastics are separated, recycled and sold to a market where demand is high, due to the UK's new Plastic Packaging Tax.

Through our partners there is a secured waste contract of 90,000 tonnes per year for 10 years at a competitive price, index linked.



Sorting and recycling of plastic waste

We are paid a gate fee to sort and grade plastics and other useful materials from part processed waste.



Sale of graded materials and chemicals

Tier 1 and 2 plastics are converted into materials and chemicals for sale. Lower tier plastics are split into fuels and recyclates.

We aim to at least triple today's 9% average of plastic recycling.



Project revenue from AMR in excess of
£8 million per year



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A Looming Energy Gap

The national grid relies on unreliable sources of energy. Our environment is being damaged by fossil fuels.

Flexible technologies are needed to balance the grid for a consistent energy supply that meets growing demand:



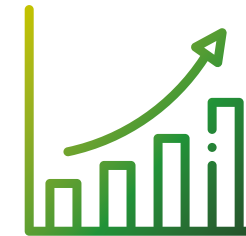
Coal power
to be phased
out by 2025³



Decarbonisation
targets toughening
from 2023



Wind and solar
power are too
inconsistent



Energy sector
growth expected
390% within
15 years

3. <https://www.gov.uk/government/consultations/coal-generation-in-great-britain-the-pathway-to-a-low-carbon-future>

Plastic Waste to Gas Power (PWGP)



Gas peaker units provide a reliable and efficient source of energy at times of high demand.

Initially we will install 20 MW units that run on natural gas with scope to futureproof the unit by converting to operate at low to zero emissions.

PWGP units will use low carbon gas derived from plastic rich waste residue. 90,000 tonnes of waste from AMR will produce ~30% residue.

Peak demand means peak price.



30,000t residue
per year



22,565 MW
per year



£1.5 million
per year revenue



Typical 20 MW
natural gas peaker
will generate
**£4 million
per year**



**Plastic Green
Power Ltd**

Sustainable Integration Sites

After both phases have been established, we will develop a commercial scale site to integrate AMR and PWGP technologies to stack multiple revenue generation opportunities.



Phase 1

Advanced Mechanical Recycling (AMR)

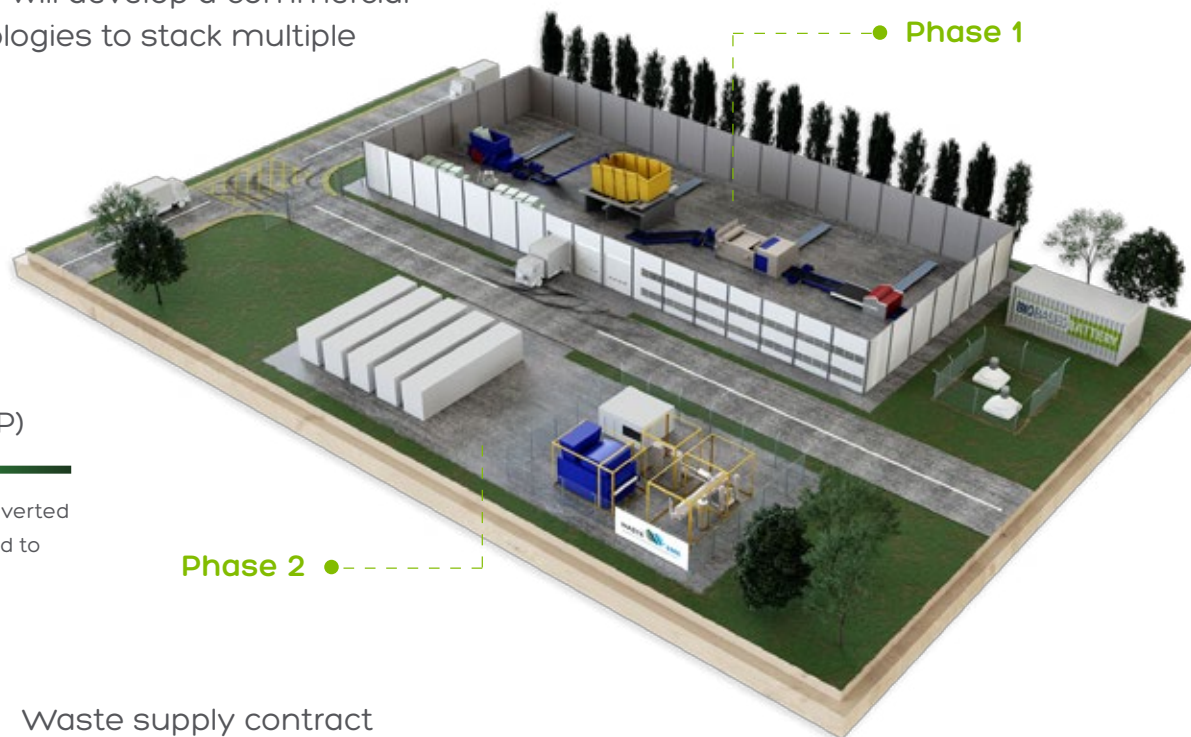
Deploy a waste sorting and recycling system to grade saleable material.



Phase 2

Plastic Waste to Gas Power (PWGP)

Waste residue will be converted into a low carbon gas used to generate electricity.



Progress so far:



Planning



Waste supply contract



Power purchase agreement



Offtake contracts

At Heads of Terms stage, subject to final legal drafting.

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existing sites
are ready to
secure assets
for development



10 sites identified for
future development

Site Revenue

	2021	2023
Site 1	Phase 1 - AMR £8,000,000	Phase 1 - AMR £8,000,000 Phase 2 - PWGP £1,500,000 20 MW Gas Peaker £4,000,000
Site 2	20 MW Gas Peaker £4,000,000	20 MW Gas Peaker £4,000,000 Phase 2 - PWGP £1,500,000
Site 3	20 MW Gas Peaker £4,000,000	20 MW Gas Peaker £4,000,000 Phase 2 - PWGP £1,500,000
Total	£16,000,000	£24,500,000

Illustrative only, subject to technical and commercial feasibility details

Target project IRRs are 12% hurdle rate for each site and phase.

Seed Funding Required: £750,000

Investment in PGP enables project development of our 3 secured sites to reach financial close, funding is required to complete:

Compliance	£35,000
Due diligence	£115,000
Legal fees	£225,000

Planning	£110,000
Marketing	£45,000
Other	£220,000

Return for investors

A range of possible fees will be earned from both phases of the recycling and energy conversion processes:



Awaiting approval of Advance Assurance from HMRC for investors to claim 30% EIS tax relief on their investment .

For a full financial breakdown refer to our **Business Strategy** document.



Return on
investment in
PGP will be
8x over
5 years

Based on growth projections, subject to market conditions and contracts.

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Plastic Green Power Ltd registration number 12085821

Nothing is **wasted** with  **Plastic Green
Power Ltd**