



ENABLING micro recycling that benefits communities and creates entrepreneurs

 **cean**
Plastic Technologies

Recycling is failing

Worldwide, recycling does not work as the logistics required make it too expensive to be economically viable. As a result, only 6% of plastic waste is being reclaimed and recycled.



No Place to Go

China has stopped accepting waste plastic. Our landfills are full so where does our plastic go?



Transportation Costs

Rising fuel prices mean that collectors are not making sufficient profit per load to make recycling economically attractive.



Inadequate Infrastructure

Countries can't handle the volume of waste generated so plastic pollution is being washed into rivers and oceans.



Greenwashing

Companies marketing an environmental commitment are generally not delivering on it.



Reliable Sourcing

Corporate manufacturers cannot source enough certified recycling material to meet sustainability / EPR targets.

WHAT IS THE ANSWER?

OUR SOLUTION:

We encourage recycling in communities by monetising plastic waste

- Educating communities about the value of waste plastic
- Encouraging the collection of waste plastic
- Creating revenue streams for collectors
- Providing direct and indirect jobs in the community
- CREATING a circular economy for waste plastic





More about our Micro Recycling Pods (MRPs)

Self contained units that can be placed on site where plastic waste can be collected, sorted and processed at one convenient location.

BENEFITS:

- A proven model that monetises plastic waste in communities
- **Densified plastic reduces logistical costs and emissions**
- Creates job opportunities and empowers entrepreneurs
- Data driven traceability to verify output
- **Verified supply of recycled plastic for manufacturers**
- Affordable set-up and running costs
- Offtake agreements on processed plastic – OPT buys back all plastic processed by the MRP and sells this back into the supply chain
- Minimal power and water consumption – can be run off single phase, 3 phase or solar energy
- Creates a true circular economy



Products sold in stores



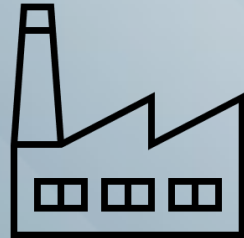
Consumer buys plastic product

Consumer discards responsibly



MONETISE

Plastic flakes sent direct to be remanufactured into products



OFFTAKE AGREEMENTS



MRP's clean and process plastic waste into flakes, at source

MINIMAL LOGISTICS

The impact of one MRP in a community



1 to 6

Direct jobs created



250 000

Tons / year

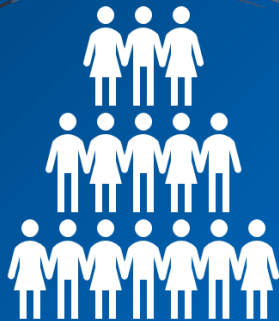
Plastic removed from
the environment

\$105k+

Turnover for
community
business

\$38k

into community
economy



60 -120

Earning a Wage
Number of paid
community jobs
created



840

People benefit
Impact multiplier



3 250 000

units

Potential new
products a year



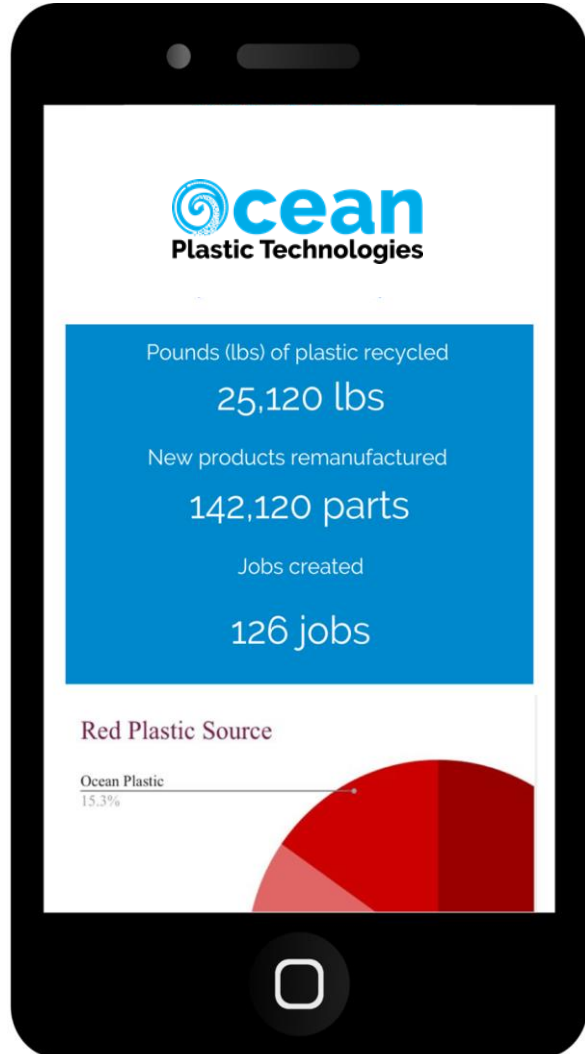
Key features of our MRPs

- Proprietary engineering and processes to handle **ALL** grades of plastic waste
- 4 in 1 processing plant capable of shredding, cleaning, drying and granulating
- Non intensive process – can be operated by 1 person
- Assembled in a 20" container that can be easily transported
- Processing capacity in excess of 1 ton per day
- Authenticated traceability of plastics' journey
- Capable of processing contaminated plastic
- Model includes operational and business training for operators



CORPORATE SUSTAINABILITY:

Traceability Technology



App to commercialise the collection of plastic allows for data driven transparency.

- Product weight and volumetrics measured during processing cycle
- Coded traceability to accurately document the cycle of the processed plastic
- Captures an auditable chain of custody from collection point to remanufactured products
- IOT4.0 connected processing equipment:
 - Programmed to suit different source materials
 - Remote diagnostics and support – auto release jams
 - Detailed diagnostics available in real time

Cashless system – QR code payment by voucher on the App (for collectors).

Partnership with an online ecommerce solution to sell from container directly to an open market.

Our MRPs enable measurable **SOCIAL UPLIFTMENT**

- Enterprise Development – encourages the development of entrepreneurs and SMME's
- Supplier Development – as the SMME matures, it can play a bigger role in supplying companies with their ongoing requirements
- Socio Economic Development – small, community owned and operated MRPs clean up communities and create jobs

Our Business in a Box solution

- Plant and equipment suited to the volumes in the community
- Suitable container or modular housing
- Admin equipment, collection trollies and bags
- Production processing, QR Code System, Track and Trace software
- Comprehensive training and support with initial stock and inventory assistance

3 different capacity pods to better align with community waste volumes

4+
tons per month

GEN 1

8+
tons per month

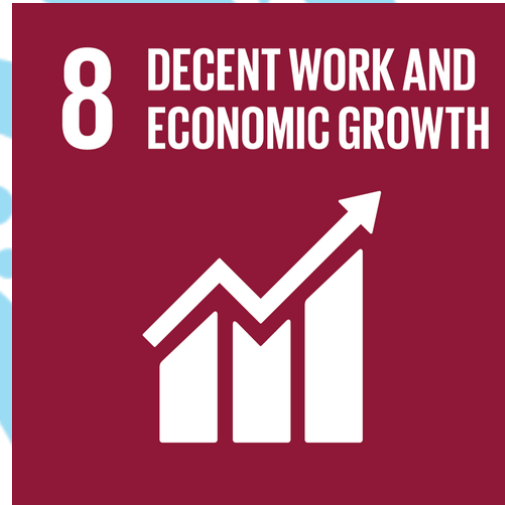
GEN 2

20+
tons per month

GEN 3

- Each version has been matched to **processing capacity, client budget** and post consumer **plastic waste volumes** in the area where the MRP is located
- Leads to better volumes and more efficient collections
- Based on 6 years of research, development and experience in the field

How does this create value within the Global Sustainability Goals?



OPT offers a solution that enables global brands to achieve their sustainability goals.

With an effective business model

- Individual MRP Business Model & Financials
- Regional Pilot Programmes Business Model
- Revenue share or monetisation options

Positive impacts:

- Public Relations
- Profit Customer Brand Loyalty
- Protecting your environment and the oceans

View what we do: [here](#)

For more information about our Micro Recycling Pods: [here](#)



EVERYONE WINS



Let's continue the
conversation

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