



**Leveraging AI & Robotic Technology, CY#01 upcycles plastic bottles into valuable raw material already at the consumers' collection points, thus turning waste into a stream of revenue**

**Precycle revolutionize the way plastic waste is collected and treated**

CY, our AI-robot turns plastic bottles into valuable raw material already at the consumer’s location, making recycling easy and effortless. By treating the bottles before they are contaminated with other garbage, we create valuable raw material that is then sold and delivered directly to plastic factories through our environmentally friendly logistic system. Introducing a financial model that

is profitable to all players – consumers, locations operators and Precycle, we are able to turn waste into revenue and making recycling “truly work”.

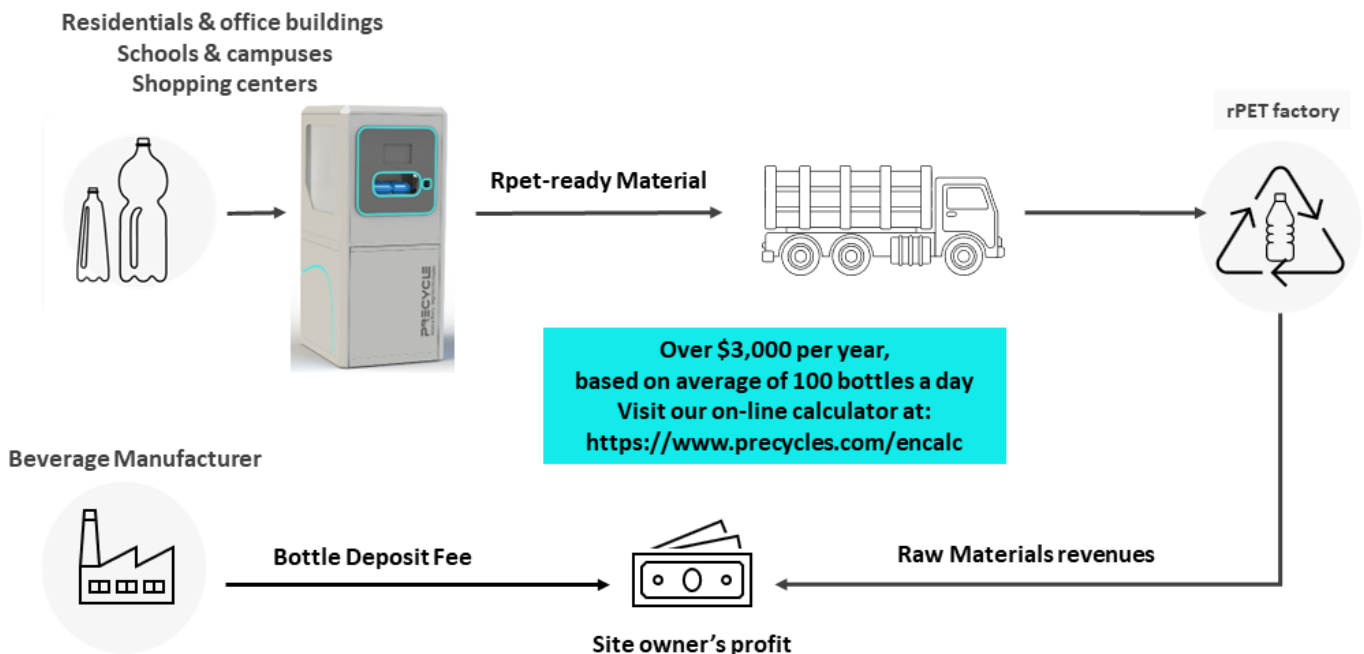
**Source Recycling Technology 3D-Recycling™**

**CY#01** combines a cascade of mechanisms controlled by detection & recognition algorithms based on computer-vision and deep-learning techniques which enables it to process plastic bottles into pure mono-chromatic condensed disks.

A combination of Deep Learning Growing Model with continuous training features and a robust detailed Computer Vision Algorithms with comprehensive and precise interpretation capabilities, are giving **CY#01** the ability to identify the exact kind of bottle fed to it including its size, color, brand, its label’s location, and type of cap.

**Locations**

**CY#01** is designed for residential and office buildings, cafeterias, schools & campuses, and shopping centers.



### CY#01 Main Features

- Stand-Alone Recycling Unit.
- Detects different kinds of PET bottles - recognize brands, colors, sizes, labels, and cap.
- Rejects dirty, un-emptied or unknown objects.
- Removes labels, compresses the bottles to disks and sorts them by colors in 5 separate storage units.
- Adaptive training to increase knowledge- base.
- Face Recognition/QR code user authentication through mobile App.
- Logs all recycling transactions in cloud.
- Internal cameras & devices remotely controlled.
- Operation over the WEB for online support, maintenance & monitoring.

### Mobile App – Version 1.0

- Sites map indicating all CY#01 in user's area.
- Shows payments & receivables between all parties.
- Send notifications status
- Different app interface for users, sites' owner, local operator, logistics & maintenance team

### Cloud Platform

- Coordinates all logistics & financial transactions.
- Stores transaction history (robots, users & recyclables)
- Coordinate logistics & maintenance.
- Remote control dashboard.

### Site Responsibilities

- 110/220V outlet connection
- WIFI /cellular infrastructure
- Maintenance of garbage bin and liquid-emptying bin
- Keep CY & site clean
- Provide local storage for empty and full storage sacks
- Free Access for courier
- Local operator for lite malfunctions support & guidance
- Tenants Education and in site campaigns

### Precycle Responsibilities

- Prevention and periodic maintenance
- Second tier support
- Delivery logistics
- Robot financing
- Selling raw material
- Reporting & collecting Deposit fee

### Technical Details

#### Dimensions:

H-180cm, W-70cm, D-85cm

**Feed speed:** 8 bottles/minute

**Processing speed:** 2 minutes/bottle

**Built-in unit** to store up to 10 bottles pre-process

**Compress rate:** 1:10

**Internal storage volume:** 5 units of 30 liters. Each unit can store up to 300 compressed bottles.

**Max. storage capacity:** 1,500 bottles.

**Raw material pickup:** min. 22kg up to 100kg and over

**User instruction screen:** 10''HD

**Internal cameras:** 4

**External cameras:** 1



