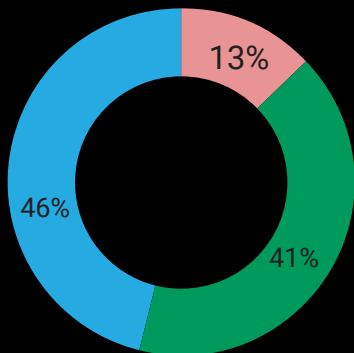




RECYCLING FACILITY USES COMPACT ROBOTS TO RECOVER OVER \$250K OF HDPE ANNUALLY

MATERIAL
COMPOSITION



HDPE Color HDPE White
HDPE Natural

CASE STUDY





CASE STUDY

INTRODUCTION

This Material Recovery Facility (MRF), wanted to know what type of recyclable materials they were losing to landfill on their last chance line and wanted to increase material recovery to align with their corporate initiative of increasing material recovery by 40% by 2030. They turned to EverestLabs as they were interested in adopting the most advanced AI and robotics to understand what they were losing and how they could recover more recyclable materials.



PROBLEM

This MRF originally had four manual sorters stationed on their last chance line and were not gathering data on the volume and value of recyclable material they were losing to landfill. This lack of data, along with ongoing labor challenges and goals of increasing material recovery to align with their corporate initiatives, led them to explore implementing AI and robotics on their last chance line.



RECYCLING FACILITY GROUP'S INDIANAPOLIS SAVED OVER

\$250K

annually

WITH EVERESTLABS
ROBOTICS & AI ON THEIR
LAST CHANCE LINE

"Since installing EverestLabs' AI and robotics onto our last chance line, we have seen a substantial increase in recovery of HDPE, one of our most valuable materials. This uptick in recovery not only helps our facility but contributes to their corporate initiative to increase recovery by 40% in the coming years."

— Operations Recycling
Manager

They deployed two RecycleOS AI systems on their last chance line. After one month of analyzing data, **they found they were losing an average of 218,000 HDPE containers per week (28,000 containers of HDPE color, 100,000 containers of HDPE natural, and 90,000 containers of HDPE white).** This is an average loss of \$7,350/week amounting to roughly \$380k annually. They then decided to deploy two EverestLabs' robots to recover these two valuable materials.



This MRF decided on EverestLabs' RecycleOS solution for three main reasons:

1. They wanted access to data like material characterization and value lost to landfill to help them optimize their operations to increase recovery upstream.
2. EverestLabs provides remote 24/7 AI and robotics performance monitoring that ensures performance and reliability.
3. Placing EverestLabs robotics on their last chance line allowed them to increase material recovery while moving their 4 last chance line manual sorters to better and safer jobs.



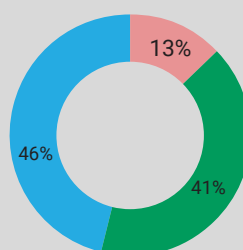
RESULTS

After utilizing EverestLabs' AI and robotics for 5 months, they found that:

1. The EverestLabs' robots recover an average of 102,000 containers (HDPE color, HDPE natural, and HDPE white) per week.
2. This increase in recovery generates an additional average revenue of \$4,800 per week amounting to roughly \$250k annually.
3. The robots have a 100% uptime during operating hours ensuring maximum material recovery.

Since the labor costs for a sorter on their last chance line cost more than the price of RecycleOS, they saw an instantaneous payback on their investment. In fact, by adding robotics into their facility, they immediately saved \$34k per year on labor costs.

MATERIAL COMPOSITION



48,188

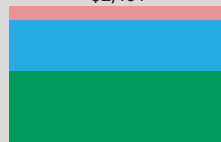
First Robot Count Picked

50,255

Second Robot Count Picked

FIRST CAMERA VALUE PICKED

\$2,451



HDPE Color

HDPE White

HDPE Natural

SECOND CAMERA VALUE PICKED

\$2,557

