

Is Big Belly worth the investment?



Picture of Big Belly on Harvard campus



Adapted from mantanecabulletin.com



Adapted from bigbelly.com

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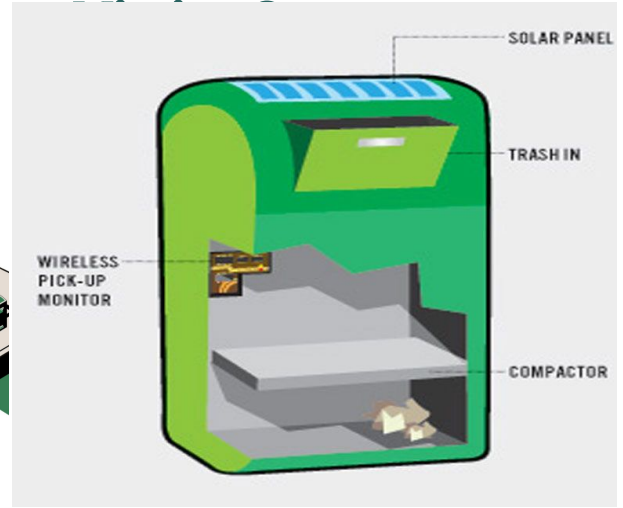
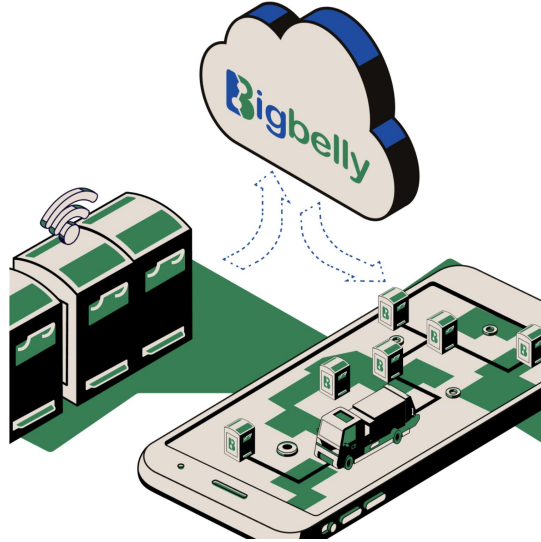
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Evan Dong

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What Is Big Belly?



Big Belly Types



Bigbelly Element

Fully Enclosed
50 Gal / 189 L



Bigbelly Sense

Fully Enclosed
LED Fullness Indicator
Battery-powered
50 Gal / 189 L



Bigbelly Sense Max

Fully Enclosed
LED Fullness Indicator
Compactor
Solar-powered
150 Gal / 570 L



Bigbelly Smart

Fully Enclosed
CLEAN™ Connected
LED Fullness Indicator
Battery-powered
50 Gal / 189 L



Bigbelly Smart Max

Fully Enclosed
CLEAN™ Connected
LED Fullness Indicator
Compactor
Solar-powered
150 Gal / 570 L

Big Belly's Clean™ Software





Adapted
From
Harvard
Crimson



Adapted
from
Terminix



Adapted
from Hawx
Pest
Control



Adapted from
Humane life
Control

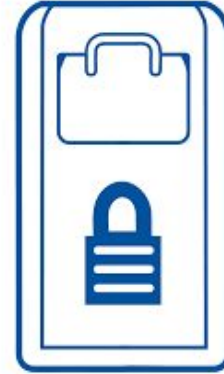
Perks of Big Belly



Public Health

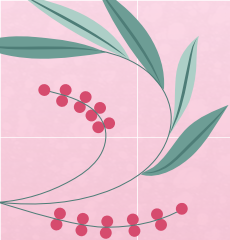


Less Litter



Complete Containment

Adapted from Bigbelly.com



Cost Analysis + Benefits

1. The BigBelly trash bin
2. The basic trash bin
3. The CleanCUBE trash bin



Cost Analysis of BigBelly

Benefits of BigBelly

- Eliminates exposed waste and litter
- Reduction in Trash Collection Frequency
- Decreased Pest Infestations and Related Health Risks
- Long-term savings in operational costs

Category	Cost
Purchasing + Installation	Slightly over \$4,000
Battery replacement	\$500 (or \$100-125 a year)
Maintenance/Repair Costs	\$20 a year for repairs
Training Costs	Varies by location and needs



Adapted from bigbelly.com

Cost Analysis of Basic Trash Can

Benefits

- Provides basic waste containment
- Minimal training required
- Low initial investment

Category	Cost
Purchasing + Installation	Slightly over \$460
Maintenance/Repair Costs	Minimal cost for repair, higher maintenance price
Training Costs	Varies by location and needs, minimal.



3D

Adapted from globalindustrial.com

Cost Analysis of Ecube Labs CleanCUBE

Benefits

- Holds 5x more waste than regular bins
- More hygienic, less pests
- Large reduction in Trash Collection Frequency

Category	Cost
Purchasing + Installation	Slightly over \$3,000
Battery Replacement	\$500 (or \$125-167 a year)
Maintenance Costs	Minimal
Training	Varies by location and needs



Adapted from ecubelabs.com

BigBelly vs CleanCUBE



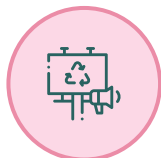


Animals and Sea Life



Estimates

Researchers estimate that over one million animals die each year due to being entrapped in or ingesting litter.



Common

Plastic is the most common killer of animals



Impactful

More than 100,000 dolphins, fish, whales, and turtles drown after becoming entangled or eating plastic each year

Between 400,000 and a million people are dying every year because of diseases and accidents linked to waste being poorly managed



Adapted from Hakai Magazine

That's 1 every 30 seconds on the more extreme side

<https://www.globalcitizen.org/en/content/david-attenborough-plastic-health-report/#~:text=Around%20the%20world%2C%20according%20to,a%20death%20every%2030%20seconds>



Adapted from National Geographic



Adapted from WTHR



Adapted from NOAA



Recycling



Adapted from Wikipedia



Adapted from Valley Community for Recycling Solutions



Adapted from Wikipedia

Paper

For every ton of paper recycled, 17 trees are saved

Jobs

Recycling has provided over 12 million jobs for people in Brazil, China, and the United States alone

<https://www.unep.org/explore-topics/resource-efficiency/what-we-do/cities/solid-waste-management/#:~:text=Poor%20waste%20management%20-%20Orange%20from,cause%20infection%20and%20transmit%20diseases>



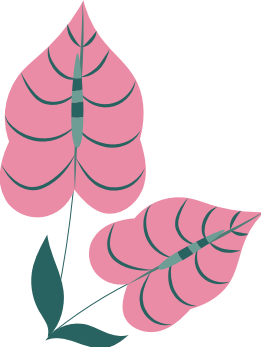
2018 Statistics of Bigbelly

144,112,133 gallons

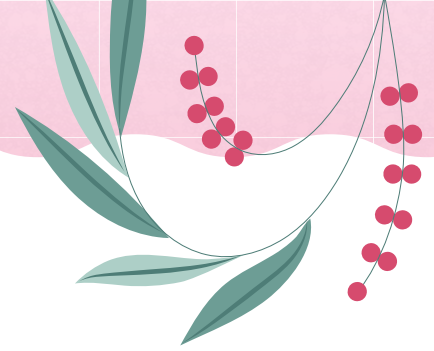
of waste in public spaces collected, captured,
and contained worldwide(545,523,766 liters)

70-90% reduced

collection frequency when using Bigbelly
compared to traditional waste bins because
the Bigbelly holds more



Works Cited



https://www.academia.edu/35335404/Benefit_Cost_Analysis_of_BigBelly_Solar_Trash_Compactors_in_City_of_Seattle_Parks

<https://bigbelly.com/news/bigbelly-compacting-trash-cans-great-for-city-of-millbrae-california-2#:~:text=The%20cost%20of%20each%20unit.costs%2C%E2%80%9D%20said%20Mayor%20Papan.>

<https://www.ecubelabs.com/solar-powered-trash-compactor/>