Bigbelly

SMART SOLUTIONS FOR CITIES

Bigbelly provides a public right-of-way platform to deliver Smart City solutions and host communications infrastructure

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Bigbelly Smart Solutions for Cities | The World Leading Smart Waste & Recycling System

The Bigbelly Platform

Communities and solution providers share the challenge of how and where to deploy Smart City solutions and communications infrastructure in the public right-of-way without additional clutter or negative aesthetic impact.

Smart Waste & Recycling

Wi-Fi Hotspot

Beacons

Urban Sensors

Small Cell

First Responder Networks

Bigbelly SMART CITY SOLUTIONS

Bigbelly is a platform deployed in the public right-of-way that delivers much more than smart waste & recycling. In addition to modernizing a core city service, it is optimal for hosting additional technologies. It is easy to access and can hide technology in plain sight.

Solutions for Smart Cities

Municipalities are driven to deploy solutions that encourage citizen engagement, solve operational problems, and deliver meaningful data that can lead to improved services. Bigbelly enables cities, towns, business improvement districts (BIDs), parks, and transit systems to transform a core city service and leverage a multi-purpose platform to beautify public spaces.

Solutions for Campuses

Colleges and universities strive to deploy solutions that keep their campus clean, showcase commitment to sustainability, and solve meaningful operational problems with data. From Ivy Leagues to Community Colleges, campuses leverage Bigbelly to transform their public spaces, enhance service delivery, and improve the quality of life for students, staff, and visitors.

Solutions for Retail & Venues

Retailers and venues use Bigbelly to automate much of the work needed to manage the all-too-frequent task of front-of-house trash & recycling collection. Office buildings, hospitality, healthcare facilities, and other businesses are increasing productivity, showcasing their commitment to sustainability, and enhancing the overall customer experience with Bigbelly.

Bigbelly Smart Waste & Recycling System
Modernizing Public Space Waste Management

Bigbelly is the world leader of smart waste & recycling solutions for public spaces. Communities deploy smart, solar-powered, sensor-equipped waste & recycling stations that communicate their real-time status to streamline waste management operations.

› Suite of smart, connected waste & recycling stations keep waste contained and report fullness status to collection crews to enable increased productivity.

› A cloud-connected platform for managing public space waste and providing actionable insights into ongoing operations and daily collection routine.

› Customers experience up to 80% collection reduction in addition to cleanliness, operational, economic, and environmental benefits with the Bigbelly system.

Cleaner Public Spaces

Bigbelly transforms public space cleanliness and aesthetics with total waste containment - eliminating overflows, visible waste, windblown litter, and critter access. Create cleaner, greener, safer pedestrian spaces with reduced truck traffic, noise & congestion.

No Windblown Litter
or Access for Critters

Total Waste
Containment

No Overflows
or Visible Waste

Increased Productivity

Communities experience up to 80% collection reductions with a smart waste fleet and compaction technology. This results in decreased truck rolls, vehicle wear, and fuel consumption. Informed decision making with data and analytics enables labor to be reallocated to more meaningful projects.

Increased Capacity
(5x Traditional Bin)

Automated Real-Time
Collection Notifications

Operational Insights,
Analytics & Reporting

Measurable Sustainability

Introduce and measure the diversion rate of a public space recycling program. Bigbelly offers multiple streams at each station to encourage proper recycling. Reduce carbon footprint & greenhouse gas emissions with decreased fuel usage and vehicle pollution.

Measurable Recycling
Diversion Rates
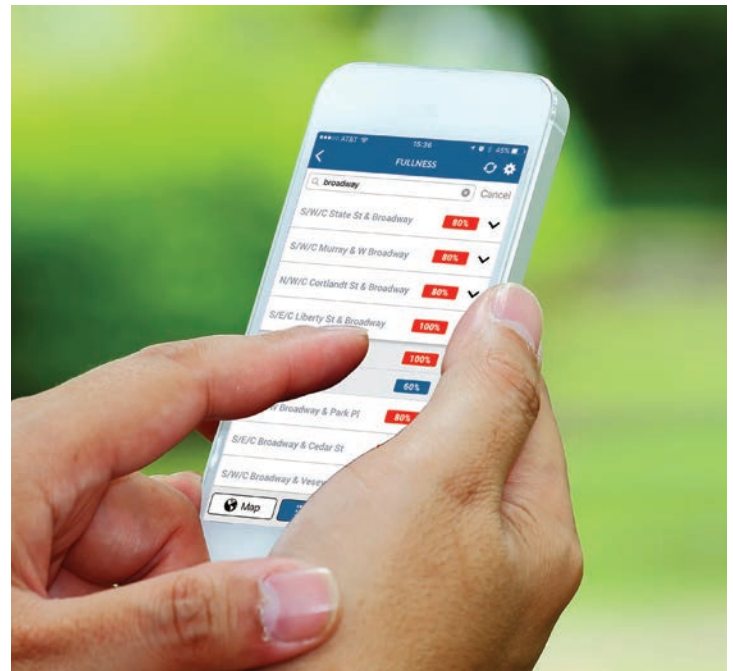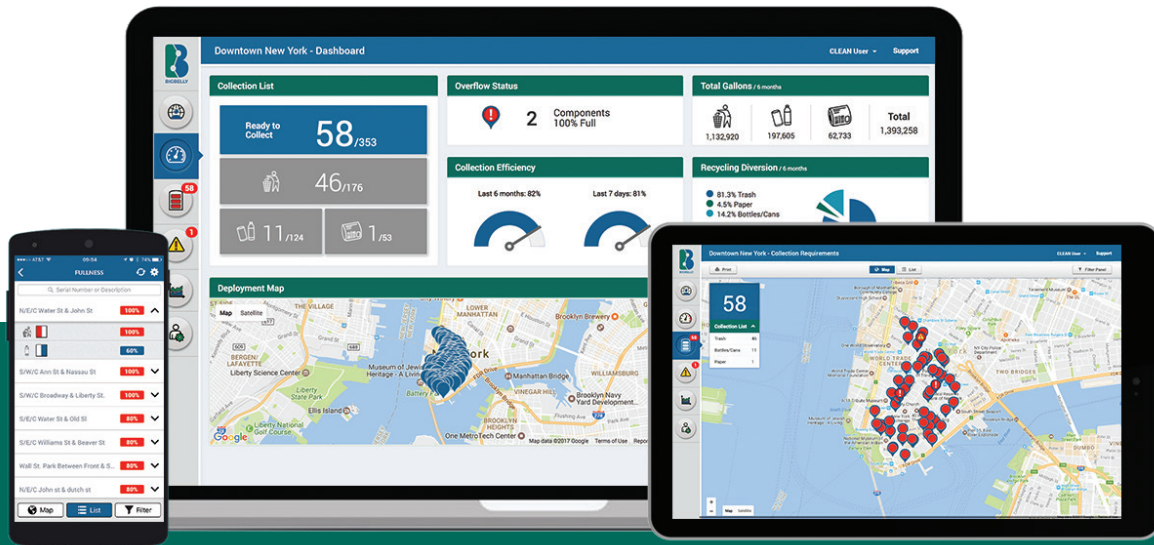
Uniform Public Space
Recycling Programs

Reduced Pollution
& Carbon Footprint

Cloud-Connected Platform for Smart Waste Management

CLEAN Management Console Software is the cornerstone of the Bigbelly Smart Waste & Recycling System, providing full visibility into an entire operation. This is the centralized location from which the system is managed and operational analysis can be done. It includes a set of tools for system setup, management, monitoring, and optimization from either a web-based software or mobile app.

- Smart stations communicate real-time status directly into CLEAN Management Console.

- Auto-generated email, text, and online notifications indicate which stations need to be collected to drive increased productivity while eliminating overflows and unnecessary collections.

- Users can optimize collection routines, measure and benchmark operations, and realize location-based waste patterns (volume, fill rate, collection activity) across a Bigbelly smart waste fleet.

CLEAN Management Console Software

- › Centralized Dashboard with Real-Time Collection Requirements & Metrics

- › Real-Time Station Status Based On Percent Fullness and Age

- › Auto-Generated Notifications Trigger Collections Exactly When Needed

- › Reliable and Easy-to-Use Web-Based Software; No IT Setup Required

- › Data Export Capability and APIs to Support External Dashboards

- › Suite of Reports to Analyze and Benchmark Operations Over Time

- › Measure and Report on Recycling Diversion Rates per Waste Stream

- › Customizable Asset Management & Role-Based User Administration

- › Anytime, Anywhere Access via Mobile App for iOS and Android Devices

Download on the App Store   GET IT ON Google Play

Suite of Smart, Connected Waste & Recycling Stations

Each Bigbelly deployment is comprised of a customized fleet of smart waste & recycling stations. An assessment of the unique challenges and needs of each public space determines the best suited combination of capacity, waste stream, and accessories/options. Stations can be configured as standalone single stations or as multi-stream double or triple stations to accommodate each community's waste stream collections. The full suite of smart stations are field-proven to be durable and street-tough across all environmental conditions.

Two capacities (high & standard) are available to match the varying waste volume needs in every location.	Stations are self-powered (compactors are solar-powered) & do not require connection to an electrical grid.	Each smart station analyzes and monitors its status to make decisions about communications, fullness & alerts.	Sensors located inside each station continuously measure the fullness status, door opens, and collection activity.	On-board GPS provides accurate and up-to-date geolocation for the most precise location-based data.	Smart stations communicate their real-time status and activity to the cloud management system via cellular connection.

High Capacity Stations

Smart, Solar-Powered Compacting Model

- Senses & Communicates Fullness Level
- Capacity: 150 Gallons (~570 liters)
- Built-in Compactor (5:1 Compaction Ratio)
- Enclosed Design with Hopper

Standard Capacity Stations

Smart, Self-Powered Non-Compacting Model

- Senses & Communicates Fullness Level
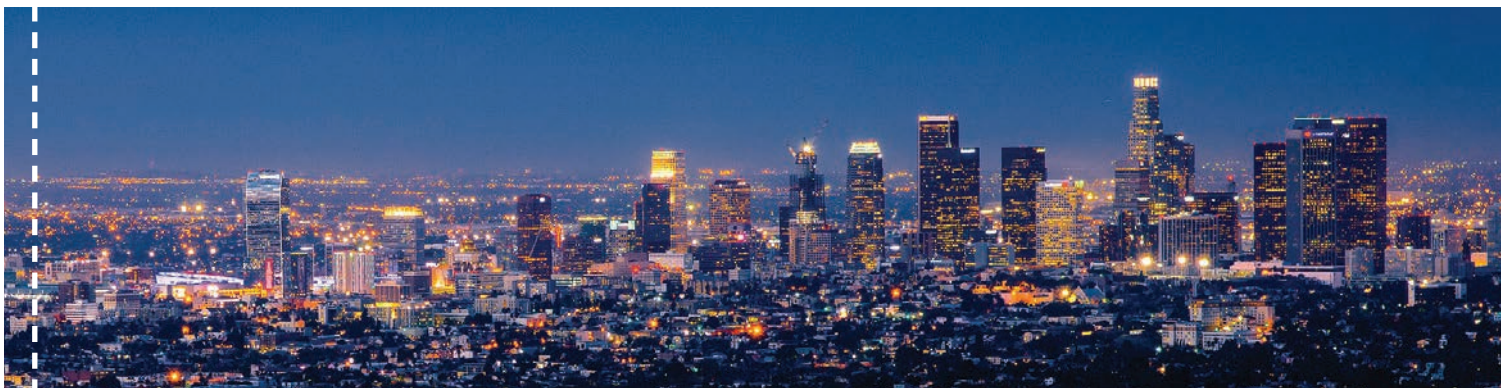- Capacity: 50 Gallons (~190 liters)
- Enclosed Design with Flap

Multi-Stream Configurations

Stations are modular and support any combination of waste streams at each location. *Waste Streams Available: Trash, Single Stream, Bottles & Cans, Paper, and Compost/Organics.*

Options & Accessories

- Foot Pedal for Hands-Free Use
- Wheeled Interior Lift Bin
- Graphic Wraps, Message Panels and Stickers
- Ashtray and Stub-Out Plates
- Security System with Physical Plates
- External A/C Adapter for Indoor Use

Bigbelly Provides a Public Right-of-Way Platform to Deliver Smart City Solutions and Host Communications Infrastructure

Communities deploy the Bigbelly Smart Waste & Recycling System to eliminate the common challenges of managing public space waste. They can take advantage of required public waste infrastructure as a host location for other applications and equipment.

Deployed in the Public Right-of-Way "Where the People Are"

Stations are densely installed across public spaces to keep communities clean and to capture waste where the people are. Cities can take advantage of shared space in the stations to deploy other technologies without adding clutter in dense urban areas.

Hide Applications and Infrastructure in Plain Sight

The core waste infrastructure has a proven form factor and offers a multi-purpose platform capable of hosting Smart City technologies. City-wide deployments enhance the urban experience without negative aesthetic impact by hiding equipment in plain sight.
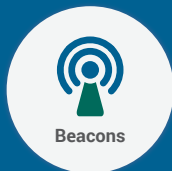
Smart Waste & Recycling System

The core smart waste & recycling system includes smart stations on the street which communicate their status into an cloud-connected software to drive up to 80% collection reduction and cleaner spaces.

Wi-Fi Hotspots

The smart station form factor doubles as a sealed location to conceal a Wi-Fi hotspot in the public right-of-way. No plugs or grid power are required for instant Internet access with up to 200' signal radius.

Location-Based Beacons

A beacon network can be deployed within a smart waste & recycling fleet to deliver location-based messages and notifications, such as neighborhood alerts, public service announcements, or local business promotions.

Urban Sensors

Placed discretely inside smart waste stations, urban intelligence sensor networks can be deployed exactly where the people are to capture data from footfall and noise, to environmental status and pollution levels.

Small Cell and Wireless Equipment

Leverage the Bigbelly platform as a multi-purpose infrastructure in dense urban areas. It can host small cell and other wireless equipment in an easy to access sidewalk location while being hidden in plain sight.

First Responder Networks

Consider the platform extended to be a cabinet-like hosting location for essential city safety networking equipment right on the street, such as separate first responder networks or emergency broadcast systems.

#1 World Leader in Smart Waste & Recycling Systems
Bigbelly Smart Solutions for Cities

Bigbelly is the #1 provider of smart waste & recycling solutions around the globe, deployed across Smart Cities, campuses, and organizations in all 50 United States and in over 50 countries worldwide.

The company was founded in 2003 with the goal of transforming one of the least efficient and resource-intensive industries: waste collection. Since then, the company has evolved to offer a unique and complete solution by leveraging renewable solar energy and information technology.

Today, Bigbelly is a multi-purpose platform for building smarter cities. Uniquely positioned as a public right-of-way platform, it delivers Smart City solutions and hosts communications infrastructure. It enables communities to beautify public spaces, increase productivity, and improve quality of life.

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