



SenthiSYS™

Smart Solid Waste Sensor Network



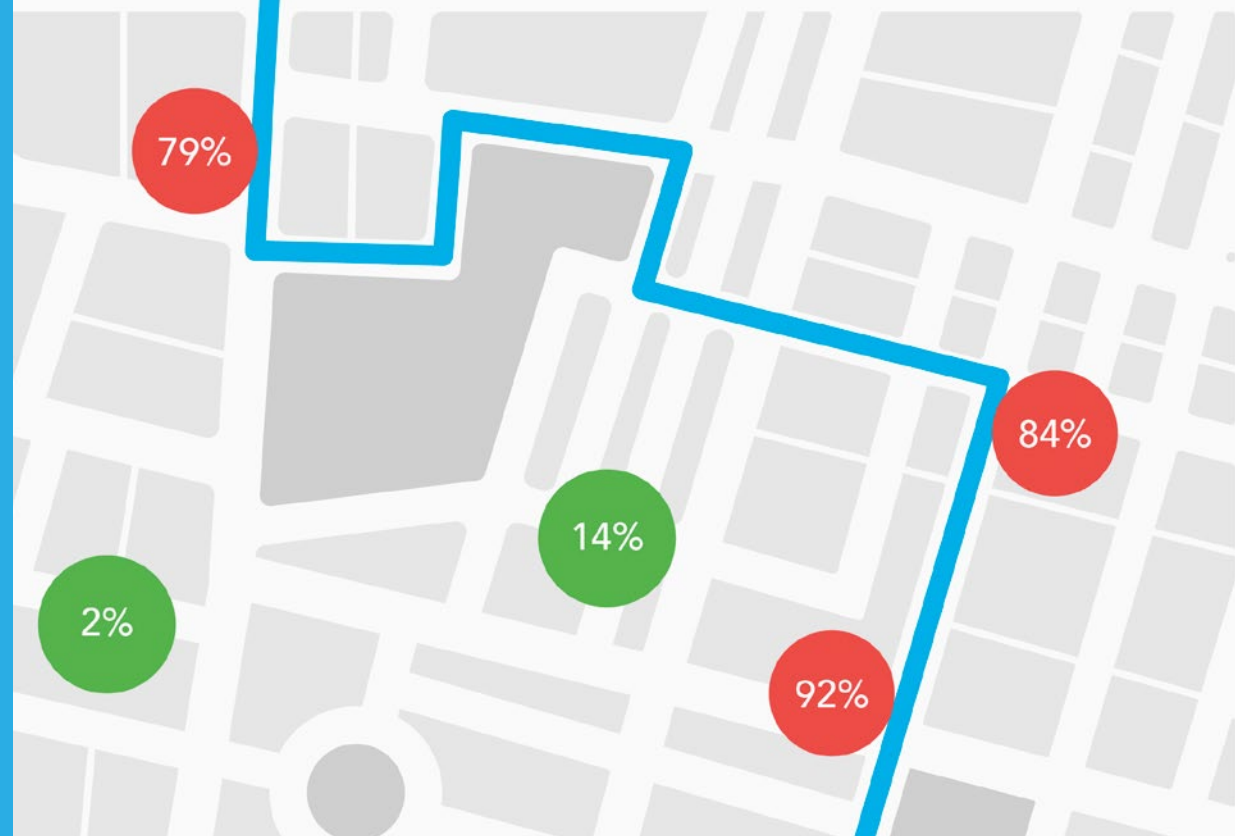
# The SentiSYS Solid Waste Smart Sensor Solution

Reduce your solid waste collection costs by up to 30%, eliminate inefficient bin collections, and reduce the number of customer complaints by leveraging the power of smart sensors, wireless networks and intelligent data insights.

SentiSYS delivers a smart solid waste management solution with Sensoneo™.

Our team integrates remote wireless sensors that track the fill levels in waste bins with a software solution that provides waste management operations with more cost-efficient waste collection routes. With better solid waste data insights, fuel costs and emissions are reduced and customers can better track their solid waste capacity requirements.

We believe that smart technology should provide measurable benefits. Smart waste sensor solutions allow local governments and their waste collection providers to provide a positive impact on the community, from fewer vehicles on the road, lower operating costs, and a cleaner environment.



## Solid Waste Sensor Network

The SentiSYS smart waste sensor network is designed to improve solid waste collection, whether it's operated by a public or private service. Sensoneo smart sensors measure and report on the fill levels of any type of waste, and for any waste bin size. This utilization data is made available in real time to decision makers along with analytics tools so they can make more informed waste collection, scheduling, and investment decisions.

## Smarter Networks from SentiSYS

Sensor networks can uncover hidden insights that allow local governments to make more timely and data-driven operating decisions. SentiSYS designs solutions on a single wireless platform so that local governments can realize operating efficiencies, experience financial benefits, and gain economies of scale.

Alternative wireless technologies, such as LoRaWAN, along with a new generation of small-form and intelligent sensing devices, have changed the economics behind smart solutions. LoRaWAN was developed to provide smart sensor-driven applications with a dedicated, wide-area, low-power, secure, and affordable network without bandwidth competition from consumers or other users. In addition, LoRaWAN provides open-standards interoperability between devices so that a single network can support multiple types of smart sensor solutions.

## Our Services

SentiSYS offers clients an end-to-end smart solution. We help local governments design, procure, install, and manage their sensor networks and their data. We work with trusted vendors and leverage proven project and change management methodologies to mitigate the risks associated with deploying new technologies. We believe that local governments can realize significant financial, operational, and quality of service benefits by deploying multiple IoT applications on a secure wireless network with a consolidated single data management platform.

## Features

- Intelligent sensors that accurately measure waste levels for commercial and residential bins
- Measure and report fill levels for any liquid or solid waste, including recyclable materials
- Smart Route Planning tools automate collection route planning using fill-level data, fleets data and personnel data. Driver Navigation App offers turn-by-turn navigation for oversized vehicles
- Citizen App allows community to participate and help manage solid waste and recycling
- Operates on cell and LoRaWAN networks

## Benefits

- Decrease fuel, overtime, and other waste collection costs by up to 30%
- Eliminate health & safety risks from overflowing bins and trash on the street
- More efficient waste collection means fewer trips and less CO2 emissions
- Fewer customer complaints about overflow waste bins
- Plan waste collection ahead with Smart predictions
- Identify bins that are driving higher costs



MeterSYS is a smart solutions consultant and systems integrator. SentiSYS is our brand of our end-to-end smart community solutions. We have been delivering smart infrastructure solutions since 2015, primarily in advanced metering solutions, and our expertise is providing our public clients with an end-to-end reliable and cost-efficient wireless sensor network solution. We have expertise in vendor evaluation, bidding and procurement, project management, installation, systems integration, change management, and data management analytics and services.

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