**PUBLIC WASTE MANAGEMENT**

**CSE5ITP**



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**INTRODUCTION**

ECube was established in 2011, Ecube Labs is an innovative green technology company committed to providing eco-friendly waste management solutions for smart and sustainable cities of tomorrow. Their current line of offerings includes an integrated, IoT-based solution that dramatically improves the efficiency of waste collection, all the while making our environment greener and communities cleaner.

They help cities and waste collection organizations alike to reduce operational costs by eliminating unnecessary pick-ups, providing dynamic collection routes and schedules for a complete optimization of the collection operations.

Essentially, they provide transparency and increase operational effectiveness in the waste collection chain, reducing costs and labor associated with such services. Their eco-friendly waste management solutions also improve public cleanliness by reducing the impact of overflowing bins.

As one of the top smart waste management and logistics solution company, they have continued to invest highly in R&D, global expansion and most importantly our people. Ecube Labs has offices in North America and Asia. Their products and services can be seen throughout all major regions including North & South America, Europe, and the Middle East.

**PRODUCTS**

**They basically offer four products which are:**

1. Clean Flex – The Ultra sonic fill-level sensor
2. Clean Cube – The solar power trash compactor
3. Clean City Network – Waste analytics platform
4. CCNx – The fleet management platform

**BENEFITS & DESCRIPTION**

**Clean Flex – The Ultra sonic fill-level sensor:**

Clean FLEX is a wireless ultrasonic fill-level sensor that securely monitors a container’s fill-level and sends real-time data to [Clean City Networks](https://www.ecubelabs.com/waste-analytics-platform/), our cloud-based monitoring and data analytics platform.

Clean FLEX can be easily attached to any type of container or tank to monitor any type of waste, including solids and liquids. Together with the cloud platform, Clean FLEX enables cities and waste management companies to increase their operational waste collection efficiency by up to 50%.

**Clean Cube – The solar power trash compactor:**

Clean CUBE is a solar-powered trash compactor which can hold up to 8 times more waste compared to non-compacting bins, reducing collection frequency by up to 80%. It is compatible with standard 120L and 240L wheelie bins for easy and safe trash removal, and it also communicates information it collects in real time through wireless transmission to [Clean City Networks](https://www.ecubelabs.com/waste-analytics-platform/), our cloud-based monitoring and data analytics platform. Clean CUBE can be equipped with various optional features such as LED backlight, LCD panel, graphic wraps, and Wi-Fi router.

**Clean City Network – Waste analytics platform:**

Clean City Networks, or CCN, is the leading waste management platform and the glue that binds all our solutions together. CCN provides the monitoring environment, smart dashboard, analytics, and control center in one comprehensive and simple package. Web-based and cloud-hosted, CCN is available anywhere you have a modern browser and an internet connection. It gives you total control and insight into your waste management operations and has proven cost-reduction benefits in all sectors of your operation.

**CCNx – The fleet management platform:**

CCNx is the ultimate FM solution for any fleet size. As a fully integrated extension of CCN, CCNx is able to leverage the data and powerful analytics of your current waste management operation managed through CCN and turn your manually scheduled routes into fully optimized routes using machine learning algorithms. This means your operations will not only be instantly optimized, they will continue to get more efficient over time!