

CASE STUDY:
Sunnyvale, California

Challenge: In response to California’s SB1383 mandate to divert organic waste from landfills, the City of Sunnyvale undertook a complete overhaul of its food waste depackaging system.

The Goal: Increase recovery of organic material, improve operational efficiency, and expand capacity to meet growing residential and commercial demand.

Solution: Partnering with **Van Dyk Recycling Solutions**, the city installed a **state-of-the-art recycling system** featuring the **KEITH® WALKING FLOOR® storage and metering bin**.

This system supports **both residential and commercial source-separated organics (SSO)** and was funded through the **CalRecycle Organics Grant Program**.

How It Works: Trucks unload into the in-ground feed bunker, where shaftless screws mix material for the SMIMO120 depackager. Before processing, the material is transferred to the KEITH WALKING FLOOR® bin, where visual inspection ensures quality control. From there, metered waste is processed into slurry, ground to sub-1/2” size, and pumped to wastewater treatment facilities.



Performance Highlights

- 60% Increase in food waste storage capacity
 - 85%+ Recovery rate of organic material
- Reduced Truck Unloading Time – down to ~5 minutes
- Increased Throughput – up to 20 tons per hour, up from 15 tph
- Integrated Liquid Management – excess liquid routed internally without external water

Results: The Sunnyvale facility now processes more waste, faster and cleaner, with higher recovery rates and lower contamination. The KEITH WALKING FLOOR® system is central to this improved workflow—delivering the capacity, control, and efficiency needed to meet California’s aggressive recycling goals.

Feature	Details
WALKING FLOOR® Bin	20’ long x 10’ wide, 30-ton capacity
Storage & Feed Bunker	12-ton capacity, in-ground for fast truck unloading (avg. 5 minutes)
Discharge Rate	Up to 16 tons/hour; variable floor speed from 1–4 ft/min
Visual Inspection Capability	Allows easy removal of non-organic contaminants
Liquid Containment	Channel floor slats, walls and pan retain liquid under the floor