

# *Diversion and Conversion*

## *Innovative Solutions for Commercial Organics*

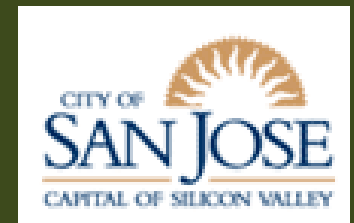


## US Composting Council

### 19<sup>th</sup> Annual Conference

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# Overview

- Current System
- Need for Redesign
- Goals of New System
- Procurement
  - 2 RFPs
  - Proposal Evaluation & Analysis
  - Compatibility / Mix & Match



# [ Current Commercial System ]

- 10,000 Businesses
- 32% of Total Waste Stream
- Non-Exclusive Franchises
- 20+ Haulers
- Volume-Based Franchise Fee



# Issues with Current System

- General Fund Instability
- Inconsistent Services
- Varied Customer Rates
- Difficult to Manage
- Negative Environmental Impacts



# Green Vision 2022

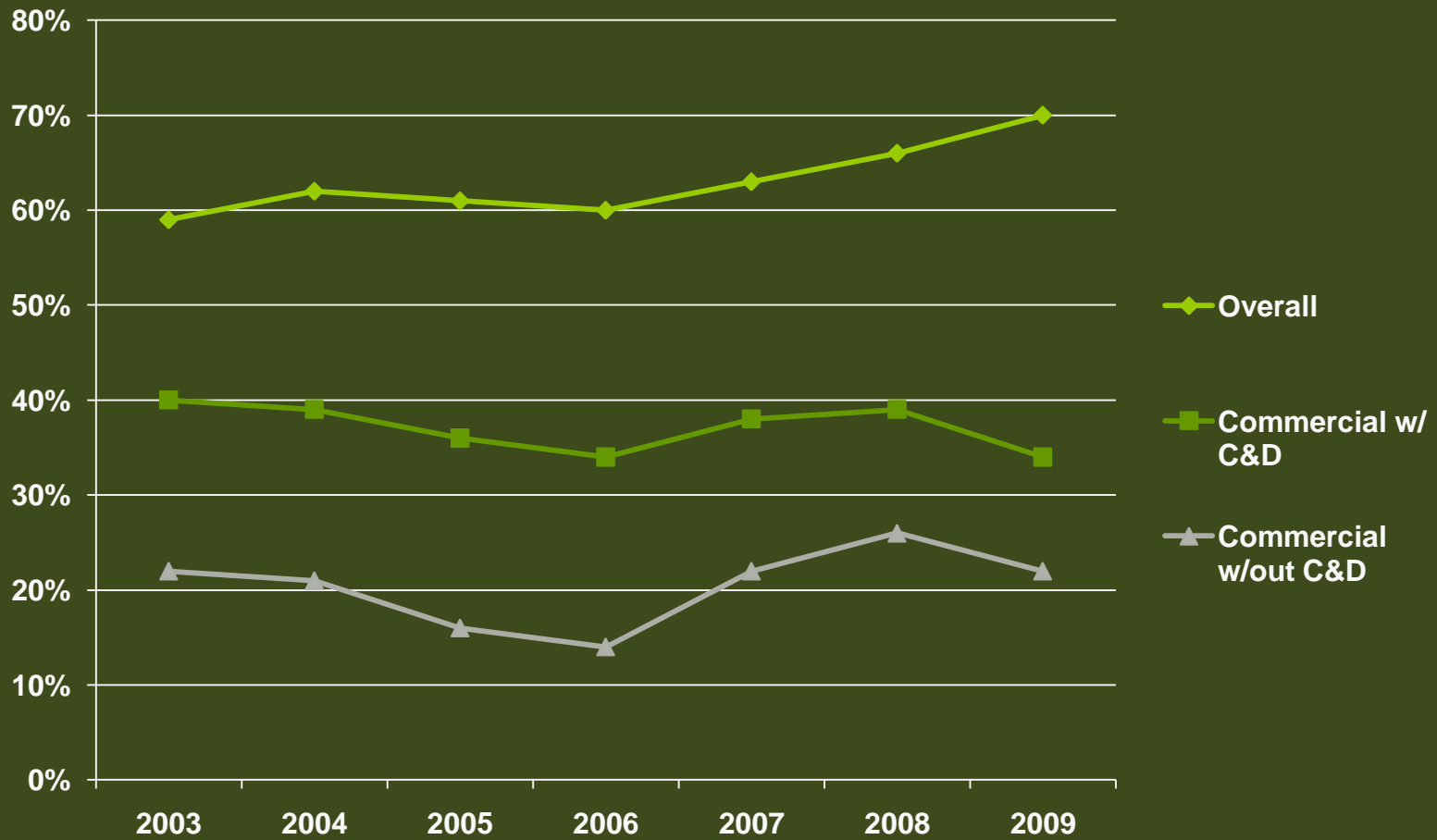
*10 Goals for Driving Economic Environmental Transformation*

## Achieve these GOALS by 2022:

1. 25,000 Clean tech jobs
2. 50% Reduction energy use per capita
3. 100% Renewable electrical power
4. 50 million ft<sup>2</sup> retrofitted green bldgs
5. **Zero Waste & waste to energy**
6. 100% wastewater beneficially re-used
7. Sustainability in General Plan
8. 100% alternative fuel City vehicles
9. 100,000 new trees planted
10. 100 miles of interconnected trails

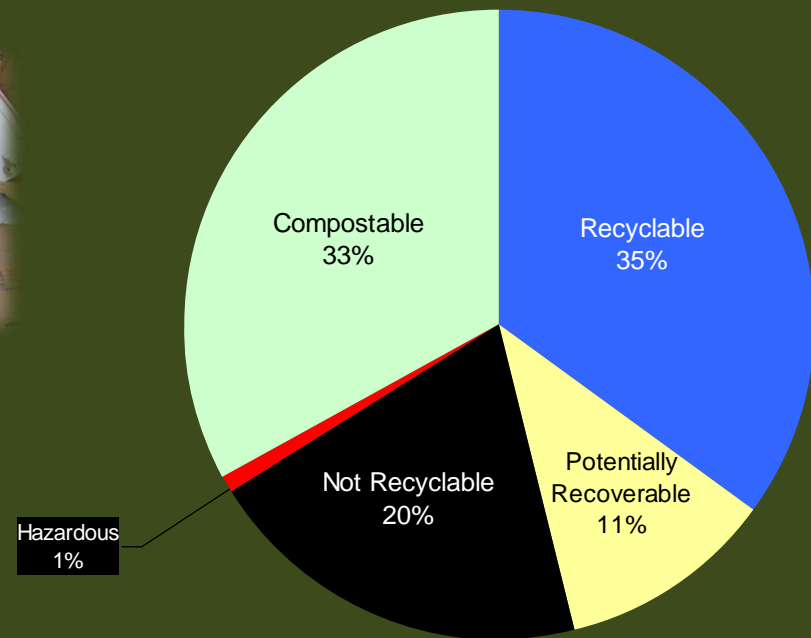


# Waste Diversion



# Waste Characterization

79% of disposed commercial garbage is potentially recyclable or compostable



# Zero Waste Strategic Plan

- Roadmap to 75% Diversion by 2013 and Zero Waste by 2022
- Commercial Redesign Goals
  - Meet San Jose Green Vision
  - Consistent Service and Rates
  - Stabilize City Revenues
  - Environmental Innovation
  - Economic Development



# *Anticipated System Features*

- Exclusive Agreements
- 75% Diversion Rate
- Fixed Franchise Fee
- Performance Standards
- 10-Year Term with 2 Extensions
- Non-Exclusive C&D



# Procurement

- Two RFPs
  - Organics Processing
  - Collection, Recyclables Processing & Disposal
- Collection Innovation Options
- Processing Options



# Evaluation

- Select Components that Best Fit Needs
- Begin with 2 Sets of Separate Ratings
- Combine Score & Cost
- Compatibility



# Organics Processing

- Innovations in Processing
  - 3 streams
  - New and old technologies
- Delivery Options
  - 4 proposals = >100 combinations
- System Combinations



# Analysis of Organics Proposals

## Feedstock

Three Organic Streams (varying contamination levels)

## Technology

- Presorting
- Anaerobic Digestion
- Composting

## Location

- Existing vs. New Facilities
- In City vs. out of City
- Transfer issues

# Assessing Organic Vendors Processing System

## High

Fully proven in numerous applications

## Medium

Used successfully at a commercial scale in a limited number of applications

## Low

Not used at a commercial scale, or used at a commercial scale but without complete technical success

# Assessing Organic Vendors Facility Availability

## High

Facility, as proposed, is available now, or there do not appear to be significant impediments to it being fully available on July 1, 2012

## Medium

Facility, as proposed, is not available now, but there do not appear to be significant impediments to it being fully available on July 1, 2012

## Low

Facility, as proposed, is not available now, and there appear to be significant environmental review, permitting approvals, and/or construction timeline requirements such that the facility is unlikely to be fully available on July 1, 2012

# Collection Proposals Analysis

- Collection Options
- Processing Options
- Vehicle Fuel Alternatives





# Collection Proposals

## Collection Analysis

- Collection Options
  - 2 Container (Wet Dry)
  - 3 Container (Blue, Grey, Green)
  - Alternative(s)



# Collection Proposals Processing Analysis

- Processing Options
  - Recyclable Only (three bin)
  - Dry (two bin)
  - All (varies)



# Compatibility (Mix and Match)

- Organics Proposals
  - Organics processing
- Collection Proposals
  - Collection system
  - Facility processing



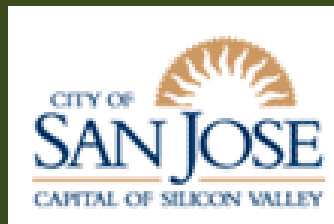
# Next Steps

- Evaluation Currently Underway
- City Staff to Recommend Preferred Vendors
- City Council Approval (March)
- Negotiations (March –June)
- Execute Agreements June 2011
- Commence Operations July 1, 2012

# Questions/Comments



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