

The Road to Zero Waste for the City of San Diego

National Zero Waste Virtual Conference

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County of San Diego Population = 3.3 million people / 18 Cities in the County

City of San Diego Population (largest) = 1.4 million people



- Collection service since 1919
- City forces currently collect from 300,000 single-family residential properties
- No service fee charged to customers due to People's Ordinance law from 1919

Where does trash go?

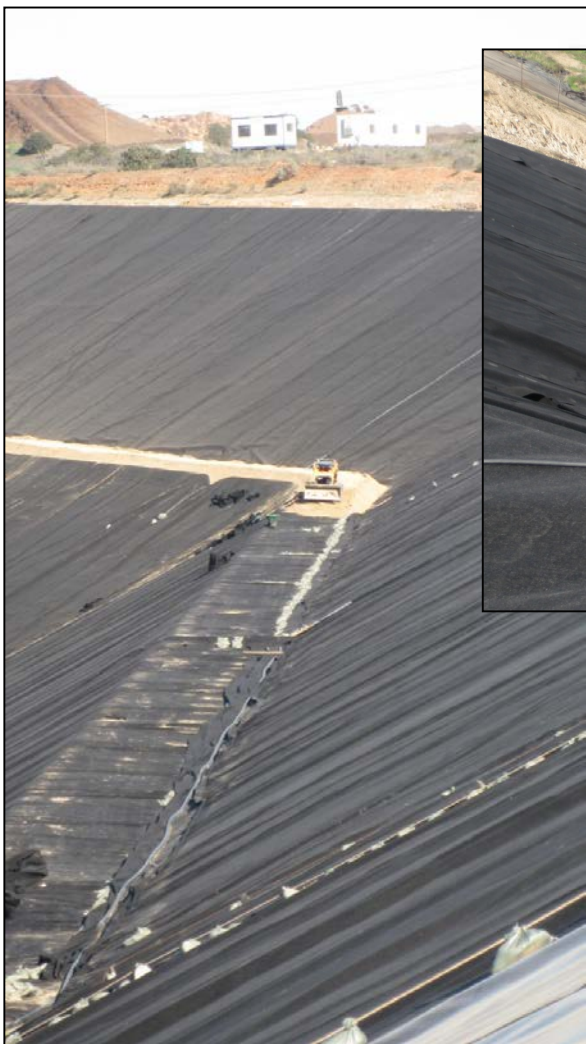
Three Landfills in our region.

Miramar Landfill is:

- Operated by the City
- Centrally located
- Estimated to close by 2028



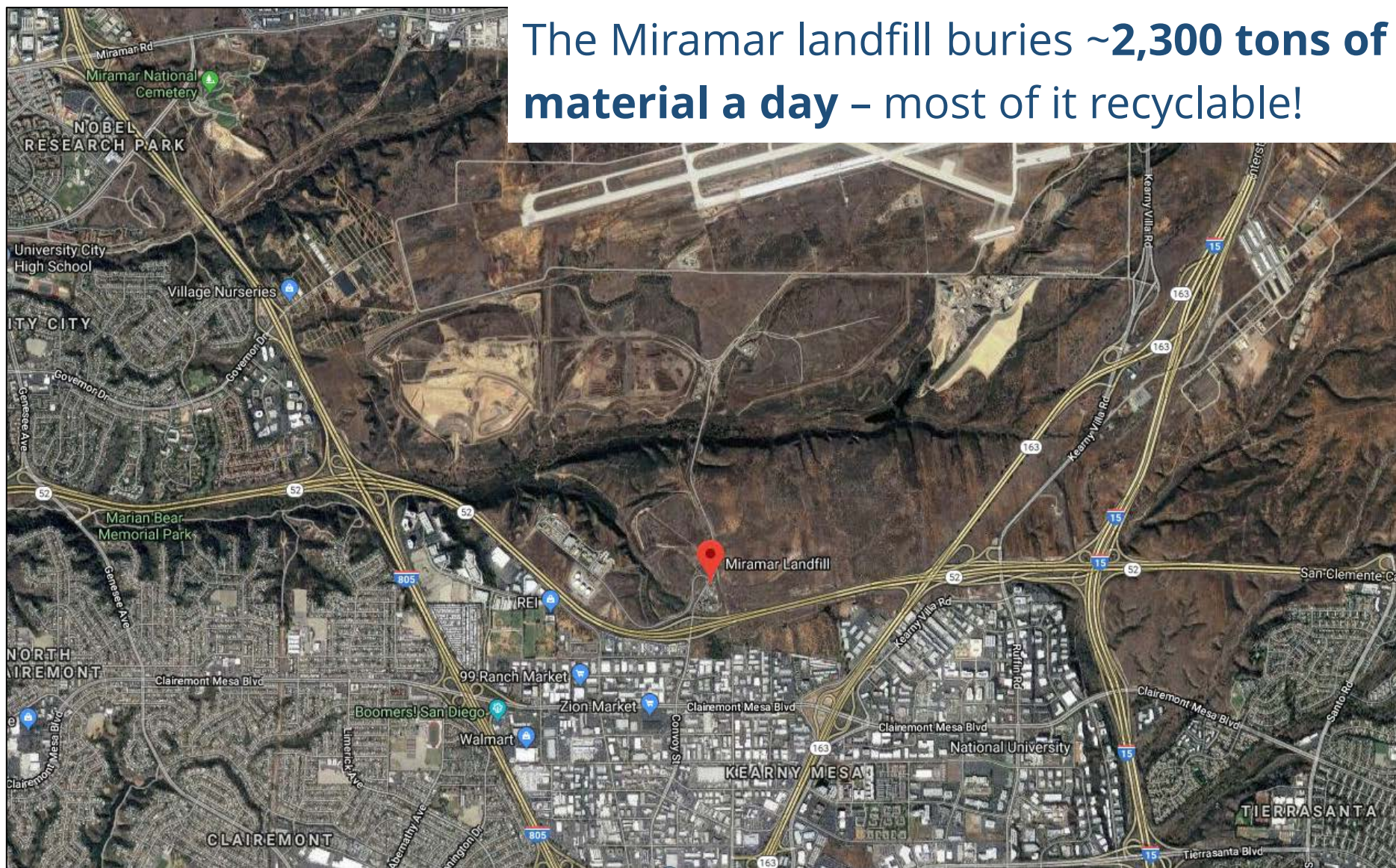
Miramar Landfill Design



- Liner and Leachate Collection System
- Landfill gas Collection System
- Feeds co-generation engines for energy



The Miramar landfill buries ~**2,300 tons of material a day** – most of it recyclable!



Miramar Landfill

Miramar Greenery



Commercial Compost Facility

- 75 Acres at Miramar Landfill
- Quality mulch, compost, woodchips
- Recycles over 105,000 tons/year
 - 7,500 tons = food
 - 3,500 tons = wood
 - Remainder = greens

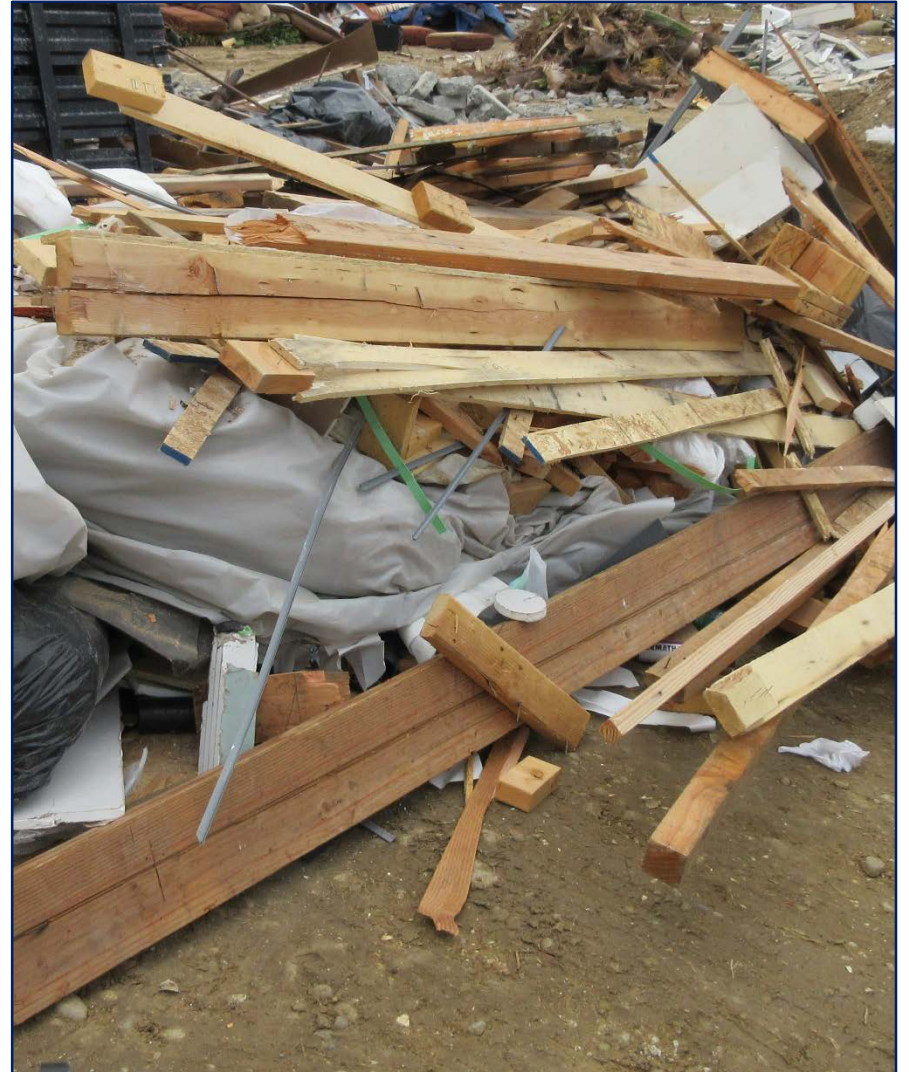
City Recycling Ordinance (CRO) - 2008



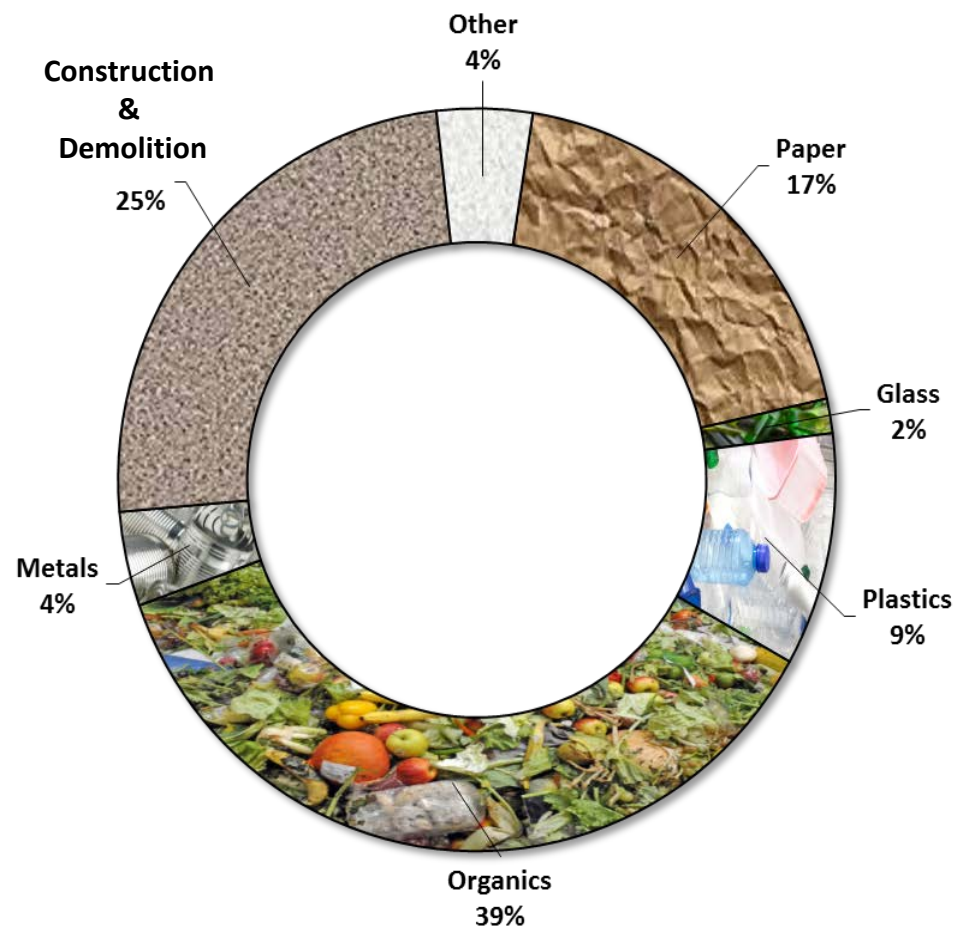
- Targets all commercial, industrial, multi-family properties and permitted special events
- Enforcement mechanism



Construction & Demolition Ordinance - 2008



What is in Our Trash?



Approximately 75% of this material could be diverted by
Reducing, Reusing, Recycling & Composting



Local City of San Diego Ordinances

City Recycling Ordinance (CRO) 2008

All single family, multi-family, commercial and industrial properties, and permitted special events must divert their recyclable materials. Education component for all commercial and multi-family properties as well.

Construction & Demolition Debris Deposit Program (2008)

Requires majority of construction, demolition and remodeling projects to divert their debris by reuse, donating, or recycling materials (think concrete, asphalt, wood, metals, etc.)

Zero Waste Plan (2015)

Lays out a plan to divert 75% of City's waste by 2020 and 100% by 2040.

Climate Action Plan (2015)

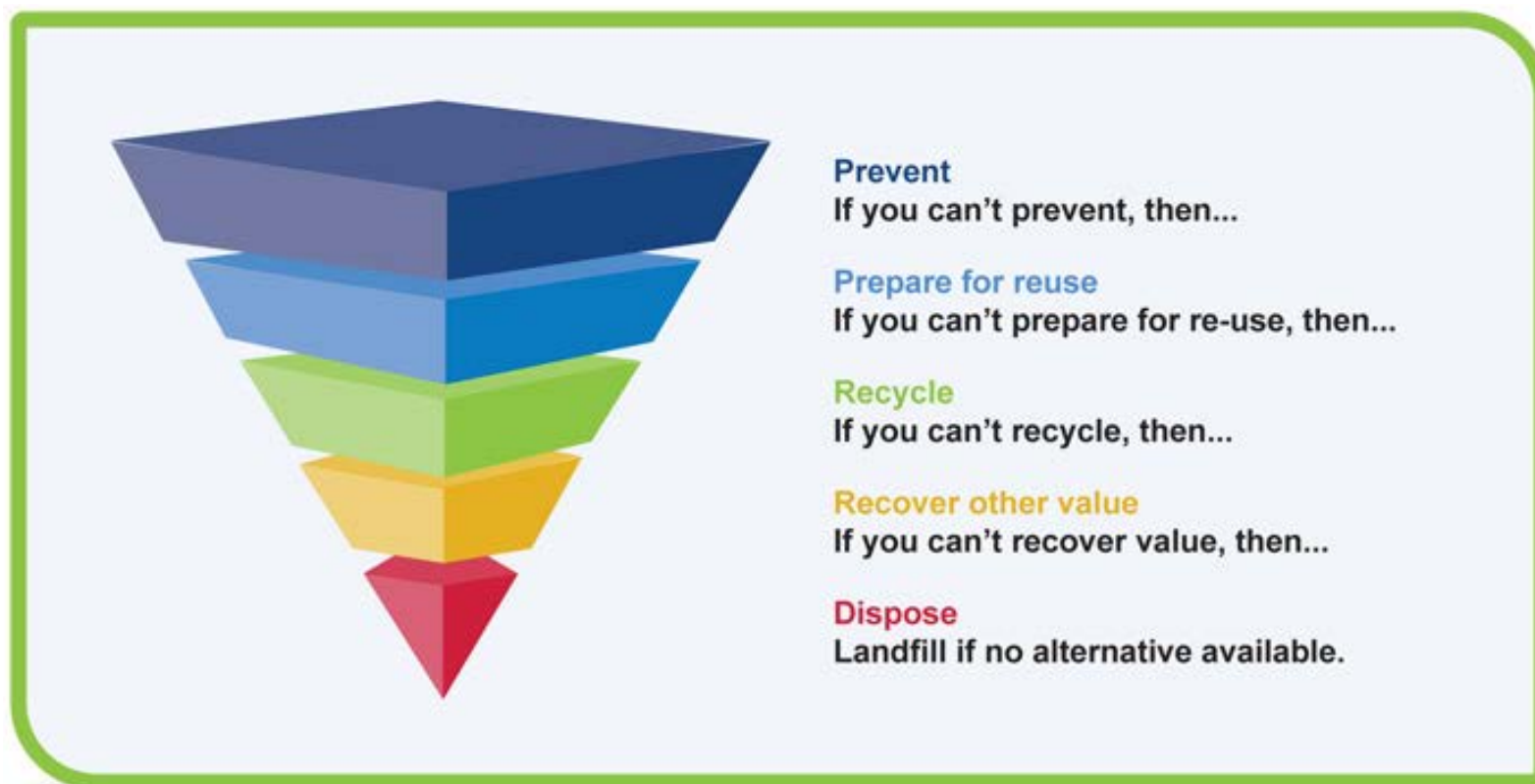
Calls for eliminating half of all greenhouse gas emissions in the City and aims for all electricity used in the City to be from renewable sources by 2035.

Polystyrene Foam and Single Use Plastics Ordinance (2019)

Elimination of polystyrene foam and single use plastic products from the City. Currently on hold due to litigation.

Zero Waste

“Zero Waste is a principle that calls for handling discarded materials as commodities for reuse rather than for disposal, and conserving those commodities through waste prevention, recycling, composting and other technologies.”



Zero Waste Hierarchy



Stakeholder Participation

Business Improvement Districts (BID)

Adams Avenue BID
BID Council Board of Directors
Gaslamp Quarter Association
College Area Business District
North Park BID San Diego

Community Groups and Residents

College Neighborhood Foundation
Community Planners Committee
Individual Residents (18)
Kensington Garden Club
San Diego River Park Foundation
Scripps Miramar Ranch Planning Group
Sustainable Scripps Ranch

Trade Groups and Associations

American Forest and Paper Association
Associated General Contractors of America San Diego Chapter
Balboa Park Cultural Partnership
Building Industry Association
Building Owners and Managers Association
Food and Beverage Association of San Diego County
IFMA
NAIOP
San Diego Regional Chamber of Commerce
San Diego County Apartment Association
San Diego County Disposal Association
San Diego Green Building Council
San Diego League of Women Voters
SD County Taxpayers Association

Zero Waste San Diego

Public Education and Outreach

I Love A Clean San Diego
Inika Small Earth
San Diego County Office of Education
Solana Center for Environmental Innovation
The 1:1 Movement

Environmental Groups

Audubon Society
OB Green Gold
Sierra Club
Surfrider Foundation
The Green Store
EcoVerse
Phoenix Foods
Zero Waste San Diego
Ssubi is Hope

Governmental Agencies and Departments

CalRecycle
City Auditor
City of Chula Vista
City of Encinitas
City of Oceanside
City of Poway
City of San Diego Parks and Recreation Department
City of San Diego Public Utilities
County of San Diego
LEA
MetroTransit System

Individual Businesses and Institutions

Bigly Enterprises
Bridgepoint Education & Ashford University
California Strategies
CP Manufacturing
Crowne Plaza Hanalei San Diego
Evans Hotels
EWR
Feeding America San Diego
Mesa College
Omnire
PK Holdings, LLC.
Point Loma Nazarene University
Recycle San Diego
San Diego Zoo
SeaWorld San Diego
Sharp Healthcare
Solar Turbines
Sony
Tap and Press
The Lodge at Torrey Pines
UCSD Sustainable Solutions
United Cerebral Palsy San Diego
WAXIE
WES
WISH

Military

MCAS Miramar
Naval Region Southwest

Non-franchised Recyclers, Thrift Stores, Reuse Retailers

Boxed Green
EcoParts
Goodwill Industries
IMS Recycling
On Site Waste Solutions
Recon Recycling
Ripple Textile Recycling
San Diego Fibers
Urban Corps
Sustainable Surplus

Franchised Haulers/Recyclers

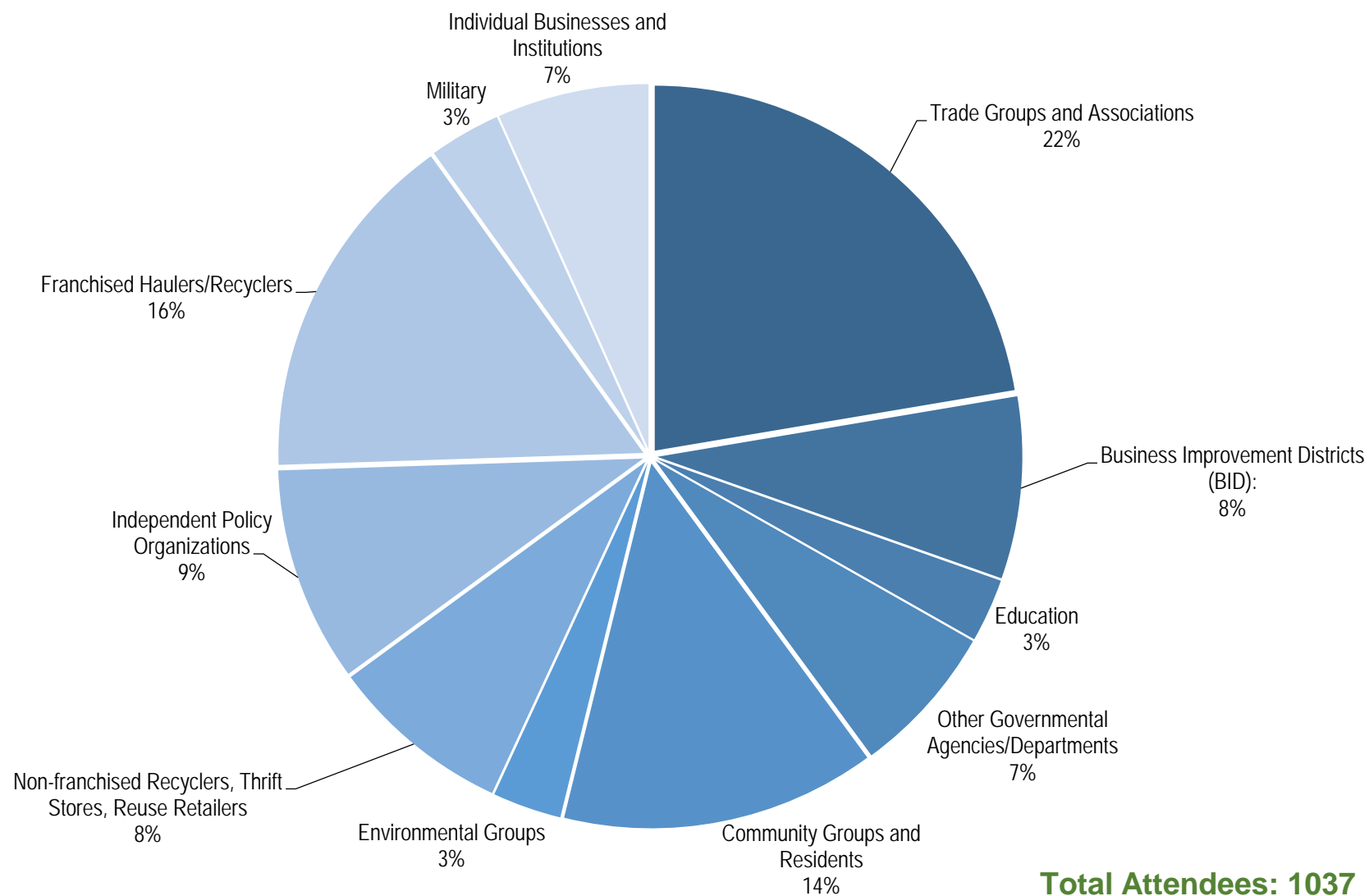
Allan Company
Daily Disposal Services
Debris Box
Dependable Disposal
Diamond Solid Waste Services
EDCO
Express Waste and Recycling
John Smith Earthworks
Republic Services
Tayman Industries
Ware Disposal
Waste Management

Independent Policy Organizations

Center on Policy Initiatives
CRRA
Equinox Center
Integrated Waste Management Citizens Advisory Committee
Integrated Waste Management Technical Advisory Committee
World Resource SimCenter (WRSC)



Environmental Services Department





Environmental Services Department

Zero Waste USA Community Planning Checklist, 2020

Enter Jurisdiction Name and Base Year

Place a Y in the column to the left of initiatives that have been implemented in your community. If in development, enter a D. Circle details - i.e. Mandatory, or change the **color** of the font.

Sector	Policies	Programs	Infrastructure
Entire Community	Zero Waste - Goal: By 20____, Plan, 20____	Zero Waste Grants - Waste Reduction	Tool Lending Library
	Goal Integration Across Plans - CAP, Sus Plan, Gen Plan	Zero Waste Grants - Collection, Processing, Mkt Dev	Water Bottle Filling Stations - Retail, Schools, Parks
	Precautionary Principle - Adoption, Integration	Zero Waste Revolving Loan Fund - Collection, Process	Retail Re-Filling Stations - Hardware
	Change Metric - Generation not Diversion	Zero Waste Revolving Loan Fund - Market Dev	Zero Packaging Store
	Involve Leadership Groups in ZW Program	Market Development - Local, Regional, State, Int'l	Museum Of Bad Design - Short Term, Permanent
	Environmentally Preferable Procurement	Rental, Reuse, Repair & Recycling Biz Directory	Resource Recovery (RR) Center
	Minimum Content Requirements	Rental, Reuse, Repair & Recycling Biz Promotions	RR Park - General, Utilizing 12 Market Categories
	Require Recyclable, Compostable or Reusable Products	Rental, Reuse, Repair & Recycling Biz Incentives	Research & Development Institute
	Take Backs - Voluntary, Mandatory	Green Product and Services - Directory, Promotions	Plastic to Oil Facility
	Bans - Sale, Collection, Disposal	LBX (Lead By Example) - Public Receptacles, Signage	Plastic Recovery Facility (PRF)
	Disposable Fee - Voluntary, Mandatory	LBX - Training, Government Facilities, Venues	Wood to Biochar
	Reusable Take-Out Packaging - Discount, Go Box, Other	LBX - ZW Events - Public, Private	Biosolids Treatment/Beneficial Reuse
	Clear Bags For All Waste Streams	LBX - Reusable Dishware and To-Go Ware	Product Redesign ala Biomimicry, Grn Chemistry
	Only Compostable Green or Brown Produce Bags	LBX - Carbon Farming for Public Lands and Parks	Other: _____
	Work on Statewide Packaging Policy Initiatives	LBX - Interdepartmental Green Team ZW Support	Other: _____
	Product Stewardship - Problem Materials	Other: _____	
	Other: _____	Other: _____	
Residential - Single and Multi-Family	Universal Service - Recycling, Composting	Behavior Change Marketing	Reuse Shed - Household Goods, Bldg Matls
	Rate Structure Incentives	Outreach - Presentations, Door-To-Door, Ambassadors	Reuse Warehouse - Household Goods
	Mandatory Participation - Recycling, Composting	Technical Assistance - Phone, Email, Events	Reuse Warehouse - Building Materials
	Mandatory Enforcement - Recycling, Composting	Bin and Cart Audits - Voluntary, Mandatory	Center For Hard To Recycle Materials
	Mandatory Source Separation - Recycling, Composting	Reuse Collection - Sorting, Upgrading, Sales	Recycling Processing
	Rate Structure Incentives	Share, Reuse, Repair Events	Yard Trimmings Processing
	Service Provider Payment Incentives	Recycling Collection - Single Family, Multi-Family	Food Scraps - Composting, Digestion
	Service Provider Minimum Requirements	Bulky Goods Collection - Reusable, Recyclable	Wood Recycling Facility, Pallets
	Other: _____	Food Waste Prevention	Wood Recycling Facility, Dimensional Lumber
	Other: _____	Food Donations - Gleaning, Food Bank, Soup Kitchen	Wood Recycling Facility, Logs
		Backyard Composting	Mixed Waste Processing (MORT) After Source Sep
		Organics Collection - Yard Debris, Food Scraps	Other: _____
		Every Other Week Collection - Trash, Recyclables	Other: _____
		Separate Collection - Diaper and Animal Waste	



State Laws

AB 939 - 1989

City Waste Diversion 50% or \$10,000 per day Fine

AB 341 - 2012

State Waste Diversion 75%

AB 32 - 2006

Organic Waste Diversion (Food Waste & Yard Waste) to
Decrease Greenhouse Gas Emissions

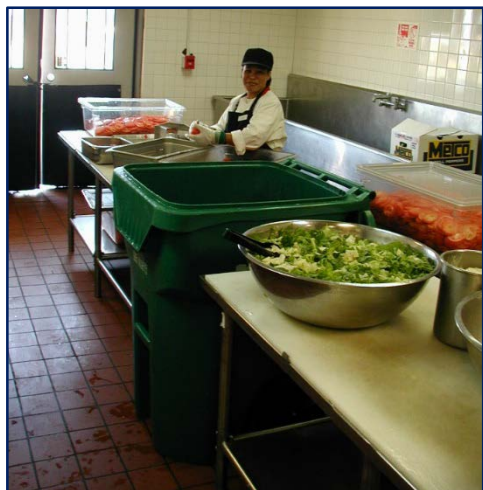
AB 1826 – 2016

Commercial Organics Recycling (Food Waste & Yard Waste)

SB 1383 – 2020

Short-Lived Climate Pollutants (SLCP): Organic Waste Methane
Emissions Reductions

Commercial Food Waste Diversion Program



Program:

- 80+ Participants
- Large Venues (Sea World, Petco Park, Convention Center, etc.)
- Commercial Kitchens
- Universities (SDSU, UCSD, and PLNU)
- Corporate Kitchens
- San Diego Airport
- Local Restaurants



Commercial Food Waste Diversion and Donation Education Outreach Recognition

**City of San Diego's
Seal of Participation
on a Surplus Food
Donation Program
in partnership with
Feeding San Diego &
San Diego Food
Bank**



CalRecycle Organics Grant

Covered Aerated Static Pile (CASP)

- Divert Additional 32,500 tons/yr
 - 12,500 tons Food Waste
 - 20,000 tons Green Waste



Kitchens For Good

- Funding for Kitchen Equipment
- Food Rescued
 - > 90,000 pounds
- Disadvantaged Communities
 - > 90,000 meals distributed



Covered Aerated Composting System (CASP)

- CalRecycle Grant
- Increase Organics Recycling



[Take A Quick Look!](#)

Polystyrene Foam and Single Use Plastics Ordinance

Restricts the sale and distribution of the following materials in the City of San Diego

- Polystyrene foam (Styrofoam) products for the use of food service ware, fish and meat trays, egg cartons, coolers, and beach toys
- Plastic and bio-plastic straws and utensils





Why Zero Waste? The Solutions

ROAD TO **ZERO** WASTE



- City Recycling Ordinance (CRO)
- Climate Action Plan (CAP)
- Zero Waste Plan
- Polystyrene Foam and Single Use Plastics Ordinance (pending litigation)
- Commercial Food Waste Diversion Program
- C&D Ordinance
- Save energy, materials, habitat
- Reduce air and water pollution, and greenhouse gas (GHG) emissions



THANK YOU

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