





WELCOME

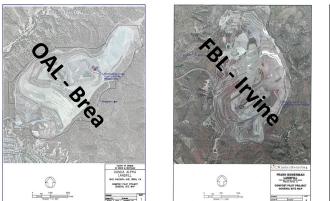
CALIFORNIA AIR RESOURCES BOARD

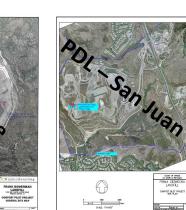
December 18, 2024 Workshop

OC Waste & Recycling – Overview

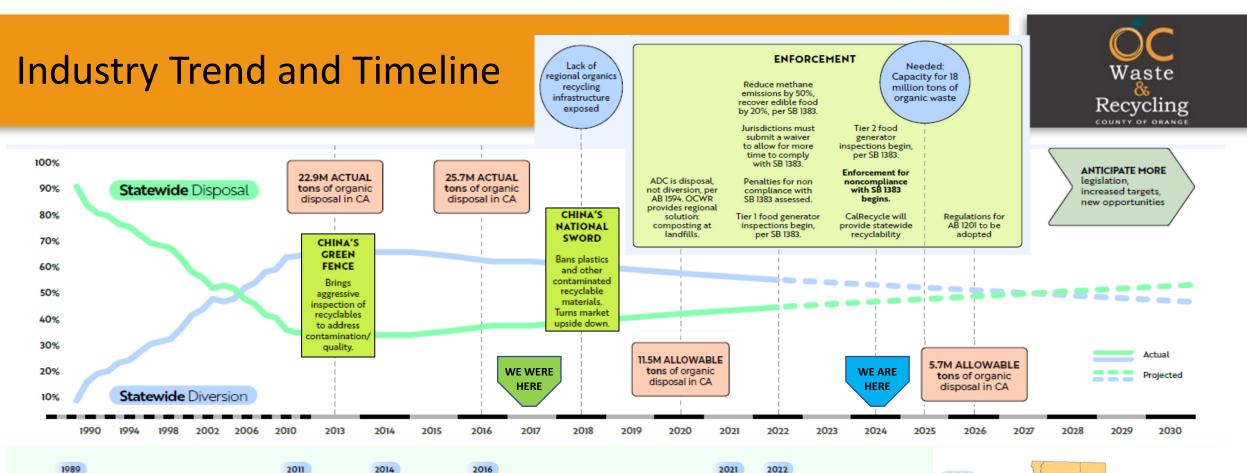


- IWMD/OCWR Established in 1940's
- Operate 3 Active landfills (1960, 1976, 1990)
- 20 closed landfills
- 4 Household Hazardous Waste Facilities
- 11 Franchise Agreements
- Compost facilities (2021, 2022, 2023)
- Mandatory Organics Recycling SB 1383
- 75% Organics from Landfill by 2025









1989

AB 939 basses CA Integrated Waste Management Act requires all jurisdictions to divert 50% of waste from landfills.

Key legislation

AB 341 passes Commercial recycling: requires 75% diversion by 2020.

requires statewide commercial recycling: 75% goal by 2020.

AB 1594 passes credit for green waste; changes status of PGM to disposal.

AB 1826 passes

organics recycling:

Commercial

SB 1383 passes Methane reduction and edible food recovery. Recover 20% of edible food by 2022; enforcement

Eliminates diversion

begins in 2024.

March 1, 2022, jurisdictions who met certain conditions were allowed to come into SB 1383 compliance without being subject to penalties by CalRecycle.

AB 1201 passes

Prohibits sale of plastic products labeled as "compostable" or "home compostable" unless product meets ASTM compostability standard by January 1, 2026.

SB 343 passes

Beginning January 1, 2024, only products meeting statewide recyclability criteria can utilize the chasing arrows symbol.

SB 619 passes AB 1985 basses

Implemented delayed enforcement for procurement targets and phased in organics procurement targets (35% on or after Jan 1, 2023, 65% on or after Jan. 1, 2024, & 100% on or after Jan. 1, 2025).

AB 1857 passes

Repeals the provision authorizing the inclusion of not more than 10% of the diversion through transformation.

SB 54 passes

Prohibits producers of single-use, disposable packaging or single-use. disposable food service ware products from offering for sale distributing or importing in or into the state.

202 SB54 Plastic Pollution Prevention 0 & Packaging Producer **Responsibility Act** Compostable plastics standards & language adoption. Recvcle Green Waste ADC Tons • 1 - 15,000 (28 facilities) • 15,000 - 50,000 (11 facilities) 50.000 - 100.000 (5 facilities)

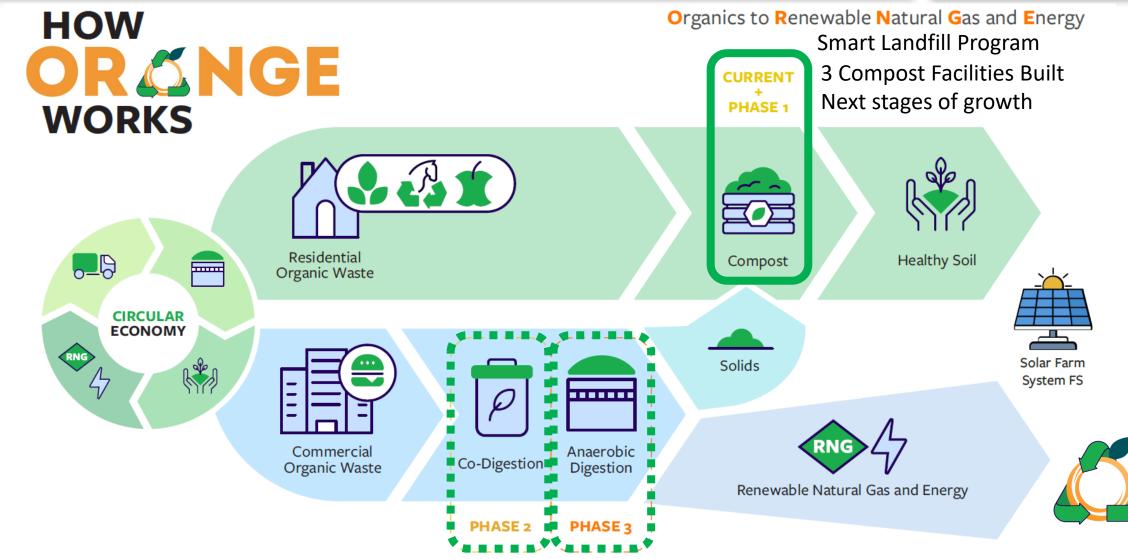
(4 facilities)

● > 100,000

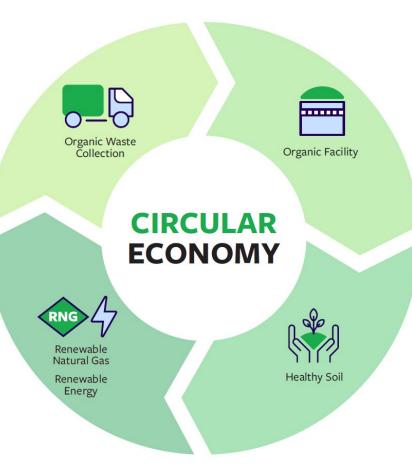
milestones

Orange is the New Green – System Concept





Path Forward: Organics Renewable Natural Gas Energy



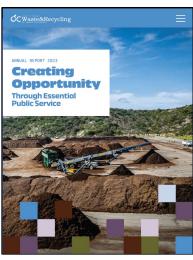
- Create local infrastructure
 - Minimize transportation with local infrastructure

Recycling

- Regenerating natural systems Healthy Soils
- Market Creation & Development
- "O.R.N.G.E." is the new Green
 - Organic Renewable Natural Gas and Energy
 - Shift in business model as an essential public service
- Smart Landfill Program GHG reduction
 - LFG to REG expand to LFG to RNG
 - Renewable energy Solar & Storage Feasibility Study
 - BAT Well Field & Emissions Management/Controls

Future for OCWR: Kaizen Mindset Continues....

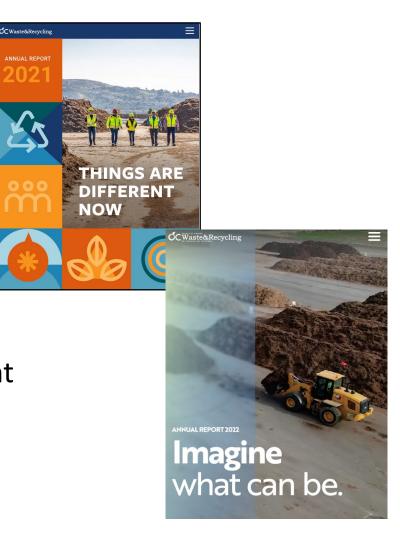
2023 Creating Opportunity



WISE Agreement:

Waste Infrastructure System Enhancement

- Windrow In Operation
- CASP In Development
- SSO/Co-digestion In Development
- AD Potential for infrastructure (FS)
- Solar Farms Feasibility SB100 (FS)
- Emerging Technologies & Processes
- Incubation for Recycling Infrastructure
- Smart Landfill Program
- WDA to WISE Agreement In Development
 - Organics & Edible Food Regional Approach
 - Market Creation & Development
 - Procurement & Compliance
 - Regional Standardization
 - Regional Collaboration





OCWR Greenery System – Phase 1A









Phase 1B – Covered Aerated Static Piles







Organic Recycling Infrastructure Plan – Phase 2



Co-Digestion (Food Waste)

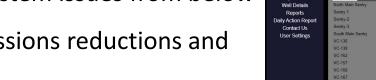
- Use of existing capacity in WWTP (OC San District)
- SSO processed to remove contamination, homogenize, direct inject into AD (OCWR Operations)
- Benefits of increased digester efficiency
 - Biogas production increase & biosolids destruction
- Requires SSO (commercial program)
 - Requires volume (WDA)
- Bridging Solid Waste and Wastewater Industries
 - Use of conversion technology



Optimization Through Smart Landfill Program (SLP)

Setting a New Standard with SLP

- Real-time emissions from above
- Real-time landfill gas collection system issues from below
- Anticipated 10% to 15% GHG emissions reductions and collection efficiency
- Increased landfill gas to energy to offset fossil fuels
- Increased organics throughput
- Landfill airspace optimization through grade control
- Foundation for future services (Source Separated Organics, Anaerobic Digestion, and Green Renewable Energy)



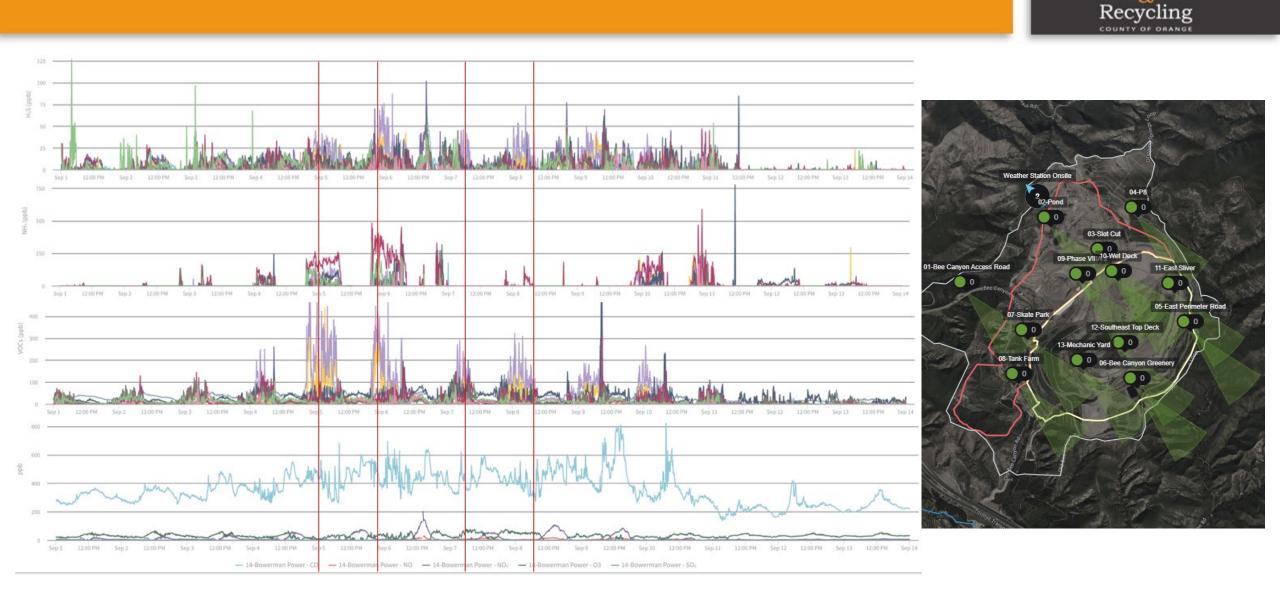








Optimization Through Smart Landfill Program (SLP)



Waste

Thank you

David Tieu, PE, CCOM[™], Deputy Director