

Turning to Zero Waste - Meeting New Commitments







San Francisco





Long History of Resource Recovery



California Legislative Goals AB 939 - 50% Diversion by 2000, passed in 1986 AB 1383 -75% Organic waste reduction by 2025, passed in 2016-18







Goals and Achievements

- 75% diversion by 2010 and zero waste to landfill or incineration by 2020
- Achieved 80% diversion in 2010

 Halved landfilling in 10 years to least on record

 Added new infrastructure, equipment and programs to increase diversion in

Strategy



- Establish convenient programs
- Conduct extensive public outreach
- Provide generator and service provider incentives
- Adopt policies and increase enforcement





GCAS Zero Waste Pledge #1

Reduce municipal solid waste generation per capita by 15% by 2030





Three Streams





New Zero Waste Commitments





Residential Sector Results



350,000 households (~150K SF & 200K MF)

8700 apartment buildings

(6+ units)

99% have recycling

99% have composting







Residential Food Scraps Collection



Food Scrap Collection is Easy.













QUESTIONS? RecologySF.com/compost





Apartment Building 3 Stream Collection





Web Resource: Custom Sign maker



STEP 1: CLICK ON THE SIGN YOU WANT TO CREATE











Composting Benefits Promoted To Public 4



RECOLOGYSF.

Recology Sunset Scavenger and Recology Golden Gate, your local recycling companies

- RECYCLE
- 2 COMPOST
- TRASH

Our top 10 reasons to compost

- 10: Compost is a good alternative to chemical fertilizers because compost doesn't pollute groundwater, wells, or waterways.
- 9: Compost keeps organic materials out of landfills, which reduces methane gas emissions.
- 8: Compost sequesters carbon deep in the soil, especially when used to grow cover crops like mustard or beans.
- 7: Compost promotes healthy microbial activity in soil, providing micronutrients to plant roots and discouraging soil diseases.
- 6: Compost improves soil structure, thereby protecting topsoil from erosion.



- 5: Soils fed with compost retain more rainwater, conserving this precious resource.
- 4: Compost helps grow plants rich with nutrients that sustain your good health.
- 3: It's easy and satisfying.
- 2: Compost collection programs support green jobs.
- 1: Composting turns food scraps into fruits, vegetables, and fine wines. Bon appetite!

Share your top reasons to recycle and compost at RecologySF.com/ContactUs



Apartment & Commercial Assistance



Presentations



Waste audits



Multi-lingual training



Monitoring



COMPOSITION ONLY

WASTE ONLY

Containers, Signs and Stickers











Commercial Sector Results

• 90,000 businesses

• 16,040 service accounts

99% recycling compliant

99% composting compliant









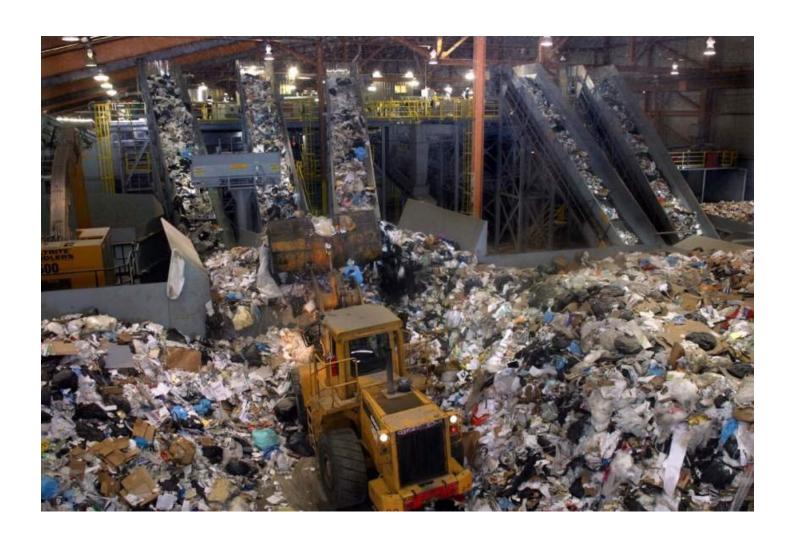
Recyclables







Recycling Facility







What's Compostable in San Francisco?





Composting Facility



New technology allows 600 tpd within strict CA Air Resources Board VOC emissions level





Engineered Compost System (ECS)

Organics Loop









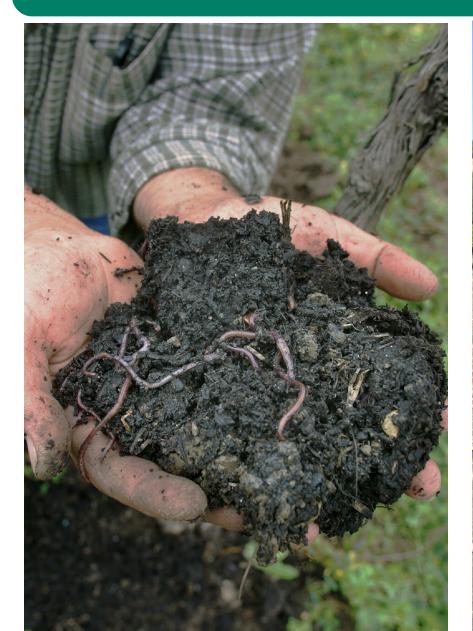
Compost





Compost Makes Healthy Soil & Great Wine



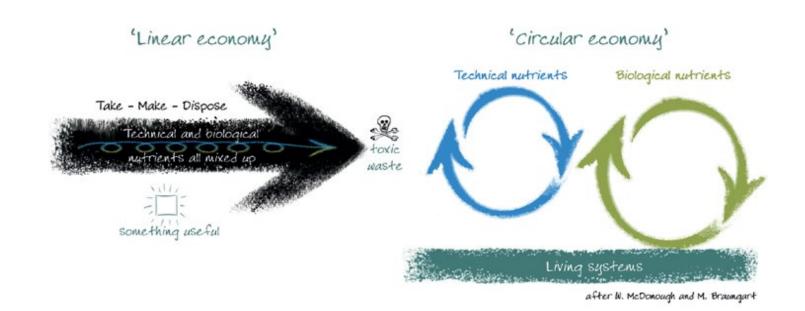








Shift from Linear to Circular Economy





California's Black Gold



Trash









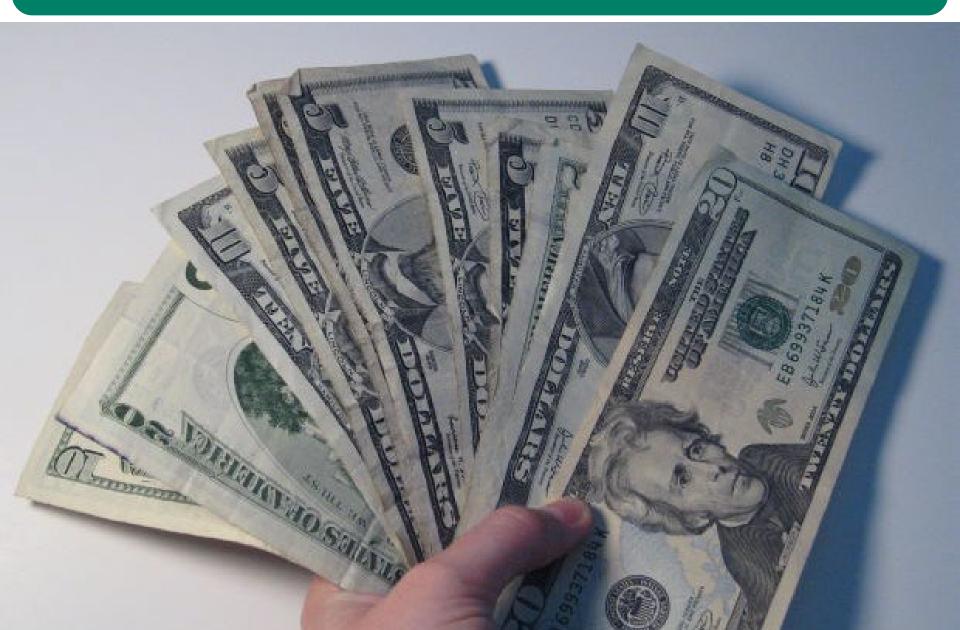






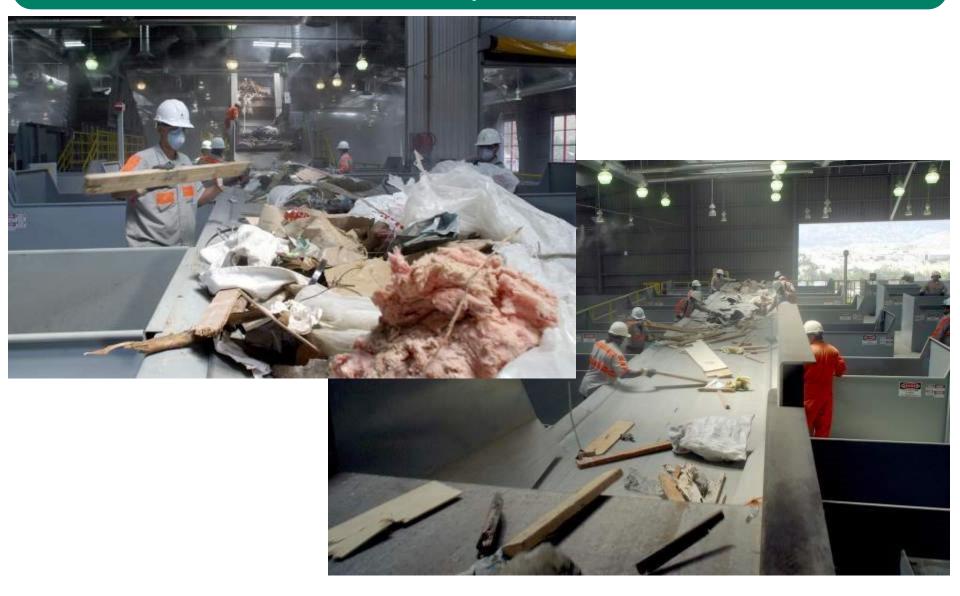


Zero Waste Incentives





C&D Debris Recovery Ordinance





Mandatory Recycling & Composting



Styrofoam, Bottled Water and Bag Bans







Producer and Consumer Responsibility



Food Scrap Digestion to Energy Process





Clean World Food Digestor and Fuel Facility - Sacramento





Compost Used On Organic Farms And Vineyards To Build Healthy Soils







Compost Also Makes Healthy Fruit





And Happy Farmers



This is soothing to the climate





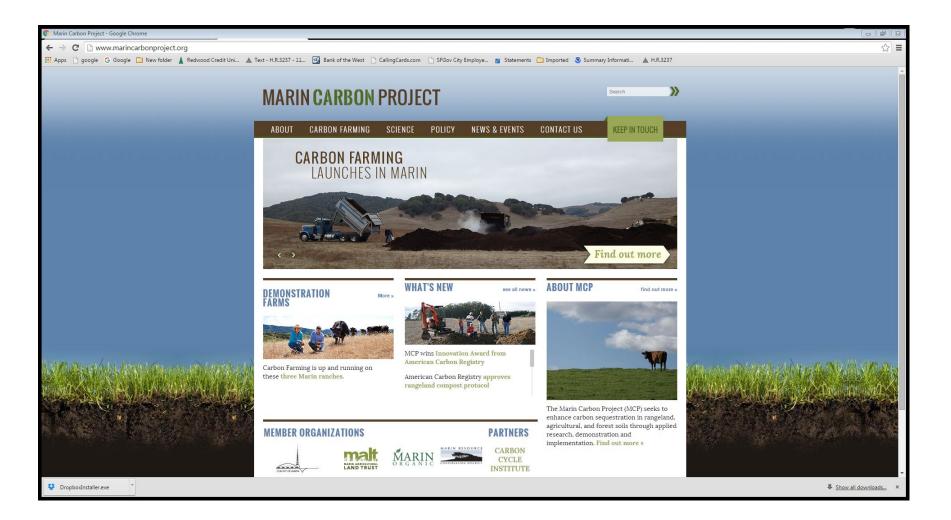


COMPOST IS KEY!



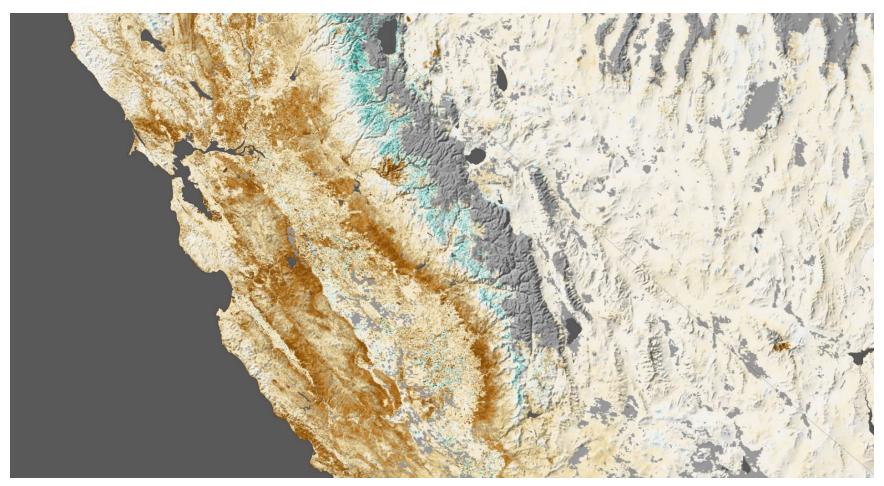


Marin Carbon Project website





California Drought 2014



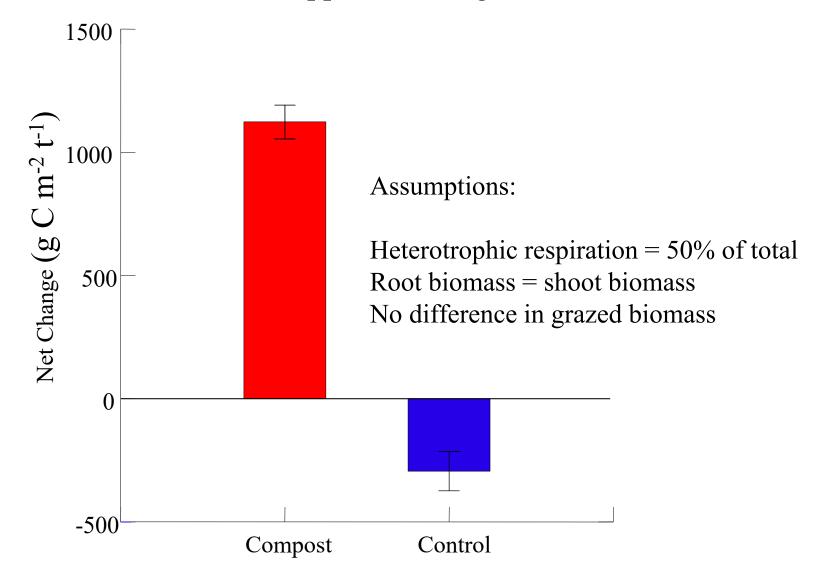
California is in the third year of one of the state's worst droughts in the past century, one that's led to fierce wildfires, water shortages and restrictions, and potentially staggering agricultural losses.





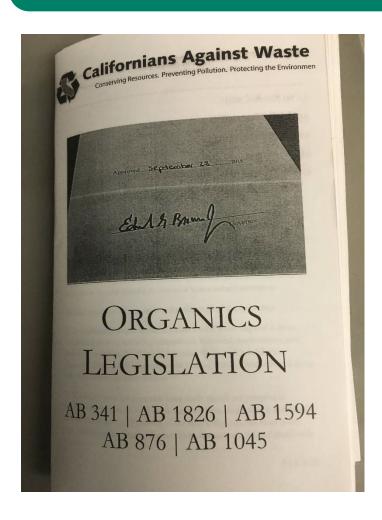
Organic amendments increased system carbon by over 14.8 Mg C/ha in year 1; net gain, beyond compost additions was approx. 0.8 Mg C/ha.





California charts an organic recovery future - SB 1383





Starting with the passage of AB 32 the Climate in 2005, California has moved aggressively to address climate change.

In the past 10 years 6 additional laws were signed by Governor Brown that will shape the future of the state's economy. It will be focused on organics recovery, using compost to promote soil health, water retention for drought protection and increased sequestration of soil carbon.





Kevin Drew

Senior Zero Waste Specialist - Retired

drewqq@gmail.org WhatsAp 415-939-5302



© 2013 SF Environment All Rights Reserved

The author of this document has secured the necessary permission to use all the images depicted in this presentation. Permission to reuse or repurpose the graphics in this document should not be assumed nor is it transferable for any other use. Please do not reproduce or broadcast any content from this document without written permission from the holder of copyright.

Unprecendented global cooperation and participation will be necessary



Cities must adopt Zero Waste with comprehensive organics recovery

Citizens must separate their organics

Countries must cooperate to assure science is implemented correctly and measured

7 countries have enough rangeland to be able to accomplish this critical task: Brazil, USA, Canada, Mexico, Russia, China, Mongolia

We need to treat 30-40% of the 3 Billion hectares of total rangeland

That's about 770 Million hectares, or 2 Billion acres



Trash Processing





SF Zero Waste Policies

