



Anaerobic Digestion *a Regional Solution to Organics Recycling in California*

Presentation for
Environmental and Energy Study Institute (EESI)
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California's New Organics Recycling Mandate

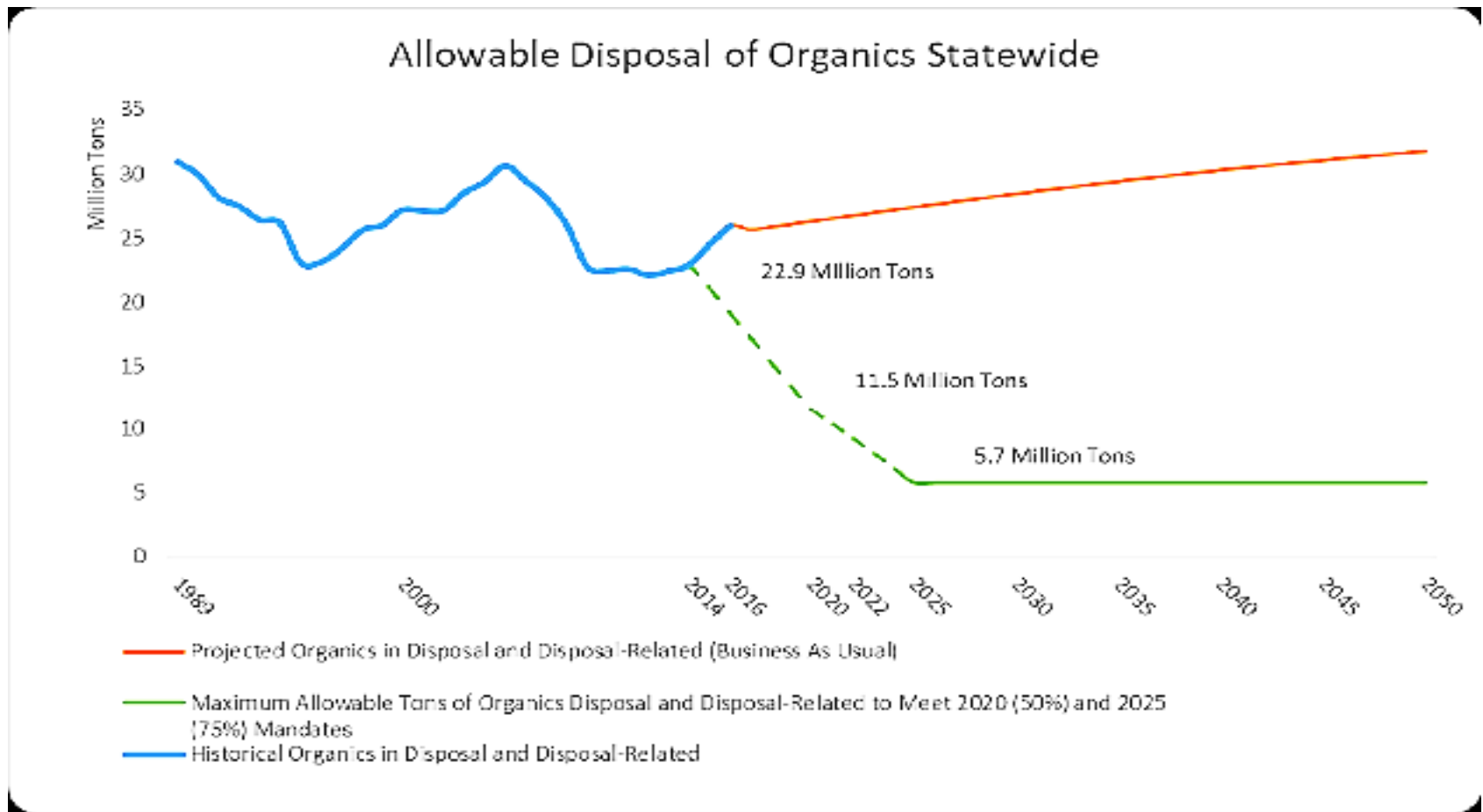
2014: 23MM tons digestible and compostable organics disposed in CA landfills

California SB 1383

- A **50-percent reduction** in the level of the statewide disposal of organic waste from the **2014 level by 2020.**
- A **75-percent reduction** in the level of the statewide disposal of organic waste from the **2014 level by 2025.**

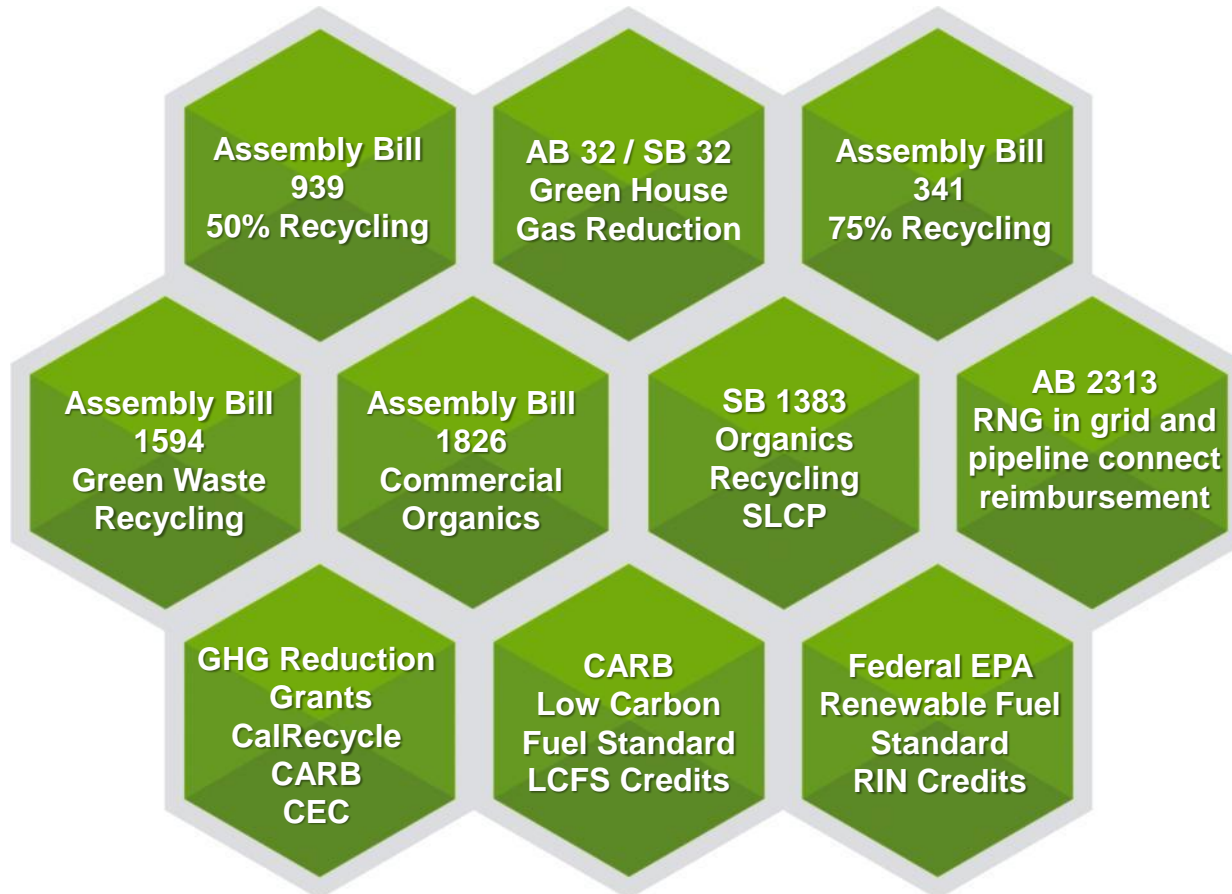
(California HSC 39730.6)

California's New Organics Recycling Mandate



Source: CalRecycle Presentation - SB 1383 Short-Lived Climate Pollutants (SLCP) Organic Waste Methane Emissions Reductions

Regulatory Drivers and Financial Incentives



REGIONAL ORGANICS ANAEROBIC RECOVERY FACILITY, PERRIS, CA



CR&R ROAR FACILITY VITAL STATISTICS

CAPACITY: 320,000 Tons Per Year in 4 equal phases

FEEDSTOCKS: Municipal source separated yard waste and food waste

LOCATION: Perris, Riverside County, CA

START-UP:

Phase 1: September 2016

Phase 2: March 2018



CR&R ROAR FACILITY VITAL STATISTICS

PRODUCTS (full build out)

RENEWABLE FUEL

Renewable Natural Gas (RNG)

4 Million Gallons per year (gge)

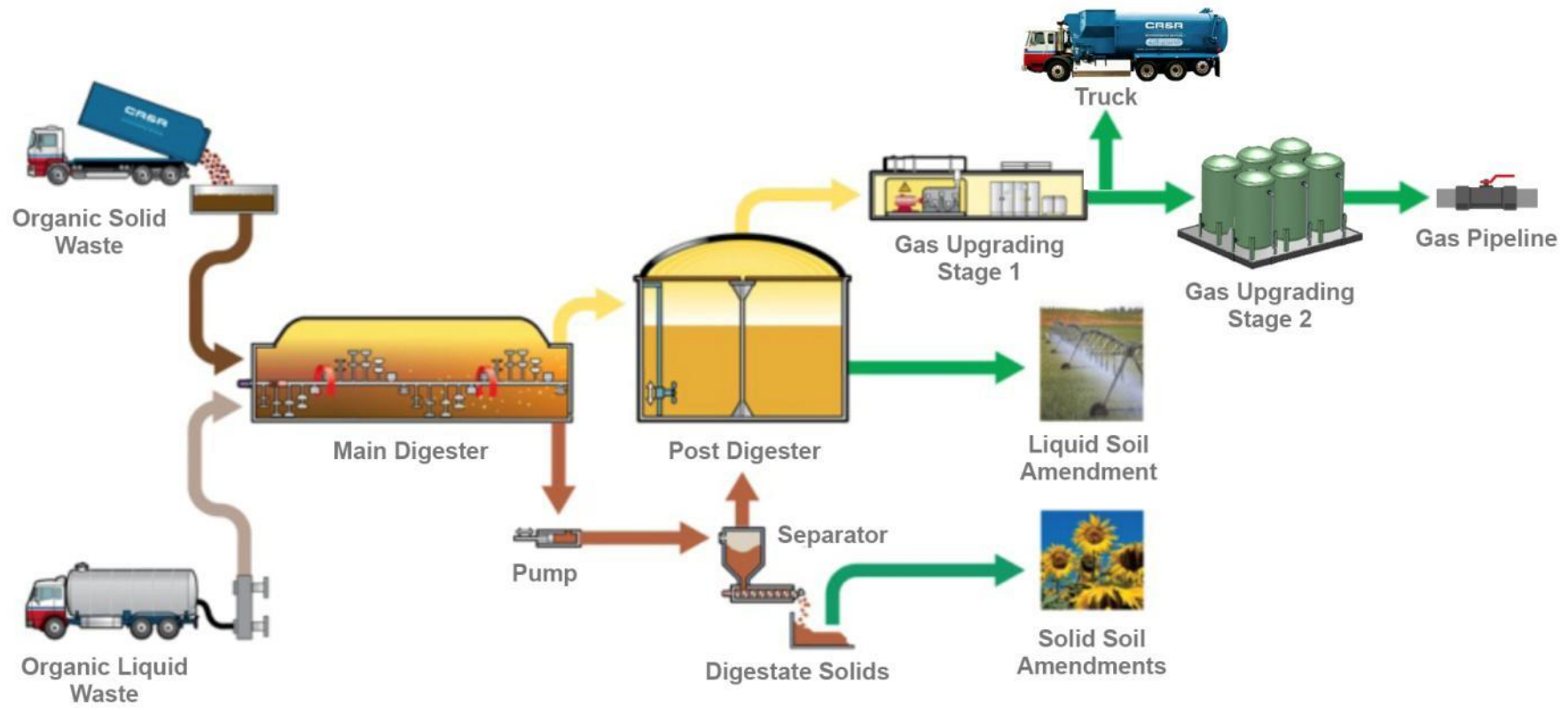
COMPOST

Retail soil blends – bagged quality

150,000 tons per year



ANAEROBIC DIGESTION - FLOW CHART



ANAEROBIC DIGESTION PROJECT OVERVIEW



We will convert all of organic (yard and food) wastes into compost and renewable natural gas the (RNG) to run our truck fleet.



This program will keep organic wastes out of the landfill where they would naturally degrade and release methane into the atmosphere.



Methane is 84 times more damaging to the atmosphere than carbon dioxide. Burning RNG in our trucks destroys Methane.



Renewable Natural Gas (RNG) has a much lower carbon intensity than fossil gas. Powering heavy duty trucks with RNG reduces emission by 90% vs diesel combustion.



Anaerobic digestion (AD) is simply replicating Mother Nature in a more controlled and cost effective environment.



CR&R Anaerobic Digestion Facility, Perris, CA



Control Building



Organics Sorting Facility



On-site Laboratory

CO-PRODUCTS: ORGANIC SOIL PRODUCTS



Grow Rich Compost



SoCalGas Pipeline Interconnect- Point of Receipt



RNG Filling Station, Perris, CA



Near Zero Emission Trucks





RNG filling Station, Garden Grove, CA

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