

Impacts of New Legislation on Conversion Technologies

LOS ANGELES COUNTY INTEGRATED WASTE MANAGEMENT TASK FORCE
ALTERNATIVE TECHNOLOGY ADVISORY SUBCOMMITTEE

Overview

- Summary of solid waste processing technologies
- CT Developments in the US and California
- Misconceptions of CTs
- Senate Bill (SB) 54 and Assembly Bill (AB) 1857
- Recommendations to advance CTs



	Pathway	Process	Suitable Feedstock	AB 939 Diversion Credit?	CSE?	
Diversion	Anaerobic Digestion	Biological	Organic waste	Yes	No	Biogas (Biomethane) RNG
	Composting					
	Biomass Conversion	Thermal	Biomass			
Disposal (Need to Change This)	Biosolids Conversion	Thermal	Biosolids / Digestate (sludge)	No	Yes	SYNGas ---RNG (electricity, hydrogen)
	EMSW AB 1126 (2013)		MRF Residuals used for fuels, etc.			
	MSW Conversion		MSW			
Disposal	Landfill...Incineration		MSW	No	Yes	

CT Facilities in the United States



Phoenix Energy



Red Rock Biofuels

Demonstration Projects



Sierra Energy

Kore

Misconceptions



CTs are incinerators in disguise.

CTs are different from incinerators because they do not burn waste.

CTs will continue to pollute the air.

CTs generate minimal air pollutants.

CTs discourage source reduction, resulting in extraction of fossil fuels and continued transport of plastic waste.

CTs are needed to manage plastics that cannot be prevented or recycled. CTs also create renewable fuel and other products which reduce transportation emissions and fossil fuel demand.



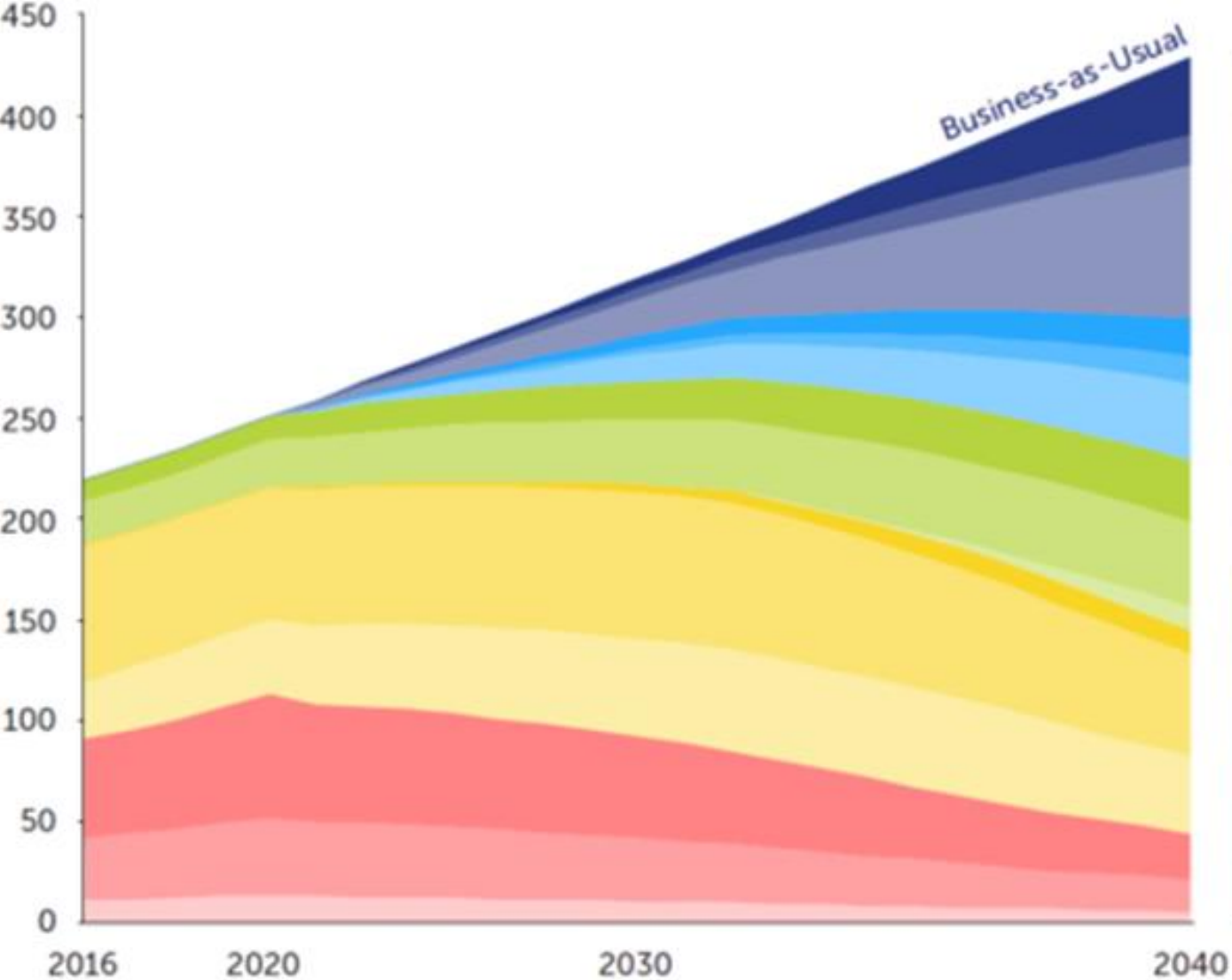
SB 54 and AB 1857



- **SB 54** requires plastic packaging to be recyclable but excludes CTs from acceptable recycling practices.
- **AB 1857**
 - repeals 10% diversion credit for transformation and CTs.
 - prohibits proposed Zero Waste Equity Grant funding to be used for CTs.

“Wedge Analysis” graph from PEW research.

Million metric tons per year



CTs are not for Organic Waste

Examples



Anaerobic Digestion
Composting



Biomass Conversion

CTs are not for the Following

Ordinance or Legislation to Prohibit/Reduce sale of Product: Examples

Single-use



Reusable

Difficult to recycle



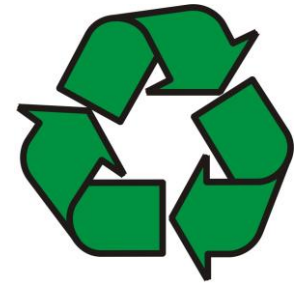
Compostable
or
Recyclable

Hazardous



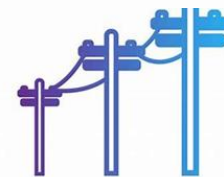
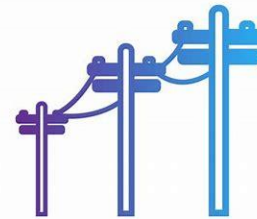
Alternative
commodity

Extended Producer Responsibility Circular Economy -Examples



No Circular Economy - CTs???

Examples



Organic Waste

- Anaerobic Digestion
- Composting

Biomass

- Biomass Conversion

Biosolids/digestate

- Biosolid Conversion

MRF Residuals

- EMSW

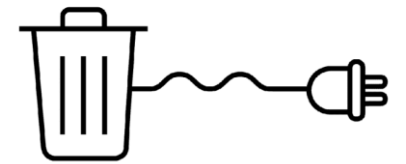
AB 939 Diversion

Disposal

Recommendations



or



Discussion

