

Technical Discussion

Anaerobic Digestion of Materials from the Collected Waste Stream

Alternative Technology Advisory Sub-committee

May 16, 2024









Disposal

California - 2017



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California - 2017



tetra tech JRMA

California - 2017



TETRA TECH

California - 2017



TETRA TECH





























Goal of SB 1383: Reduce landfill disposal of organics by 75%

Disposal

Example Projects

1. Zero Waste Energy

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Zero Waste Energy Development Corporation

Zero Waste Energy Development Corporation

- Feedstock:
 - Mixed-waste MRF residuals, rejects 30-40%
 - Green waste, rejects approx. 5%
- Commenced operations: January 2014
- Started receiving green waste: March, 2018
- Average throughput:
 - 90,000 TPY MRF residuals
 - 25,000 TPY Green waste
- Total landfill diversion Approx. 750,000 T

Example Projects

Zero Waste Energy
LA County Sanitation Districts

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LA County Sanitation Districts

LA County Sanitation Districts

- Feedstock: Source-separated Commercial food waste
 - Rejects Approx. 5% (mostly packaging)
- Commenced operations: March 2019
- Design capacity: 200 TPD
- Average throughput: 140 TPD
- Total landfill diversion Approx. 150,000 T

Example Projects

- . Zero Waste Energy
- 2. LA County Sanitation Districts
- 3. CR&R Bioenergy Facility

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CR&R Perris Bioenergy Facility

CR&R Perris Bioenergy Facility

- Feedstock: Residential yard waste plus food scraps
 - Food scraps Approx. 5%
 - Rejects Approx. 4% (mostly plastic bags, inerts, and stumps)
- Commenced operations: June 2017
- Digestate to composting and field application
- Design capacity: 160,000 TPY
- Average throughput: 110,000 TPY
- Total landfill diversion Approx. 750,000 T

Example Projects

- 1. Zero Waste Energy
- 2. LA County Sanitation Districts
- 3. CR&R Bioenergy Facility
- 4. HZI San Luis Obispo

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HZI – San Luis Obispo

HZI – San Luis Obispo

- Feedstock: Residential yard waste plus food scraps
 - Food scraps Approx. 8%
 - Rejects Approx. 6-8% (mostly inerts, and stumps)
- Commenced operations: April 2019
- Design capacity: 36,500 TPY
- Average throughput: 32,000 TPY
- Total landfill diversion Approx. 144,000 T

Discussion

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