LA Waste Franchise Organization

- TS / MRF: 5,000 tpd
- WM Franchise Zone: ~15k accounts
- Rialto Bioenergy Facility: 1,000 tpd
Rialto Bioenergy Facility Process
Rialto Bioenergy Facility

5.7 acres
Overall Facility

- RNG
- Admin. building
- Receiving bins
- Pre-processing
- AD tanks
- Biogas cleaning
- Dewatering
- Dried Solids Storage
- Pyrolysis
- Dryers
- CHPs
- WWTP
- Odor Control
Reusing an existing site

Scale

Receiving pits

Storage silos

Dewatering

Storage silo

RTO
Pre-Processing
Organics Extracted from Solid Waste
Receiving bins (3)
Enclosed live bottom bins
Plastics and Grit Removal
Wet Fraction in Digesters (2)

3.5 million gallons each!
Dewatering
Centrifuges
Dry Fraction In Dryers (2)
Biogas → CHP (4.6 MWe)

Max capacity: 5 MW
Max export: 3 MW

For Category 1 starting Oct 2018
https://scebiomat.accionpower.com
Microgrid

- Microgrid controller:
  - Island mode
  - Load shedding
  - Tie line control
  - Re-synchronization

- Battery (400 kW / 2 MWh)

- CHP (4.6 MW)

- Onsite uses
- Grid export (max 3 MW)
Biogas → RNG

Biogas Upgrading onsite

SoCalGas Rule 30 Specs
Min 990 BTU/ft³
(Enbridge: min 966 BTU/ft³)

RNG Point of Receipt onsite

1,200 scfm injected into SoCalGas pipelines

Potential Revenues

- NG sale
- Federal RIN
- California LCFS
**Odor Control**

- NH$_3$ scrubber
- RTO
- SO$_2$ scrubber
Water Management

Recycled water
Overall outcomes

Pre-processed SSO
700 tpd from Sun Valley TS/MRF

Dewatered WWTP sludge
300 tpd

RIALTO BIOENERGY FACILITY

ELECTRICITY
BioMAT FIT with SCE
3 MW export to the grid

RNG
1,200 scfm injected into SoCalGas pipeline

BIOCHAR
26 tpd
Timeline

2017-2018  30% Design
2018-2019  30-100% Design
2018-2020  Demolition and Construction
2020      Commissioning
Rialto Bioenergy Facility Under Construction
Rialto Bioenergy Facility Under Construction
Rialto Bioenergy Facility Under Construction
Rialto Bioenergy Facility Under Construction
Rialto Bioenergy Facility Under Construction
Rialto Bioenergy Facility Partners