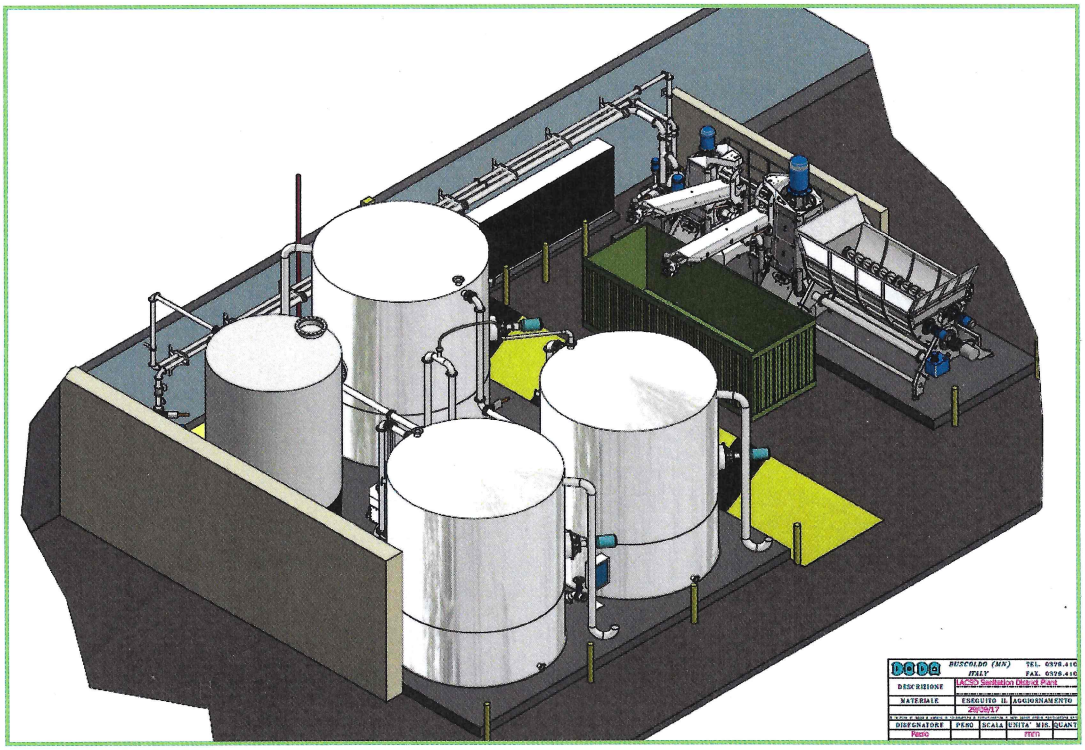
Doda Food Waste Processing at Puente Hills Materials Recovery Facility (PHMRF)

The Doda Bioseparator Facility, as shown in the 3D rendering below, will process source separated food waste into clean, pumpable slurry that will be transported to the Joint Water Pollution Control Plant (JWPCP) in Carson, CA. There it will be co-digested with municipal wastewater sludge that will produce renewable energy in the form of digester gas. Construction of the Doda Bioseparator Facility is anticipated to be completed and producing food waste slurry by April 2018.

Source separated food waste is collected by independent haulers and brought to the food waste tipping floor area inside the PHMRF. The food waste is loaded into the Doda feed-in hopper and automatically augured into the Doda primary separator where the material is churned and forced through a 15 mm screen. Inerts are rejected to a nearby waste hopper for disposal. Reclaimed water is added to dilute the food waste slurry into a pumpable solution, approximately the consistency of cooked oatmeal. The slurry is then passed through the Doda secondary separator using an 8 mm screen where the material is further cleaned and "polished" of inerts. The food waste slurry is pumped into one of three storage tanks and then loaded into 5,000 gallon tanker trucks for delivery to the JWPCP.

The Districts' ultimate goal is to process up to 165 tons per day of diverted food waste at the PHMRF for delivery and digestion at the JWPCP. When co-digested with sludge, 165 tons of food waste will produce up to 440 scfm of biogas equivalent to 1.6 MW of electricity or 2,800 gasoline-gallon-equivalents (GGE) per day of renewable natural gas for vehicles.



Rendering of DODA Food Waste Processing Facility at PHMRF – Plan View