



VIRTUAL TOUR OF FOOD WASTE RECYCLING PROGRAM

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February 4, 2021





**LOS ANGELES COUNTY
SANITATION DISTRICTS**
Converting Waste Into Resources

OUR MISSION

To protect public health and the environment through innovative and cost-effective wastewater and solid waste management and, in doing so, convert waste into resources such as recycled water, energy, and recycled materials.



WATER RECYCLING



GREEN ENERGY



MATERIALS RECYCLING

LA Co. generates 21 million tons of waste a year.

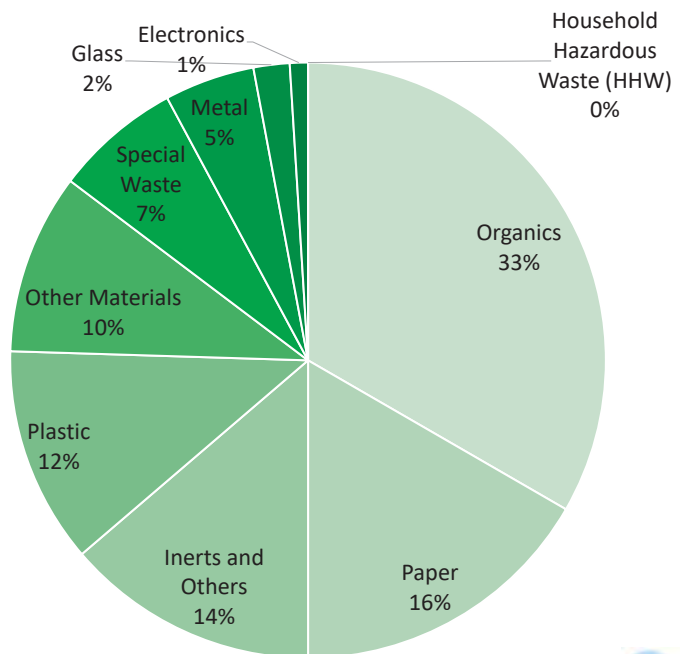


About 9 million tons a year is buried in landfills.



9

One third of the landfilled waste is organic.



Source: CalRecycle



4,000 tons of food waste is thrown out each day.



Food waste that is disposed of in landfills can release methane to the environment.

The State requires organics be diverted from landfills.

AB 1826



- Mandatory commercial organics recycling
- Composting or anaerobic digestion if more than 4 cubic yards per week is generated

SB 1383



- 50% reduction in landfilled organic waste by 2020
 - 75% reduction in landfilled organic waste by 2025
- Compared to 2014 levels*



The State requires organics be diverted from landfills.

AB 1826



- Mandatory commercial organics recycling
- Composting or anaerobic digestion if more than 2 cubic yards per week is generated

SB 1383



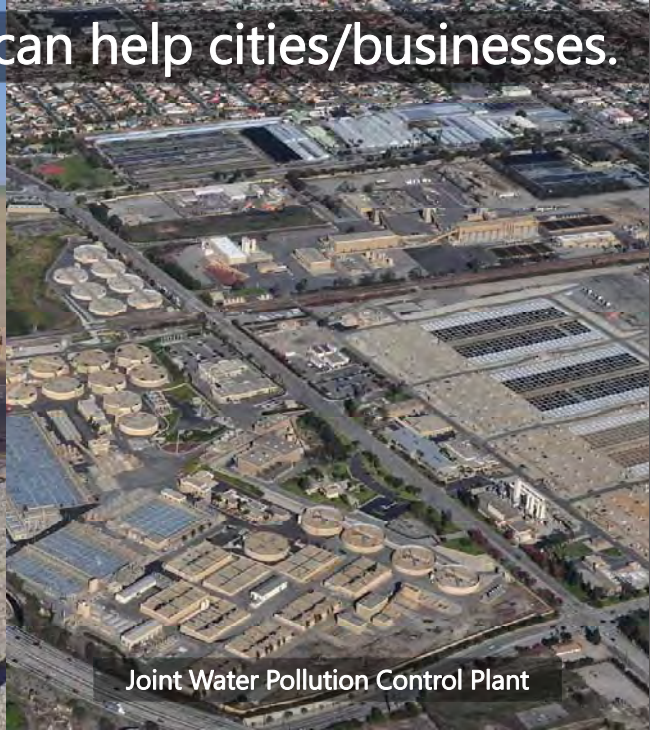
- 50% reduction in landfilled organic waste by 2020
 - 75% reduction in landfilled organic waste by 2025
- Compared to 2014 levels*



Our food waste program can help cities/businesses.

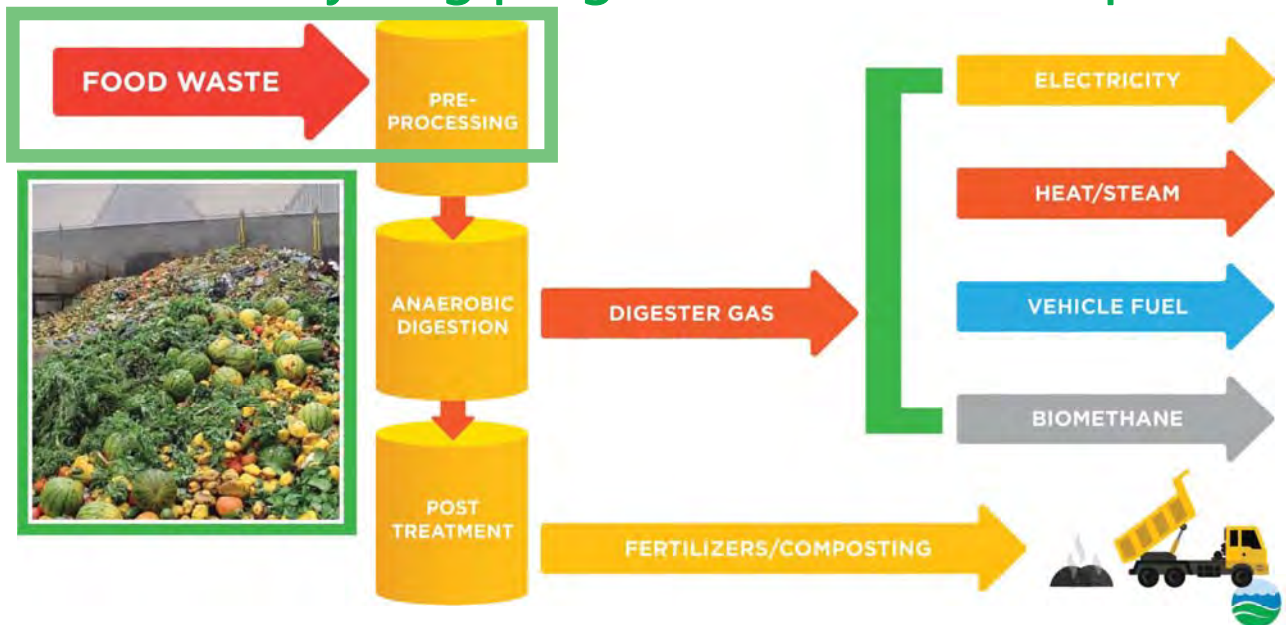


Puente Hills Materials Recovery Facility



Joint Water Pollution Control Plant

Our recycling program has several steps.



First source-separated food is collected.



Food waste is brought to PHMRF.



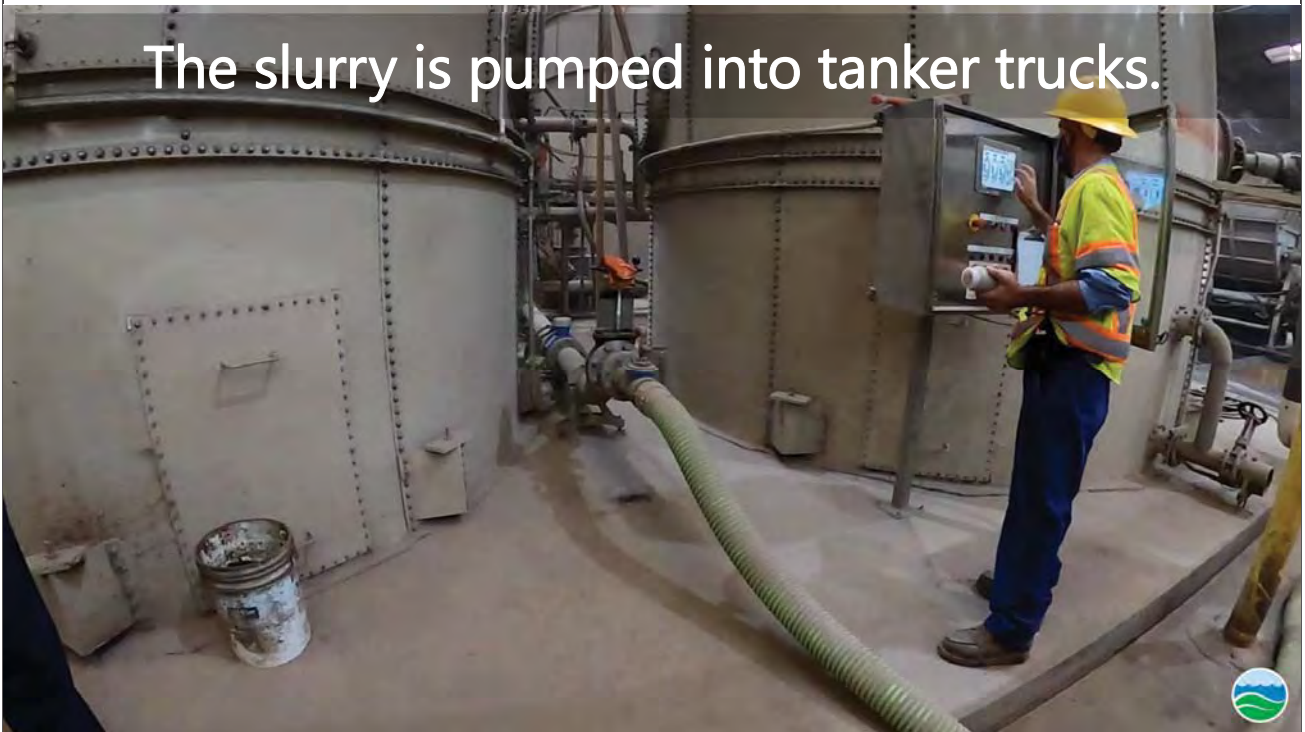


Let's take a ride inside PHMRF.

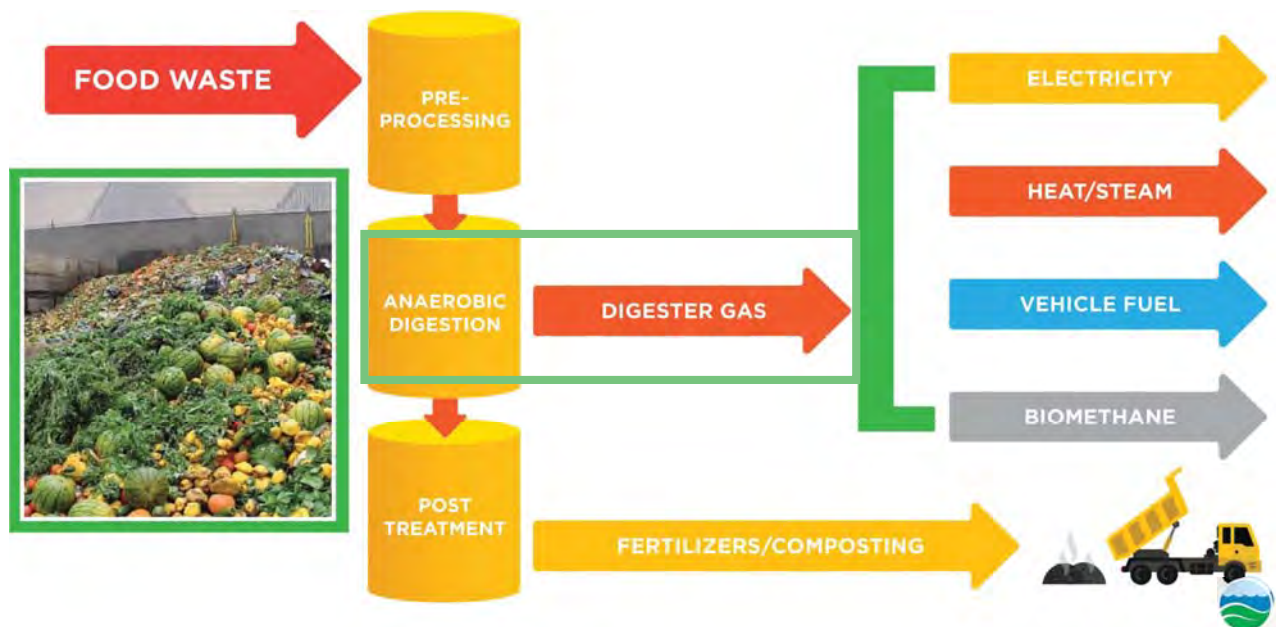


30 tons/day of food waste is slurried at PHMRF.





Slurried food waste is then delivered to JWPCP.



Food waste and wastewater solids are digested.



MOs feeding on solids

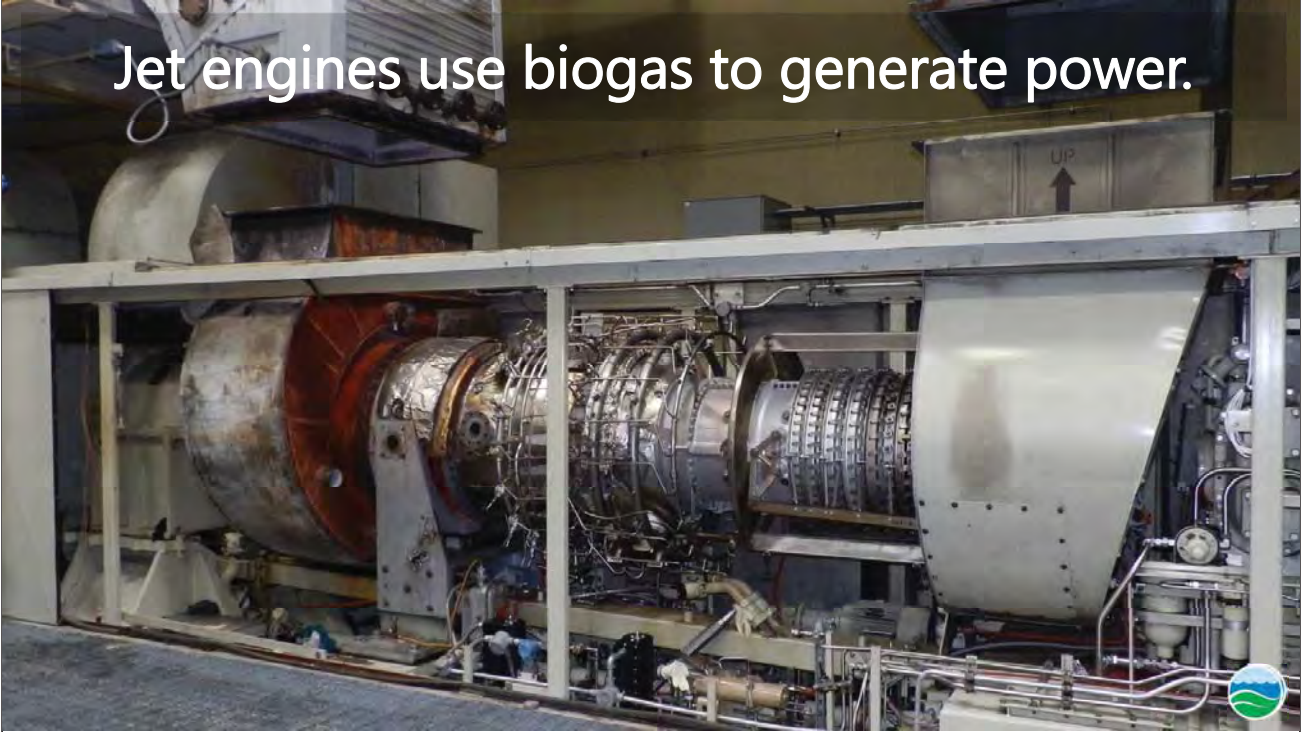
24 Digesters
Kept at 96°F for 15-16 Days



Food waste and wastewater solids are digested.



Jet engines use biogas to generate power.



Steam generators are used to generate power.



Our power plant produces 20 MW of energy.



Renewable Energy

20 MW

Enough for 20,000 homes



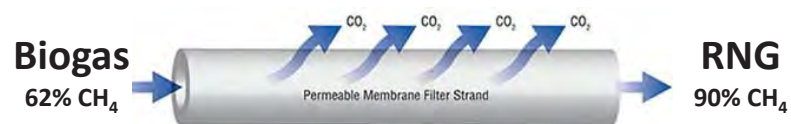
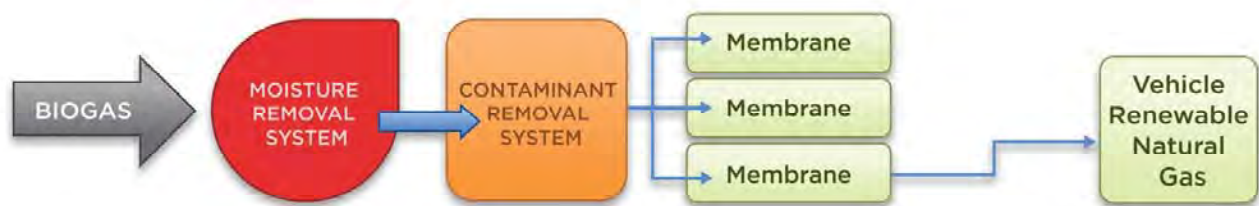
Surplus biogas is used as vehicle fuel.



The biogas is refined.



The biogas is refined.



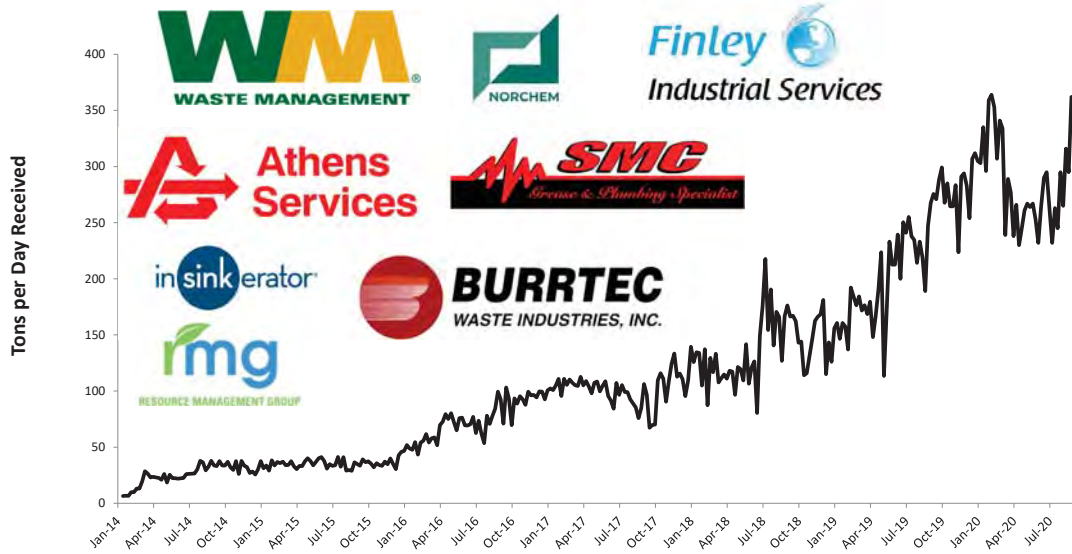
Renewable natural gas is stored.



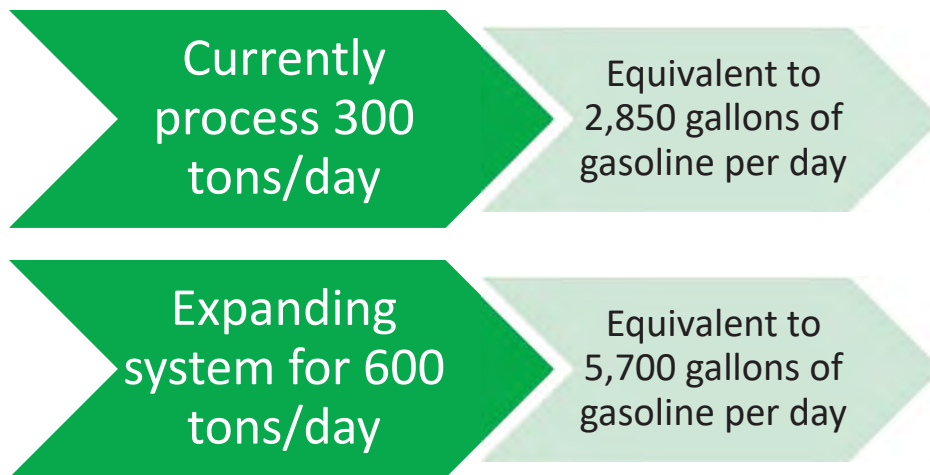
It supplies our existing fueling station.



We're processing about 300 tons/day of slurry.



Our goal is 600 tons/day of food waste slurry.



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Generation of electricity



Vehicle fuel



Injection into natural gas pipelines



FOOD WASTE RECYCLING PROGRAM VIRTUAL TOUR

Thursday, February 18 at 10:00 am via Zoom ID 854 9992 9742

or

Saturday, February 20 at 9:00 am via Zoom ID 821 5742 0239



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SANITATION DISTRICTS**
Converting Waste Into Resources

For more information:

Source-separated food waste:

Habib Kharrat, Division Engineer

562-908-4288 ext. 6065; hkrarrat@lacsds.org

Food waste slurry:

William Chen, Supervising Engineer

562-908-4288 ext. 2431; wchen@lacsds.org

www.lacsds.org/foodwaste

Tours: info@lacsds.org

