

Kanadevia INOVA

KOMPOGAS SLO

Meeting Organics Diversion Goals through High Solids AD since 2018

Presented to: IWMA Solid Waste Summit 2026

Date : October 29th , 2026

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A Circular Economy

In a circular economy we keep resources in use for as long as possible, extract the maximum value from them while in use, then recover and regenerate products and materials at the end of each service life.

About Kanadevia Corporation

- Kanadevia Inova is part of the Kanadevia Corporation, based in Osaka/Tokyo
- Formerly known as Hitachi Zosen Inova
- Solution Partner for realizing Sustainable and Safe & Secure Society
- Provide Technology for People, the Earth, and the Future

Kanadevia Inova North America



- Global Swiss/Japanese clean-tech leader for over 100 years
- Integrated resource recovery and circular economy waste management solutions
- NAM headquarters in Knoxville,TN
- Engineering, procurement, and construction (EPC) provider
- Appetite for owning infrastructure for capturing energy and greenhouse gases from waste
- Kanadevia Inova's innovative solutions have been part of more than 1600 projects worldwide

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KOMPOGAS®
San Luis Obsipo, CA

High Solids Anaerobic Digestion of Source Separated Organics

What were the drivers ?

Policy

- State Mandate to divert 75 % of Organics from Landfill by 2030
- Short Lived Climate Pollutant Reduction Legislation SB 1383
- Municipal & Corporate decarbonization strategies



Organics Problem

- County had existing residential green bin program for yard waste and composting facility
- Increased food waste in green bin causing issues (odors, vermin, vectors)
- Compost facility shut down
- Organics hauled out of county adding significant cost and carbon footprint
- County conducted extensive technology vetting and identified KOMPOGAS as suitable

KOMPOGAS® - **Continuous Plug Flow Technology**

- Designed for a variety of input materials

Source Separated Organics (Household or Commercial waste)





Catering and kitchen waste



Post Consumer Organic fraction of unsorted MSW



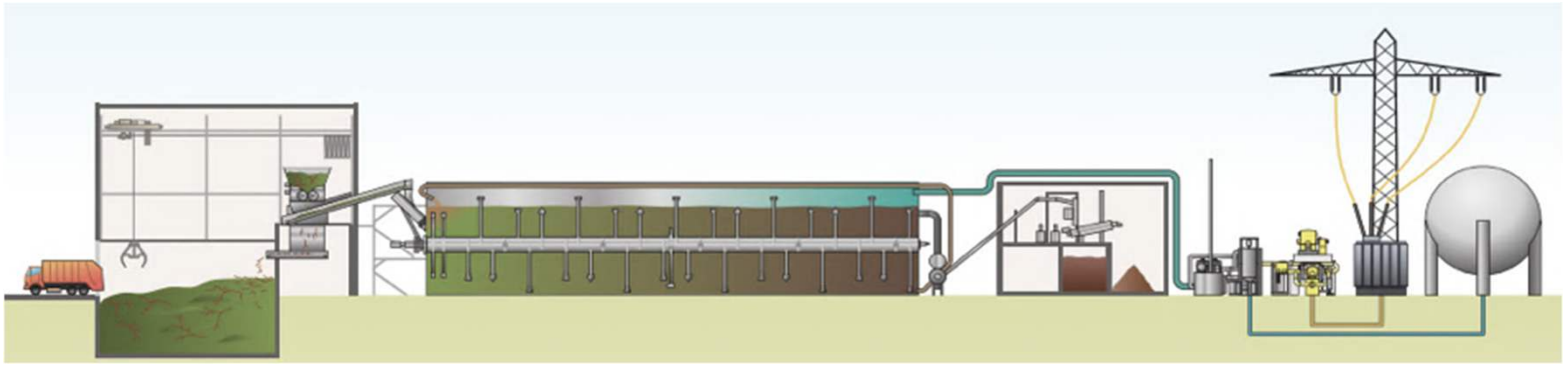
Green & yard waste





Pre-Consumer (Expired food from supermarkets)

KOMPOGAS® – Leading High Solids AD Technology



Proprietary Technology from KVI	Feeding System	Digester	Dewatering	Gas Upgrading	Integrated Solution Maximized Efficiency Reliable Execution
Engineered by KVI	Electrical and Control Technology				
	Balance of Plant				
	Energy Use				
Managed by KVI	Site and Building Services Engineering				

Project Specifics

- SLO County had 27,000 tons/year of yard waste composted/disposed out of County and wanted to include additional 6,000 to 8,000 tons/year food waste in the future
- Waste Connections (WC) provides disposal services to majority of County
- WC owned a site with office, workshops and truck parking, ideal location for Anaerobic Digestion facility
- Waste hauler not interested in 'technology projects' – open for third party to finance-design-build-own-operate an AD facility
- Participating Municipalities to extend franchise waste disposal agreement with WC to 20 years to justify KVI - AD investment
- Project received grants from CEC, CalRecycle as well as qualified for ITC funding

Major Milestones

- Begin Design June 2015 (Permit Application)
- Begin Construction December 2016
- Start of Commercial Operation September 2018
- Initial Solid Waste Permit for 36,500 TPY
- Addition of FOG (Fats, Oil Grease) receiving station Feb 2020
- June 2025 - Increase of Solid Waste Permit to 42,000 TPY



Statistics

- Operated 24/7
- Staffed by five full time operators during regular business hours 5 days/8 hours per day
- Operational uptime 97 %
- As of September 2026, plant diverted over 260,000 tons of organics from landfill
- Producing 6.3 Million kWh of electricity per year
- Enough electricity to power 600 homes
- Reducing Green House Gas Emissions by 5,300 Metric Tons of CO_2 equivalent per year
- Equivalent of taking 1,000 cars of the road
- Produced over 50,000 tons of OMRI Certified Compost and nine Million Gallons of liquid fertilizer



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Conclusion

- Enables County to meet SB 1383 compliance for both diversion and procurement requirements
- Proven technology guaranteeing decades long management of organic waste
- Increased of life of landfill
- Less transportation cost & equipment wear
- Net energy producer compared to composting
- Essential part of local community with continuous public engagement (tours, compost give away, etc.)





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Thank you!

Thomas F Gratz
Sales Manager – Renewable Gas
Thomas.Gratz@kanadevia-inova.com