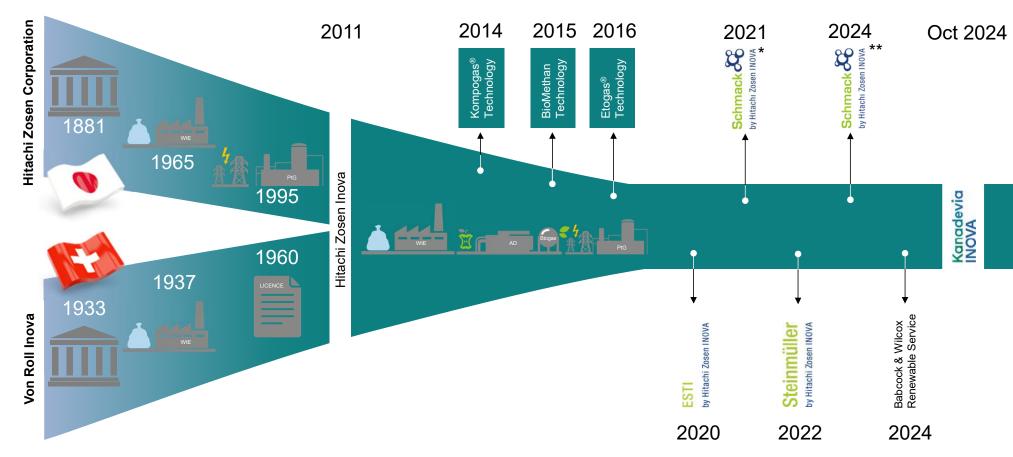


About Kanadevia Corporation

- 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

A joint history since 1960 / Integration since 2011



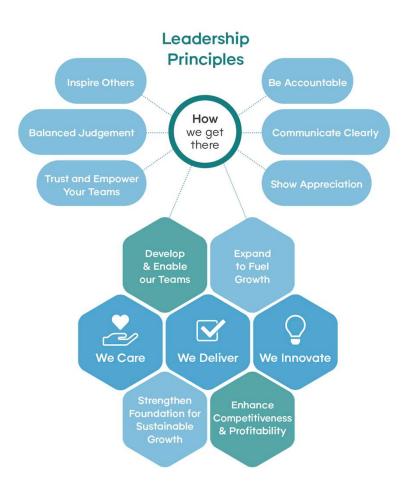


^{*} formerly Schmack Biogas Service GmbH

^{**} formerly Schmack Biogas Srl

We contribute to a future free of wasted waste





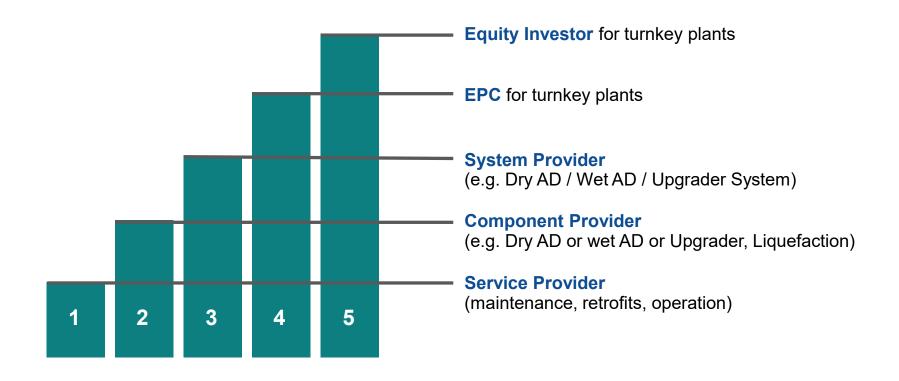


Kanadevia Inova North America is part of the Swiss-Japanese Kanadevia Inova Group:

- Global 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
- Complete turnkey plants for capturing energy and greenhouse gases from waste
- Kanadevia Inova's innovative solutions have been part of more than 1600 projects worldwide

Kanadevia INOVA

Flexibility based on Market Demand and Partners





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

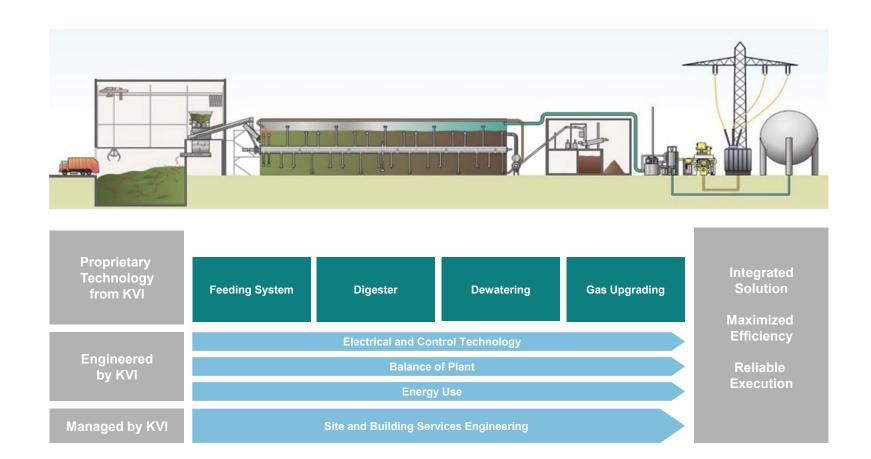


Organics Problem

- 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

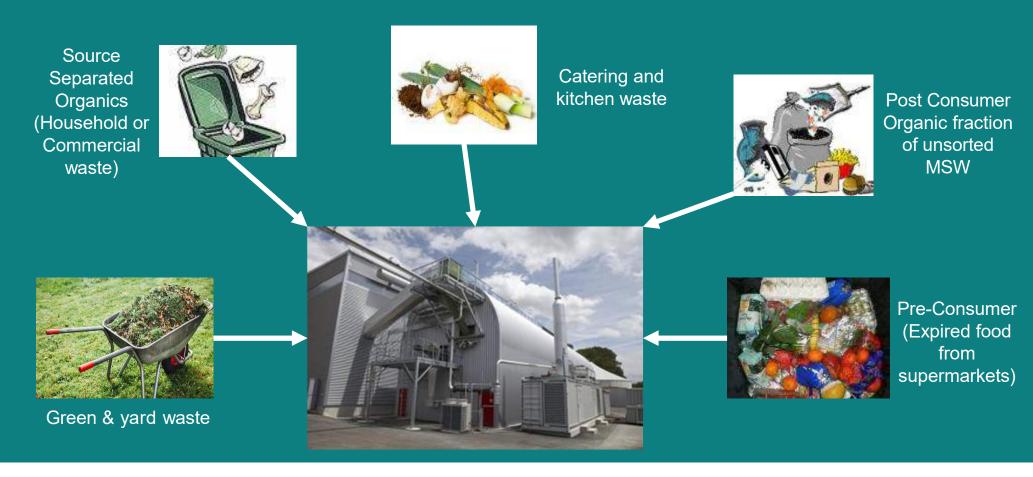
KOMPOGAS® – Leading High Solids AD Technology





KOMPOGAS® - Continuous Plug Flow Technology

Designed for a variety of input materials



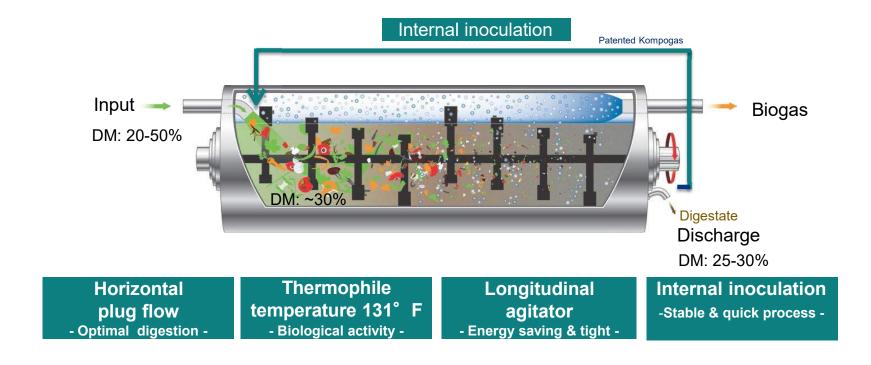
Plug Flow Technology - Designed to handle impurities



Impurities: sand, gravel, stones, plastic bags, plastic foils, cans, ceramics, bottles, flower pots, glass, batteries, video tapes, hard plastics, CDs, electric devices, wooden boxes, metal pieces, garden tools, nails, cutlery, dead animals, lawn mowers, waste bins, etc.

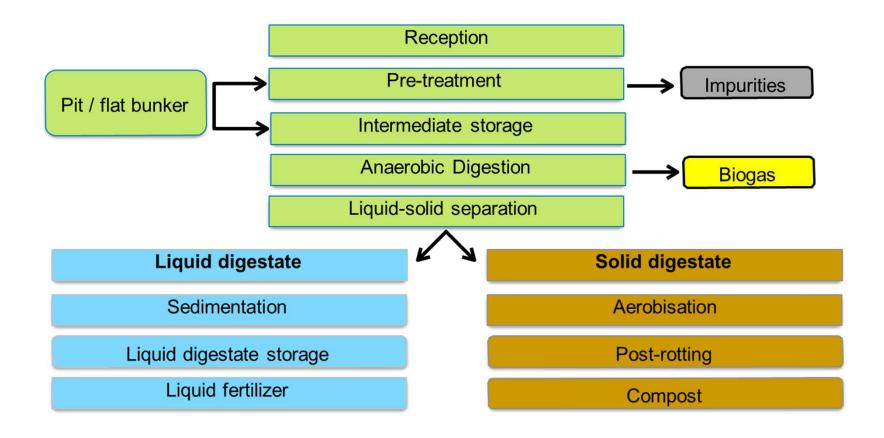
The KOMPOGAS® Plug Flow Advantage





- ➤ Retention time 14 days @ 131° F → sanitized fertilizer products, no additional steps required
- ▶ Inoculation allows fastest process start, defined & specialized process conditions allow highest conversion efficiency → highest biogas production and quality

KOMPOGAS® – Full Stream Digestion



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

Project Specifics

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 six full time operators during regular business hours 5 days/8 hours per day
- Operational uptime 97 %
- ➤ As of June 2025, plant diverted over 220,000 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 CO2 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



INOVA

Challenges

Permitting:

- Site had no Solid Waste Permit
- Conditional Use Permit approved by CEQA and planning commission based on MND (Mitigated Negative Declaration) tiered off statewide programmatic EIR.
- ➤ Building Permits took longer than normal to educate local staff and California Code Check on this type of facility.
- APCD: Authority to construct permit by local APCD

Perception:

- Project encountered some opposition, engagement and education of residents
- ➤ CalFire visited plants in Europe to better understand safety aspect and fire suppression systems, now fully supports the technology

Residue Management:

- Producing marketable end-product from solid digestate (space & time requirements)
- Meeting compost certification labels due to physical and chemical contamination (Compostable Plastics, Heavy Metals, PFAS)
- Managing liquid digestate

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.)





Thank you!

Thomas F Gratz

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