



evoqua
WATER TECHNOLOGIES



WASTEWATER SOLUTIONS FOR ORGANIC FOOD WASTE



A STAGGERING 40 PERCENT OF ALL FOOD PRODUCED IN THE DEVELOPED WORLD IS WASTED.*

When this happens, all the resources to grow, ship, and produce the food are also thrown away, magnifying the problem. Reasons producers and retailers end up wasting food products include:

- 'Best before' date has passed (i.e., market surplus)
- Food becomes unsafe for human consumption due to spoiling
- "Off-spec," non-aesthetically appealing fruits and vegetables go unsold
- Food waste from supermarkets and restaurant kitchens
- Excess harvest

Food scraps decay rapidly and produce a significant portion of landfills' methane emissions, a greenhouse gas (GHG) more than 20 times more potent to the environment than carbon dioxide. A strategy that diverts organic waste from landfills and converts it instead into green energy helps minimize these harmful emissions, creating value out of what would otherwise be wasted.

HOW CAN FOOD PROCESSORS AND RETAILERS SAVE MONEY WHILE HELPING SAVE THE PLANET?

ADI Systems offers proven biological anaerobic solutions to help reduce waste volumes while producing green, renewable energy and reducing GHG emissions. Energy-rich organic food waste is perfect for anaerobic digestion, or co-digestion. Our technology converts the source separated organics into valuable biogas, which can be used to generate heat, power, or vehicle fuel.

Our team has installed over 260 customized wastewater treatment systems in more than 35 countries worldwide, and has completed many waste-to-energy projects for food retailers and processors.





HELPING FOOD RETAILERS AND PROCESSORS WORLDWIDE FOR OVER 35 YEARS

ADI Systems has the technologies and experience to address the challenges faced by food retailers and producers.

Reduce hauling costs and landfill tipping fees. Anaerobically digesting food waste can greatly reduce or eliminate the trucking and tipping fees associated with sending organic waste to a landfill.

Convert organics into green energy. Valuable biogas can be collected and used to create green energy, lowering on-site energy consumption and costs or offsetting transportation fuel charges.

Control odors. Contain foul odors resulting from the breakdown of organic matter.

Become an environmental steward. Reduce landfill waste and GHG emissions while demonstrating corporate responsibility.

Create fertilizer. Anaerobic digestion of organic food waste produces a stabilized soil amendment that can be applied as a slow-release, natural fertilizer on agricultural land.



ORGANIC FOOD WASTE REDUCTION AND WASTE-TO-ENERGY SOLUTIONS

ANAEROBIC

ADI-BVF® reactor – A proven technology that is well adapted to high concentrations of chemical oxygen demand (COD), suspended solids, and fats, oil, and grease (FOG). The robust reactor is simple to operate and maintain, and generates very little waste sludge.

ADI-AnMBR – A cutting-edge technology that uses a membrane barrier to perform the gas-liquids-solids separation and reactor biomass retention functions, producing a superior effluent quality in a compact footprint.

ADI-CGR® – A low-rate in-ground reactor with localized liquid and gas mixing for improved digestion of waste streams with high organic solids.

* "The Solution To Food Waste - Food Shift". Food Shift. N.p., 2016. Web. 8 Aug. 2016.

** Goldenberg, Suzanne. "Half Of All US Food Produce Is Thrown Away, New Research Suggests". The Guardian. N.p., 2016. Web. 8 Aug. 2016.



ADI[®] Systems

an EVOQUA brand

+1 (800) 561-2831 (toll-free)

+1 (506) 452-7307

www.evoqua.com

ADI, BVF and ADI-CGR are trademarks of Evoqua its affiliates and subsidiaries in some countries.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2020 Evoqua Water Technologies LLC

Subject to change without notice

ADI-WWORGFOOD-BS-0320