

Monsal* advanced digestion technology (ADT) Re:Sep* 2

managing food waste

overview

Unavoidable food waste is increasingly becoming a resource instead of a waste stream. Organic material contained within leftover food waste collected from homes, food manufacturing and retail represents a significant sustainable energy source. When treated by anaerobic digestion, it produces a methane rich biogas. Rather than disposing of organic food waste to landfill with the resultant green-house gas emissions, biogas from anaerobic digestion of organics can be used to generate electricity, bio-methane and even compressed for vehicle fuel.

Food waste presents a number of challenges to treatment technologies; high levels of contamination in the form of plastic, metal and glass packaging along with grit can cause significantly impact digestion plant performance if not handled properly. Plant impacts can range from reduce digester production, plant downtime and additional operational and maintenance costs, all leading to losses in revenue.

benefits

The Monsal ADT Re:Sep 2 process offer the following benefits:

- Active removal of grit and settleable material from produced slurry through integrated hydrocyclone
- Greater than 95% organic material capture through the high efficiency separation of organic and contamination streams
- Proven robust and long life system



Figure 1: Monsal ADT Re:Sep 2 Installation

- Capable of treating waste streams with contamination levels up to 30%, higher when throughput is reduced.
- Modular and scalable design capable of treating small or large flows
- Produces ideal digestible slurry, easily handled and resulting in maximum conversion into biogas
- Capable of treating both liquid and solids waste inputs
- Widest range of feed stocks including source segregated food waste, residential, commercial and industrial wastes and organic slurries

Find a contact near you by visiting www.suezwatertechnologies.com and clicking on "Contact Us."

*Trademark of SUEZ; may be registered in one or more countries.

©2018 SUEZ. All rights reserved.

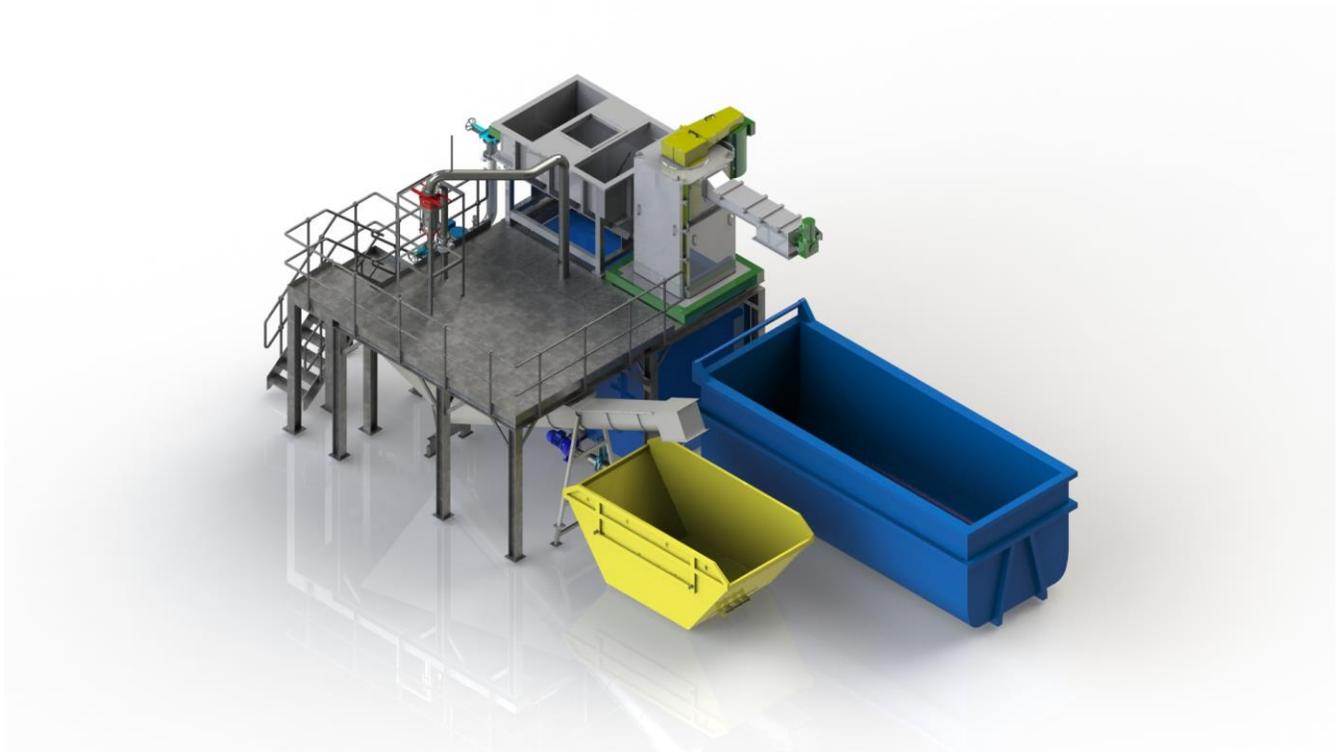


Figure 2: Monsal ADT Re:Sep 2 Process

applications

Monsal ADT Re:Sep 2 process can treat a wide range of feed materials from very high dry solids material to slurries and liquids and with contamination levels up to 30% by weight, including:

- Source segregated food waste from households
- Commercial waste from restaurants & cafeteria
- Waste from food manufacturing including packaging
- Liquid wastes and slurries
- Slaughterhouse waste and many more

improving food waste treatment

In order to treat food waste, the associated contamination such as food packaging, bones and inorganic hard particles need to be separated out. The Monsal ADT Re:Sep 2 process can receive a wide variety of waste streams and separate the organics with high efficiency into a clean organic slurry and a separate reject contamination stream, resulting in the perfect feed substrate for anaerobic digestion.

improved performance

High efficiency separation of the organic material from packaging results in disposal options and lower disposal costs for reject fractions and higher biogas generation from the anaerobic digestion process.

High efficiency separation of contamination and grit results in:

- Reduced operational issues downstream
- Increased overall plant availability performance
- Reduced maintenance costs

more information

If you would like to learn more about how SUEZ can provide food waste management for your business, contact your local SUEZ representative or visit us at our website www.suezwatertechnologies.com.