



ADVETEC

Reduce Waste. Save Money



The Chocolate Factory

The waste reduction during the machine operation achieved a greater than 90% reduction of the original mass in just 72 hours.

The Project

Spread over an area of 1.02 million square feet, the 515,000 - square foot facility, currently employing 555 people, specialises in the manufacturing, canning and packaging of branded products. Items include powder milk, chocolate and bottled water

Our Objectives

- Reduce volume of waste going to landfill
- Process waste quickly and efficiently
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- Decrease environmental impact

Implementation

A site wide survey was conducted prior to the Advetec XO installation. During this evaluation, samples were collected and analysed by Advetec's laboratories to assess expected digestion rates.

WASTE TYPE:

Organic Solid/Sludge

FACILITY TYPE:

Chocolate Manufacturer

LOCATION:

Dubai, United Arab Emirates

DATE:

21/02/2015 - 02/03/2015

Results

The results of the trial show that 2350kg of waste was digested to 186kg of output. This outlet value was determined after weighing the digestate remaining in the XO at the end of the trial period. This level of waste reduction is equivalent to a 92% reduction of the original mass.

Summary

The trial period demonstrated that the Advetec XO unit could effectively reduce the waste produced by the client, as it achieved volume reduction rates greater than 90% within 72 hours. This shows that the XO unit is successfully performing and has a significant impact on the environment, as the machine will prevent large volumes of waste going to landfill or incineration. The client subsequently purchased an Advetec XO which was installed in 2016 and is still running today.

DATE	TIME	WASTE INPUT (KG)	OUTLET FROM KO (KG)	COMMENTS
21/02/2015	9:00am	100kg		Bacteria and nutrient added
22/02/2015	9:00am	350kg		Bacteria and nutrient added & temperature settings modified
23/02/2015	9:00am	200kg		Bacteria and nutrient added
24/02/2015	9:00am	250kg		Bacteria and nutrient added
25/02/2015	9:00am	400kg		Bacteria and nutrient added
26/02/2015	9:00am	400kg		Bacteria and nutrient added
27/02/2015				Power disruption
28/02/2015	9:00am	200kg		Normal operation
02/02/2015	9:00am	450kg		Balance available sludge placed in XO
Total		2,350.00	2,350.00	