



GLOBAL TRADE AND MARKETING S.A.
Promoting Trade & Fostering Development

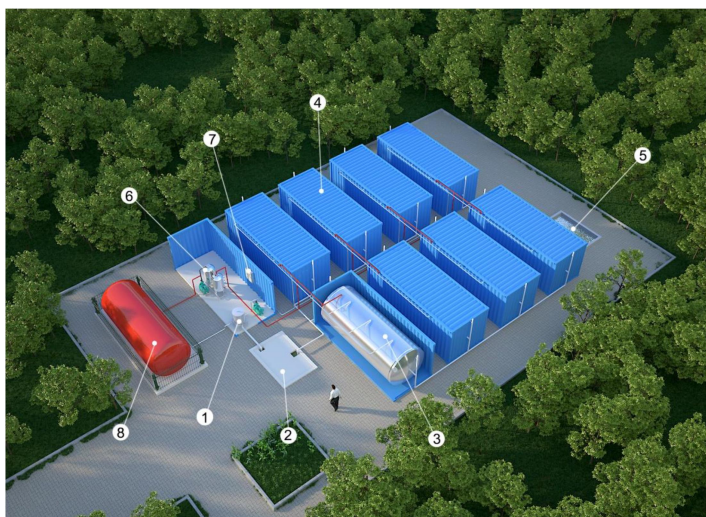
Container Biogas Plant

Port of destination: Any destination port
Delivery date: Around 15-45 days including ocean shipment
Transportation: By vessel
Payment term: Leasing, or L/C at sight

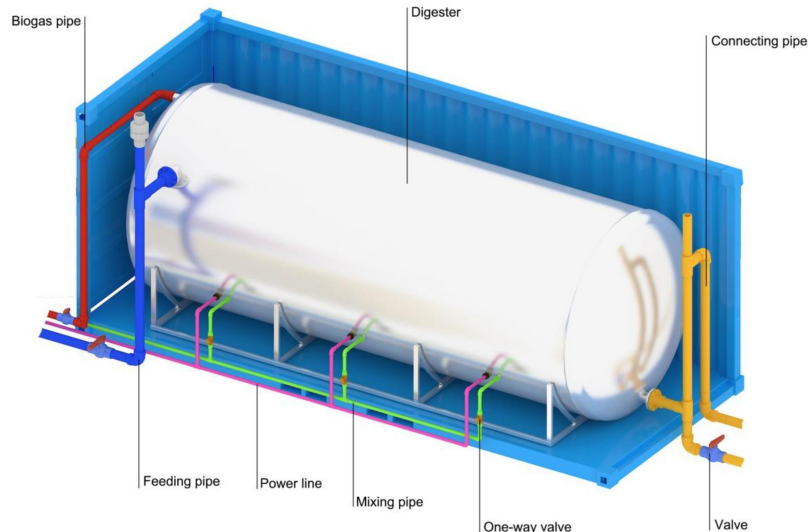
Global Trade and Marketing S.A. belongs to US African and European Business Group (www.us-africa-eu-businessgroup.com), has confirmed offering the current cargo below:

Container Size	20 Feet Container
Volume of a single anaerobic reactor (m3)	3
Volume of a single anaerobic reactor (m3)	60
Electricity (Kwh/day)	60
Anaerobic reactor	Double layer of 304 stainless steel with 5 cm thick foam insulation layer installed.
Temperature for biogas fermentation	Can be set at 35 or 55 Celsius

Raw Material	20 Feet Container
Food waste (Kg/day)	500
Pig manure (Kg/day)	900
Cow manure (Kg/day)	1200
Chicken manure (Kg/day)	534
Human manure (Kg/day)	668
Vegetable (Kg/day)	1300



1. waste shredder, 2. material collecting pool, 3. anaerobic reactor, 4. Container, 5. sludge storage tank, 6. Biogas desulfurizer, 7. console, 8. biogas storage bag



Application:

This product is designed for large scale food waste treatment and for livestock farm to treat manure

Advantages:

1. Easy and quick to install.
2. High efficient: the system has all the functions for fast anaerobic reaction such as 55 °C or 35 °C high and constant reacting temperature keeping, and automatic mixing.
3. Environmental friendly:
 - a. Odorless: All the gas produced is collected, cleaned and burned. The residue due to full fermentation has no smell.
 - b. No greenhouse gas (biogas) discharge: all the biogas is collected, cleaned and burned as fuel.
 - c. No waste discharge, the residue can be used for green or organic vegetable cultivation directly.

Structure:

The system is composed mainly of several first stage anaerobic reactors, several second stage anaerobic reactors, a biogas desulphurization device, a biogas storage bag, and a console. The anaerobic reactor is constructed of double layer of stainless steel plates with 5cm thick foam insulation layer installed between, and it has an electric heater or a heat pump, a temperature controlling device, a gas or liquid stirring device installed. The volume of a single anaerobic reactor is 17m³.

Main performance index:

1. The first and second stage anaerobic reactors can work at constant temperature set such as 55 °C or 35 °C
2. One 20ft container digester can treat 500kg food waste per day and it can produce about 40m³ biogas per day.

For more information, please contact Prof. Montina at: mmontina@global-trade-marketing.com, Telephone: +0034 690278306 or at WhatsApp: +0034 644388296.