FITEC CAN HANDLE THE PROCESS.

COARSE CONTAMINANT SEPARATION PHASE



Organic Waste to Receiving Bunker



RECEIVING BUNKER

Opening of bio and plastic bags, films and packaging. A slow speed shredder reduces hard particle sizes of wood, metal, glass, bones, and shells to under 40 mm.

Before entering the BioSqueeze, waste

adding process liquids if needed.

is conditioned by shredding, mixing and

CONDITIONING

01

02

RECEIVING & CONDITIONING

SEPARATION

THE BIOSQUEEZE REMOVES CONTAMINANTS TO PRODUCE A HIGH SOLIDS AND ENERGY DENSE BIOPULP.

Two fractions come out of the BioSqueeze: Biopulp and Contaminants.



Contaminants (<12 mm)

Sent to a second BioSqueeze or are taken for off-site processing.

Advances to our Pumps, where they are then fed to our Pasteurizing system.

Biopulp

BIOSQUEEZE







KV20 BALL VALVE PUMP

PASTEURIZING

03

FROM HERE, THE BIOPULP IS SENT THROUGH **OUR FULLY AUTOMATED DOUBLE-TUBE PASTEURIZING SYSTEM WHERE IT IS HEATED TO A MINIMUM OF 70°C BEFORE BEING FED TO THE DIGESTER.**

This step serves a dual purpose of also being a temperature control system for the digester.



DOUBLE-TUBE HEAT EXCHANGER AND HOLDING TANKS

Substrate

S

Hot and ready for conversion to biogas and contaminant removal

FINE CONTAMINANT SEPARATION PHASE



THE DILUTION THAT RESULTS FROM THE DIGESTION EFFECTIVELY **SEPARATES CONTAMINANTS INTO LIGHT AND HEAVY FRACTIONS.**

AGITATORS & FLOOR SWEEPER

Digestate

The clean Digestate that is produced exceeds the strictest global standards for digestate quality and is ready for value-added processing.



DIGESTER AND BIOGAS END-STORAGE

Biogas

 $\mathbf{\Lambda}$

For use in local energy grids as renewable natural gas and/or renewable electricity.

BG

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PRODUCTION **FROM ORGANIC WASTE WE HAVE RECOVERED THE GREATEST AMOUNT OF ORGANIC MATTER POSSIBLE TO**

D

Biogas

05

BIOGAS

PRODUCE A MAXIMUM AMOUNT OF CLEAN ENERGY.

This saves landfill space and makes the most of the resources we have available to us.

FROM END TO END.