

# proposal waste to energy IRC annex 1.pdf

## Waste 2 Energy

Dagher for development and trading  
FSC.ID: 3760613  
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## wilo 1 / Unit 1

### System designed for:

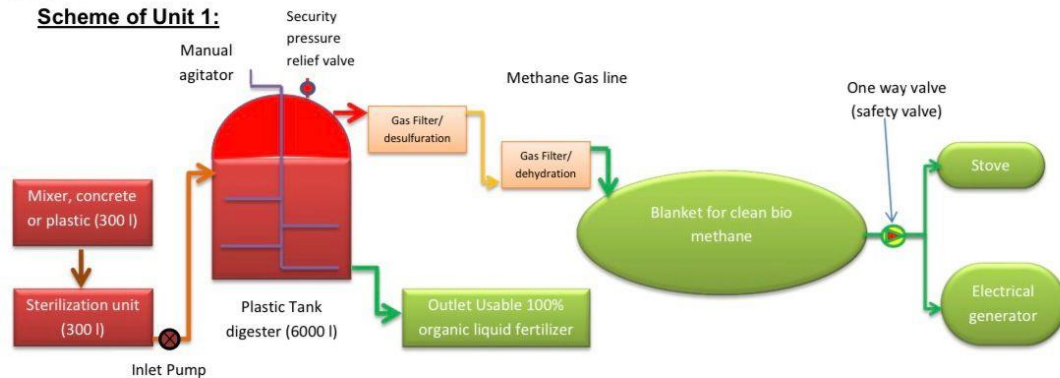
[Redacted] Cross/ Lebanon  
Jeanne d Arc 326, Sidani street,  
Hamra, Beyrouth.  
Tel: [Redacted]

proposal #: 1/1

Submitted on: 21/10/2022

Due date: 45 days

### Scheme of Unit 1:



- The system is built for 5 cows, approximately 150 kilos of cow manure daily and can produce 37.5 m<sup>3</sup>/ day of methane, which can be used either as cooking gas, or as a heating source or to produce electricity. (37.5 m<sup>3</sup> produce around 37.5 KW).
- The required space for the unit is 20 m<sup>2</sup>
- The system is designed to work by gravity, no need for air pump to extract the methane from the blanket.
- This system produces around 250 l/ day of 100 % organic liquid fertilizer.
- Optional automatic gas flare burner instead of pressure relief valve.

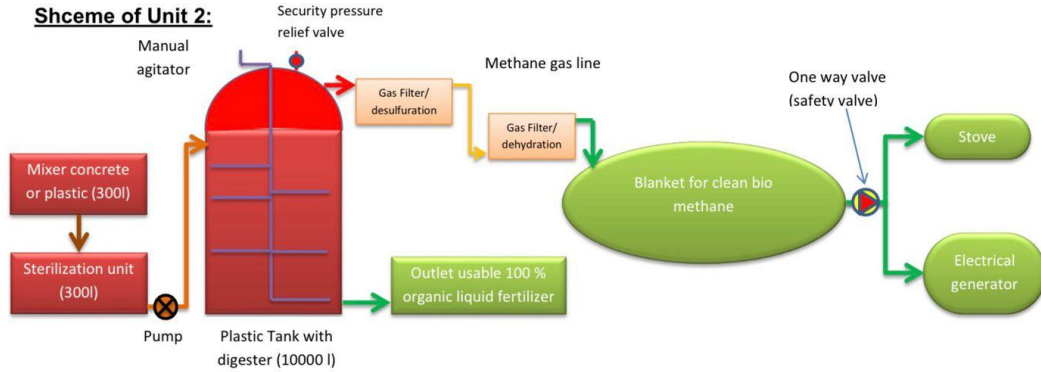
## Wilo 2 / Unit 2

System designed for:  
[Redacted] / Lebanon  
Jeanne d Arc 326, Sidani street,  
Hamra, Beyrouth.

proposal #: 1/1  
Submitted on: 21/10/2022

Due date: 45 days

### Shceme of Unit 2:



- > The system is built for 10 cows, approximately 300 kilos of cow manure daily and can produce 75 m<sup>3</sup>/ day of methane, which can be used either as cooking gas, or as a heating source or to produce electricity. (75 m<sup>3</sup> produce 75 KW).
- > The required space for the unit is 20 m<sup>2</sup>
- > The system is designed to work by gravity, no need for air pump to extract the methane from the blanket.
- > This system produces around 500 l/ day of 100 % organic liquid fertilizer.
- > Optional automatic gas flair burner instead of pressure relief valve.

## Biogas Digester Diagram

