

# Convert Waste Liability to Viability

Thru World Best Technologies

@

Minimum Investments

*envirosafe-tech*



*we care for you*

## Envirosafe-tech

(Energy from Scrap/Used/Unused/Renewable Resources)

# Waste- Definition & Classification



*"Any material which is not needed by the owner, producer or processor."*

## Classification of Wastes

### Organic

#### Dry :

Coconut shell, Agricultural Residues, wood, Fibrous Leaves, Stems, Seeds, paper and cartons

#### Wet :

Vegetables & fruits, Food waste, Cow dung , slaughter house waste  
Sewage Treatment Plant Sludge

### InOrganic

#### Rubber :

Tyres, Auto Parts

#### Plastic :

Carry Bags, Bottles, Electronic Parts

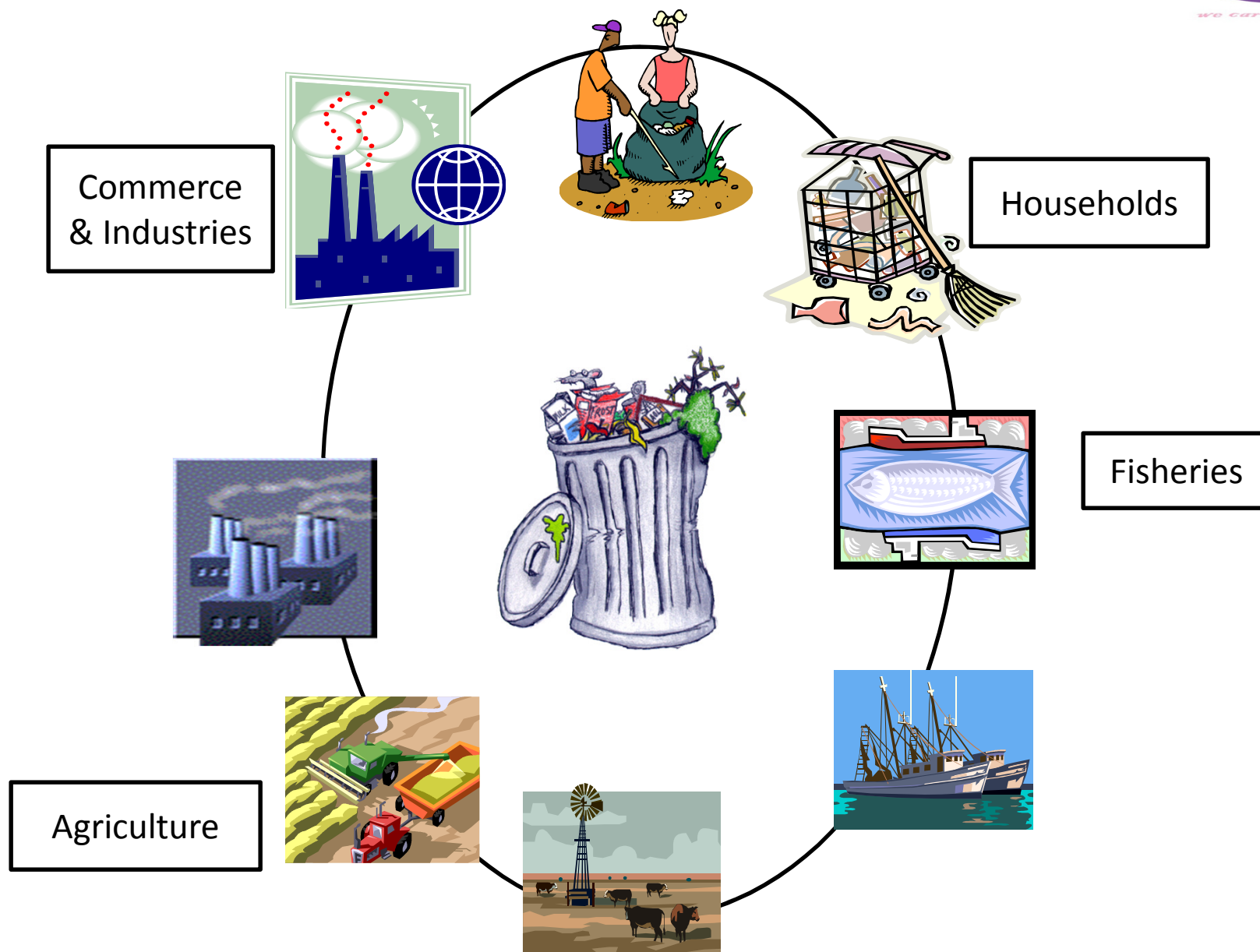
#### Metal :

Foil, Packing

#### Glass :

Bottles, Broken Glass

# Waste- Source



# SEGREGATION IS THE





# 9 R's of Waste Management



1.Responsibility

2.Reduce

3.Reuse

4.Recycle

5.Rethink

6.Repair

7.Recover

8.Remodel

9.Refuse

10.Replenish

# Solutions For Wet Waste

## 1. Biogas & Fertilizer through Bio methanisation Technology

Use of Biogas – a. Cooking

b. Lighting

c. Power Generation

d. BioCNG ( Auto Fuel)

Use of Bio Fertilizer – a. Direct use in farm land as liquid fertiliser

b. Drying, Enrichment & Granulation

# BioFertiliser use



# Construction Type of Biogas plants- Small





# Construction Type of Biogas plants- Medium (Rectangular)



# Construction Type of Biogas plants- Medium





# Construction Type of Biogas plants- Medium





# Construction Type of Biogas plants- Large





# Construction Type of Biogas plants- Large



# Biogas Generator – 30 KVA

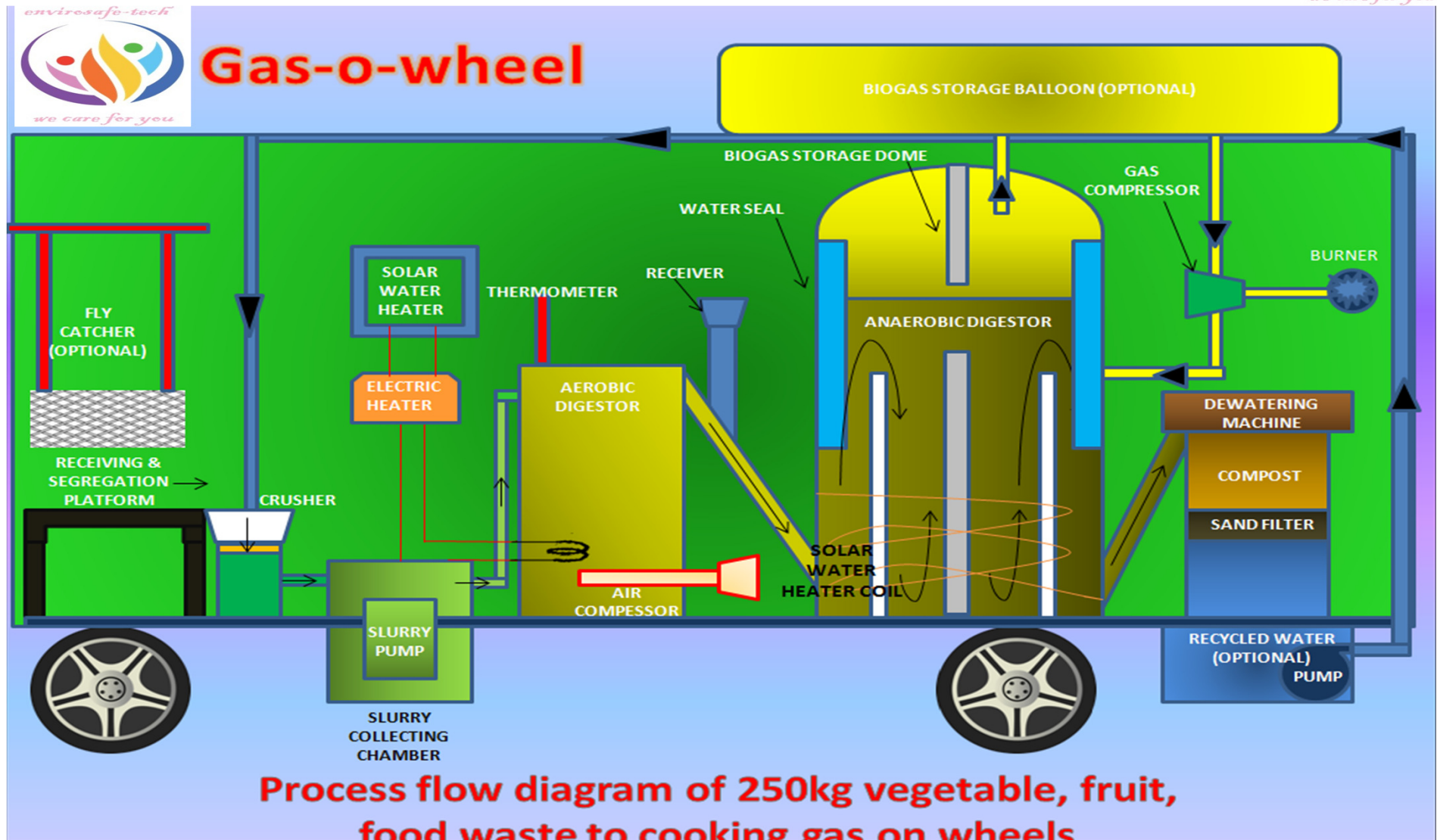




# Balloon Type Biogas plant on Leased Land



# Process Flow Diagram of Envirosafe-tech Diphasic Biogas Technology



# Benefits of Envirosafe-tech Double digester Technology



- Multi feed stock technology- any wet organic waste including used vegetable oil can be processed.
- Up to 65-75% methane content in place of 55-60% in traditional Biogas plants – Fast cooking like LPG
- 100% odor less and safe( coz no H<sub>2</sub>S production in process)
- Due to Double digestion natural soil conditioner consisting up to 30% stable & solid carbon-increases soil fertility
- 100 % environment friendly.- No solid ,liquid, Gas effluent
- Can be integrated with sewage Treatment Plants
- Less space required comparative to traditional technology.



# Solutions For Dry Biodegradable Waste



## Biomass Briquetting & gasification

Loose Agricultural / Horticultural biomass like leaves etc can be converted to Briquettes/Pellets. Which can be replacement of wood/coal / LPG with biomass cook stove.



# Uses of Pellets

Domestic cook stove



# Pellets operated Gasifire



**Domestic**



**Commercial**





# Charcoal Manufacturing from Agricultural waste



# Moksh Dand Manufacturing with Cowdung & BioMass





# Moksh Dand Best Use



# In vessel Composting of wet Biodegradable waste





# Smart Pit Composting



# Envirosafe-tech Smart Composter for Food Flowers Fertilizer Herbs & Air Purification





# Envirosafe-tech Smart Composter



**PROUD  
WINNER OF  
SKOCH  
EVER GREEN  
AWARD 2017**





# Some case study Smart Composter





# Smart Composter



# USES OF COMPOST FAST

1. Composting any Biodegradable waste
2. Pit Toilet
3. Sewage Treatment Plant (STP)
4. ETP
5. Kitchen Drain
6. Water Bodies
7. Farm Land

# Centralized Vs Decentralized Approach



Centralized waste processing is recommended for dry and inorganic waste

Decentralized Waste processing is all ways recommended for wet garbage because

- ✓ wet garbage having 50 to 95% moisture – unnecessary transportation
- ✓ Dumping/ processing sites are always far away from locality - so again finished products utilization needs transportation
- ✓ Segregation of wet garbage is easy in small quantities at source.
- ✓ Financially viable easy to operate and maintain waste to energy projects are available – starts with 50 kgs organic waste/ day onwards
- ✓ (as per our survey an average restaurant discards 100 to 200kgs waste and consumes minimum one commercial cylinder LPG /day)

# Who should install?

## Waste Processing Plant

- Hotels, resorts & restaurants
- Farms, Agriculture & Crop yielding sectors
- Industries specially food processing
- Institutions ( Educational and their Hostels)
- Religious Places with huge flowers offerings
- Canteens, Mess & party organizers
- Dairy , Poultry, piggery farms
- Slaughter houses
- Townships & housing societies
- Hospitals Canteen
- Military Camps
- Municipal corporation, Nagar Palika, Grampanchayat & govt. establishments
- Animal husbandries
- STP & ETP Sludge reduction.



# Plastic to Fuel plant



**Capacity : Starts from 50  
Kilogram per day to any**

**1 Kg plastic will provide**

**500-700 Gms oil**

**100 -200Gms Carbon Black**

**100-300 Gms Flammable  
Gases**

# Product for Soil & Plant Health

- Agri Jel - For Soil Health
- Agri Jackpot – For plant Health

# Eternal & Elixir

1. Detox for any Food & Drink
2. Instant relief in all kind of pain
3. Works on 4444 disease

# Some of our valued customers





## Next Move.....

- Please let us know your interest with resources available and investment capacity
- Appoint / Invite us as a consultant for feasibility study
- Jointly we can execute the project with hand holding support

# Thanks for your kind attention !!!

Now onwards  
Please see Big Money  
While seeing any Big waste

# Contact us



Regd. Office: S-660A, Nehru Enclave, School Block, Shakkarpur, Delhi-110092

Head Office : 3/1194, Vasundhara, Ghaziabad-201012 (U P)

Branch Office: 408,B5, SRS Royal Hills, Sector 87 Faridabad-121002 ( HRY)

Website: [www.envirosafe-tech.co.in](http://www.envirosafe-tech.co.in) [kbdubey@gmail.com](mailto:kbdubey@gmail.com)

Email id: [contact@envirosafe-tech.co.in](mailto:contact@envirosafe-tech.co.in), [shreejeedelhi2019@gmail.com](mailto:shreejeedelhi2019@gmail.com),

PH & Whatsapp: 9311089501 / 8383042101

