



KLEAN AT A GLANCE



# Klean Industries

Klean Industries is committed to providing commercially viable, environmentally sound waste recycling technologies and systems.

## Introduction

### CONVERTING WASTE MATERIALS IN A RESOURCE FOR THE 21ST CENTURY

Traditionally, waste materials have been viewed as useless and no longer having any inherent value and disposed of in landfills or incinerated but today things have changed and it is now possible to recycle waste materials using environmentally friendly technologies to convert waste into new reusable resources. Both the enormous environmental problems posed by waste and the massive value of the products that can be reclaimed from waste provide an unlimited opportunity to achieve sustainable waste management. There are over 500 examples of products/systems offered by Klean Industries in operation throughout the world, which clearly demonstrates the commercial viability of our technologies.

#### The givens...

- > A growing population (7 billion and counting!).
- > A growing waste problem (landfill no longer an option).
- > Resources with value currently going to waste that could be used or sold.

#### Where Innovative Environmental Technologies can help you...

- > Reduced manufacturing costs.
- > Reduced operating costs.
- > Reduced environmental Footprint.
- > Improved profit margins and triple bottom line!  
(Environmental, social, and economic)

### THE KLEAN INDUSTRIES OBJECTIVE

Our goal is 100% utilization of almost any waste product imaginable, mixed or unmixed. This includes scrap tyres, all types of plastics, shredder residues, biomass, infectious biohazard medical waste, and MSW through resource recovery conversion systems, and/or the production of useful products.

### Drying Raw Garbage, Leftover Food, and Waste Food.

Outstanding processing capability without the need to sort out foreign objects.



Flow Chart

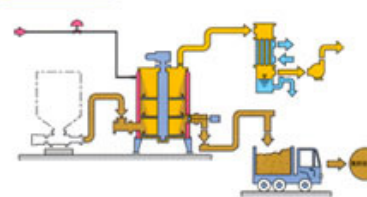


### Drying Liquid Wastes and Slurry.

Non-necessity of advance preparations (Screening, Centrifuge, Condensing) and drying without condition of water content!



Flow Chart

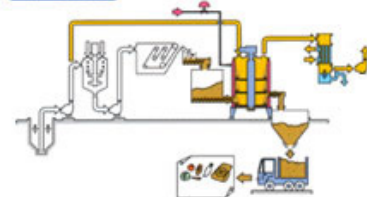


### Drying Contaminated Mud and Sludge.

Any form of sludge from liquid to solid can be handled at any desired rate of moisture content!



Flow Chart



### Drying Dead Fish and Waste Fish.

The Boil & Dry process makes it possible to employ the product immediately as livestock feed and fertilizer !



Flow Chart



**Drying Raw Garbage for Production of Livestock Feed.**

Large quantities of raw garbage can be processed into Livestock feed without producing any waste water, odors or broth.




Dried Product Dried Product



**Flow Chart**



**Direct Carbonizing of Raw Garbage.**

Mixed raw garbage and rubbish are directly carbonized.

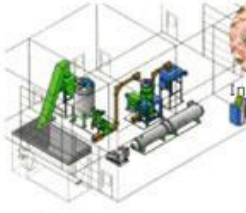




**Flow Chart**




**Fish Meal Plant.**

A First in the industry ! Fish Meal Plant processes ingredients without producing any broth, waste water or hazardous smells.

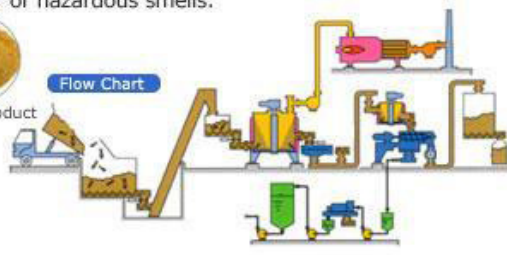



Ingredient



Dried Product

**Flow Chart**



**Drying of Waste Marine Products (process Residues and Adhesives) without Waste Water or Hazardous Smells.**

All types of wastes from fishery products are treated simultaneously in the same plant.




Waste Marine Product



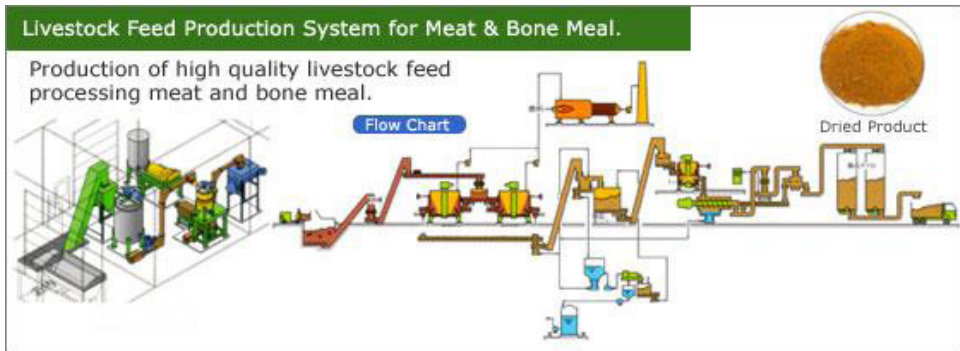
Dried Product

**Flow Chart**



**Livestock Feed Production System for Meat & Bone Meal.**

Production of high quality livestock feed processing meat and bone meal.




Flow Chart

Dried Product

**Dry Non-Odor Compost System for Sludge and Livestock Excreta.**

Dry process treats material and processes it into compost, without producing waste water or hazardous odors. An extremely high maturing speed is employed, up to ten times faster than conventional composting apparatus.

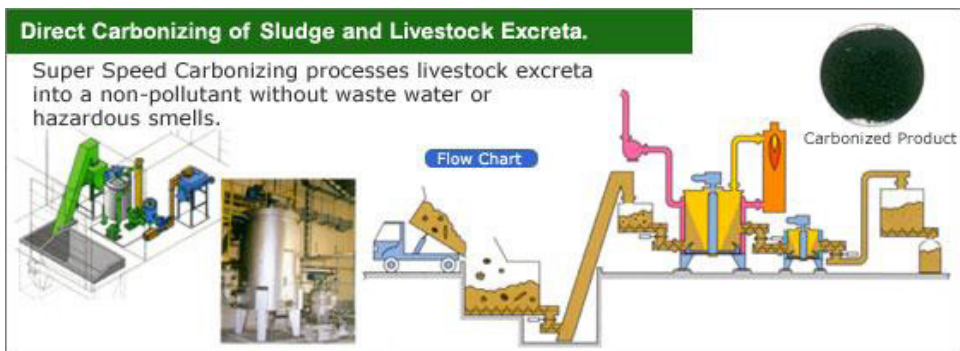


Flow Chart

Matured Product

**Direct Carbonizing of Sludge and Livestock Excreta.**

Super Speed Carbonizing processes livestock excreta into a non-pollutant without waste water or hazardous smells.

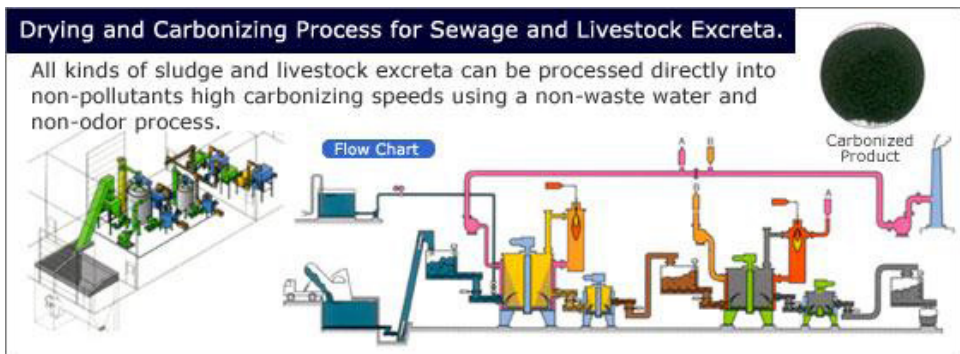


Flow Chart

Carbonized Product

**Drying and Carbonizing Process for Sewage and Livestock Excreta.**

All kinds of sludge and livestock excreta can be processed directly into non-pollutants high carbonizing speeds using a non-waste water and non-odor process.

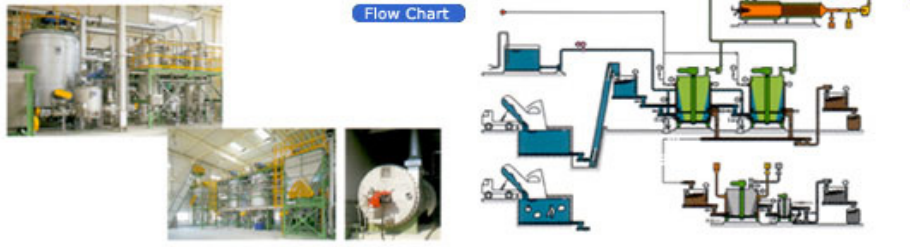


Flow Chart

Carbonized Product

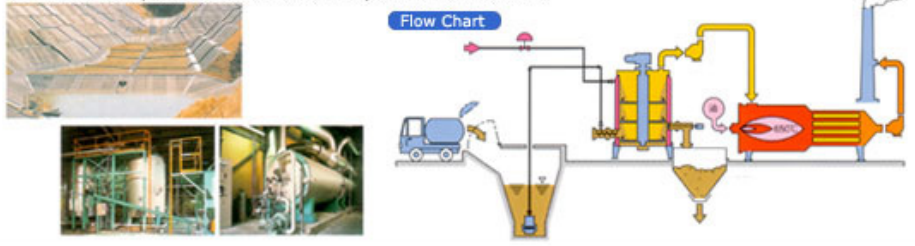
**Drying and Carbonizing Process for Waste Material with Moisture Content using Non-Waste Water and Non-Smell Treatment. (Intermediary Management)**

In the same apparatus it is possible to treat septic matter, liquid sludge, dehydrated sludge, and chemical waste liquids without waste water or odors.



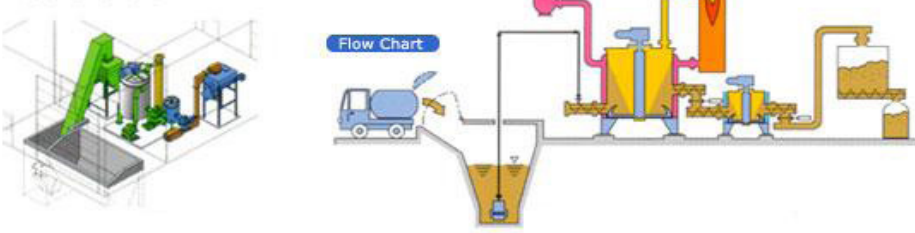
**Drying Leach Water, Waste Liquid and Brine Water without Waste Water an Odor.**

A completely dry non-pollutant product is produced at a super-high heat efficiency, without a drop of waste water or any hazardous odors.



**Drying Waste Liquor without Waste Water and Smell.**

Waste liquor (disposal of which from ships is prohibited) is dried under high-heat efficiency without waste water or smells.



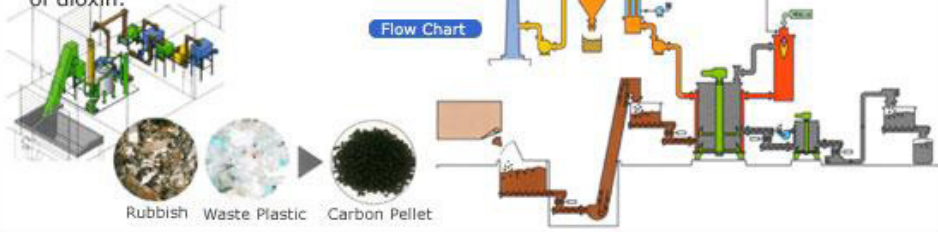
**Carbonizing Medical Wastes.**

Medical wastes, paper napkins and rubbish are directly carbonized simultaneously.



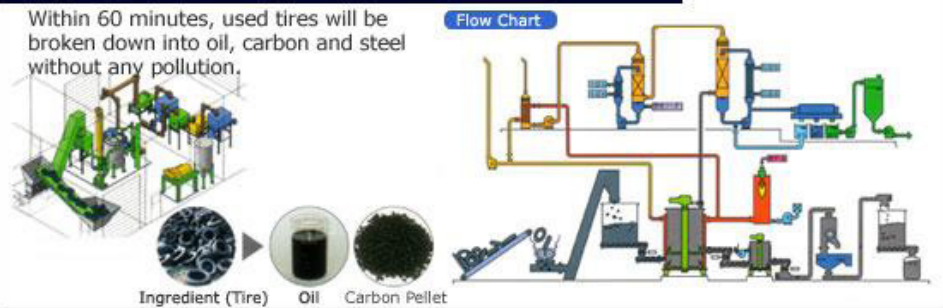
### Carbonizing Waste Plastic, Rubbish and Demolition Material.

Mixed waste plastic, rubbish and demolition material are carbonized without production of dioxin.



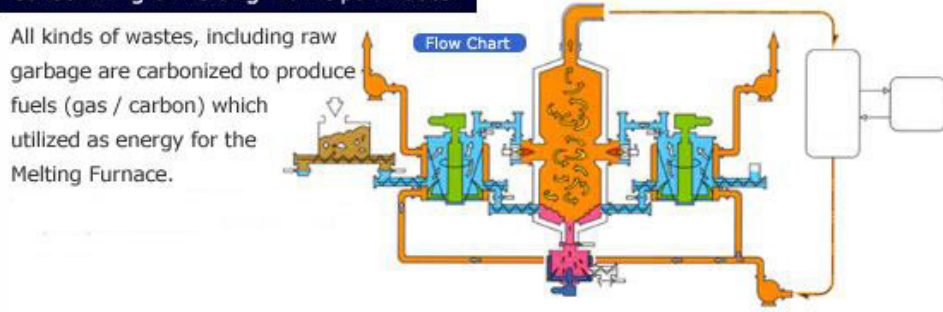
### Carbonizing & Oil Production from Used Tires.

Within 60 minutes, used tires will be broken down into oil, carbon and steel without any pollution.



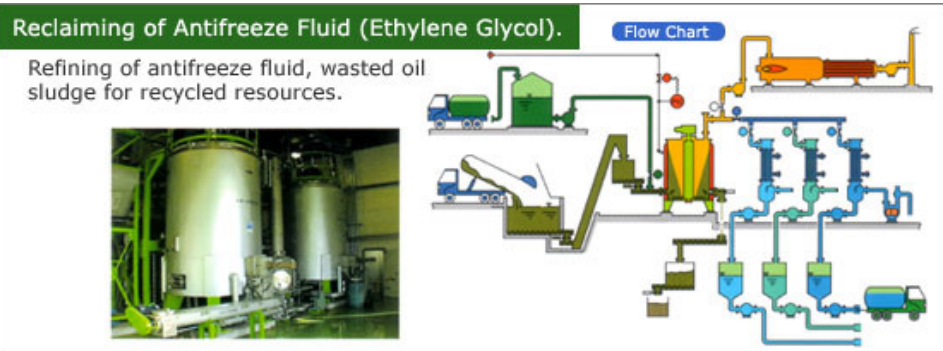
### Carbonizing & Melting Municipal Waste.

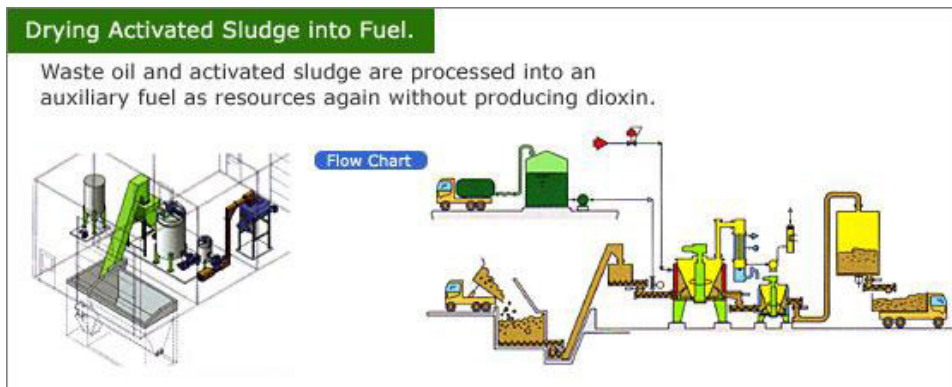
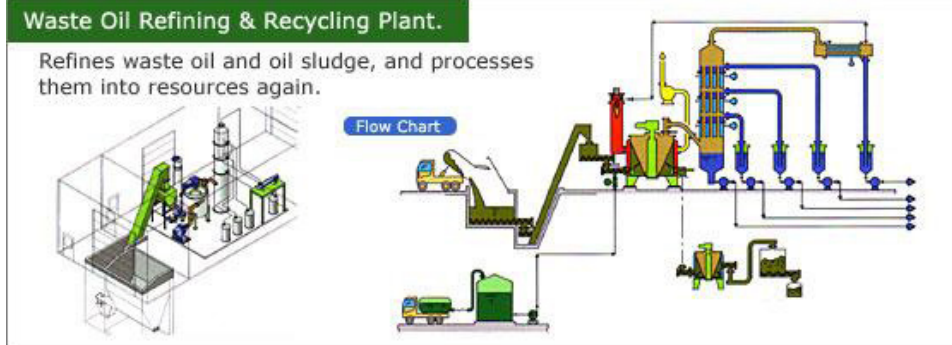
All kinds of wastes, including raw garbage are carbonized to produce fuels (gas / carbon) which utilized as energy for the Melting Furnace.



### Reclaiming of Antifreeze Fluid (Ethylene Glycol).

Refining of antifreeze fluid, wasted oil sludge for recycled resources.





## CONTACT INFORMATION

For any further information on the range of systems offered by Klean Industries, system specifications or for any general inquiries, please visit our website at [www.kleanindustries.com](http://www.kleanindustries.com) or contact us directly at:

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