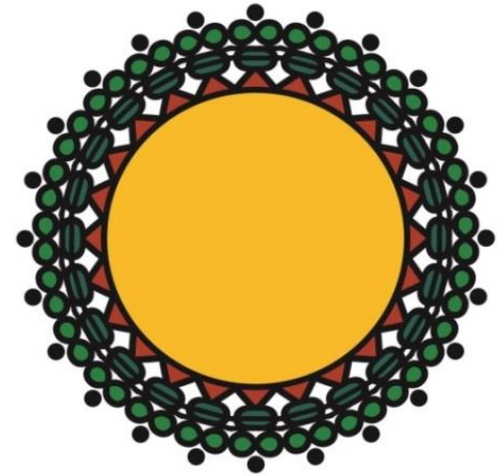


SUNSHINE

Renewables



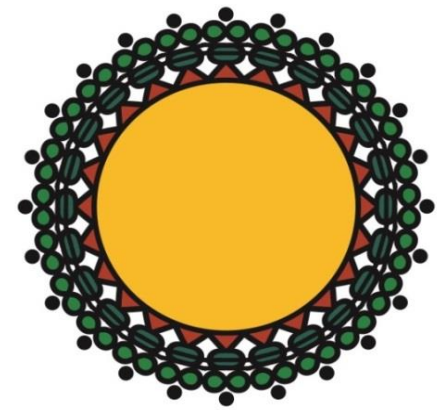
Renewable Energy - As Sure As The Sun Rises

Sunshine Renewables helps in providing clean and renewable energy and caters to the needs of Homes, Societies, Institutions, Business and Industries. It is dedicated to employing the latest Technologies in Solar Power Generation & in Waste Management System for our everyday needs. With *Sunshine* all your energy & waste disposal needs will be met efficiently and cost effectively.

By going Green you not only show your duty and responsibility towards the environment but also go to show your care & concern towards mankind.

SUNSHINE

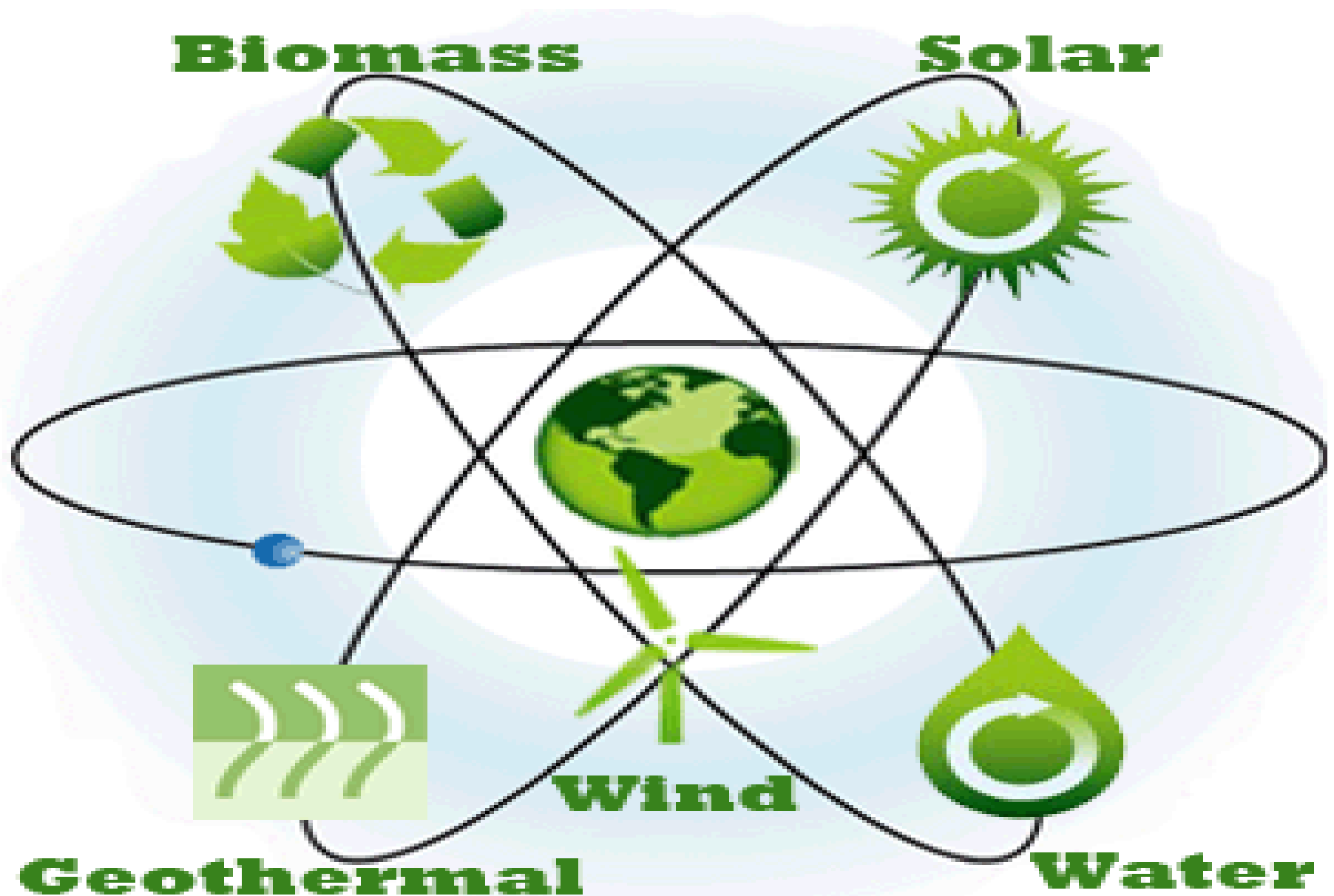
Renewables



**Solution Providers In Bio-degradable Waste
Management & e-Waste Management.**



FEW TYPES OF RENEWABLE & CLEAN ENERGY



WASTE MANAGEMENT CYCLE



What is Composting

- Composting is the transformation of organic material through decomposition into a soil like material called compost.
- Composting is nature's way to break down complex organic compounds into simple rich and easily available matter for the plants for better growth.

About Our Product

- It is a highly advanced and autonomous composting machines.
- It mimics the natural process of composting in a fast and more efficient way in a chamber, by simulating an environment that accelerates the process of composting from months to hours.
- It handles all kind of organic (Biodegradable) waste and breaks it down into rich compost in 24 hours.

Overview Of Our Machine



How It Works

The machine has two distinct modes:

- **Shredding Mode**

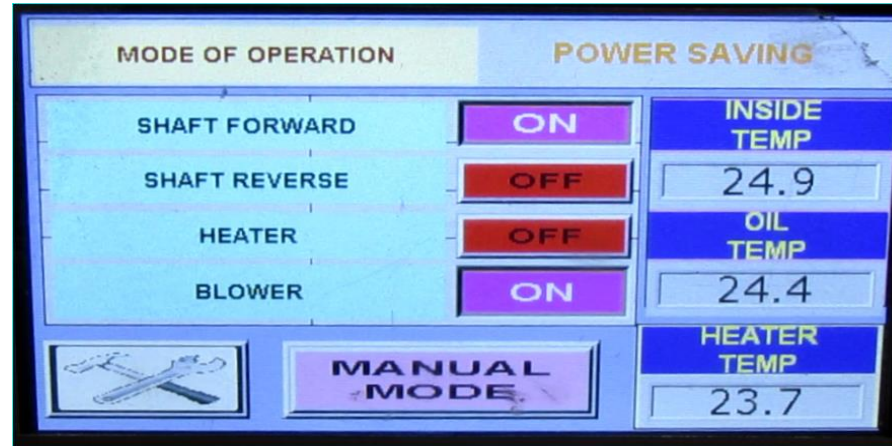
- For loading of new waste everyday.

- **Composting Mode**

- Composting mode is bifurcated into **Power Mode** and **Power Saving Mode**.
- In power mode the heaters are working and the mixing is frequent.
- Power saving mode is reached when the compost is completely dry.

Shredding Mode

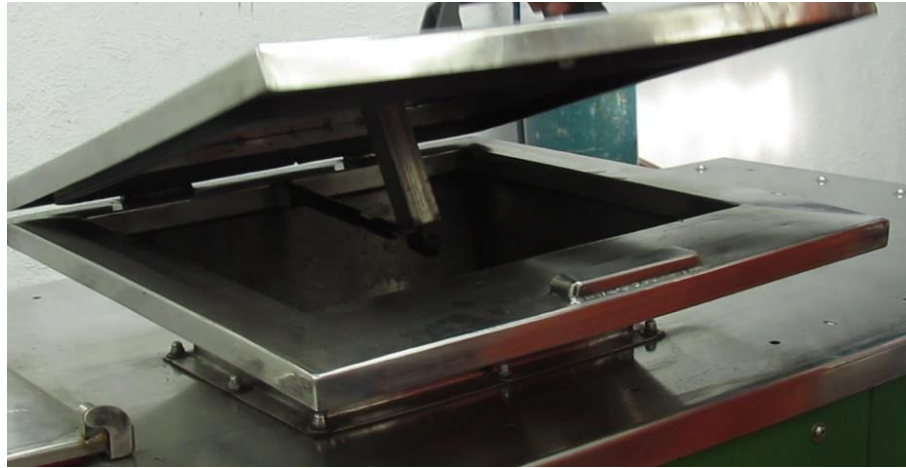
- Loading of waste.



- Waste needs to be loaded when machine is in power saving mode
- First by turning the selector switch from composting to shredding mode



- The waste input door is opened.



- Food waste is fed into the inbuilt shredder.



Contd..

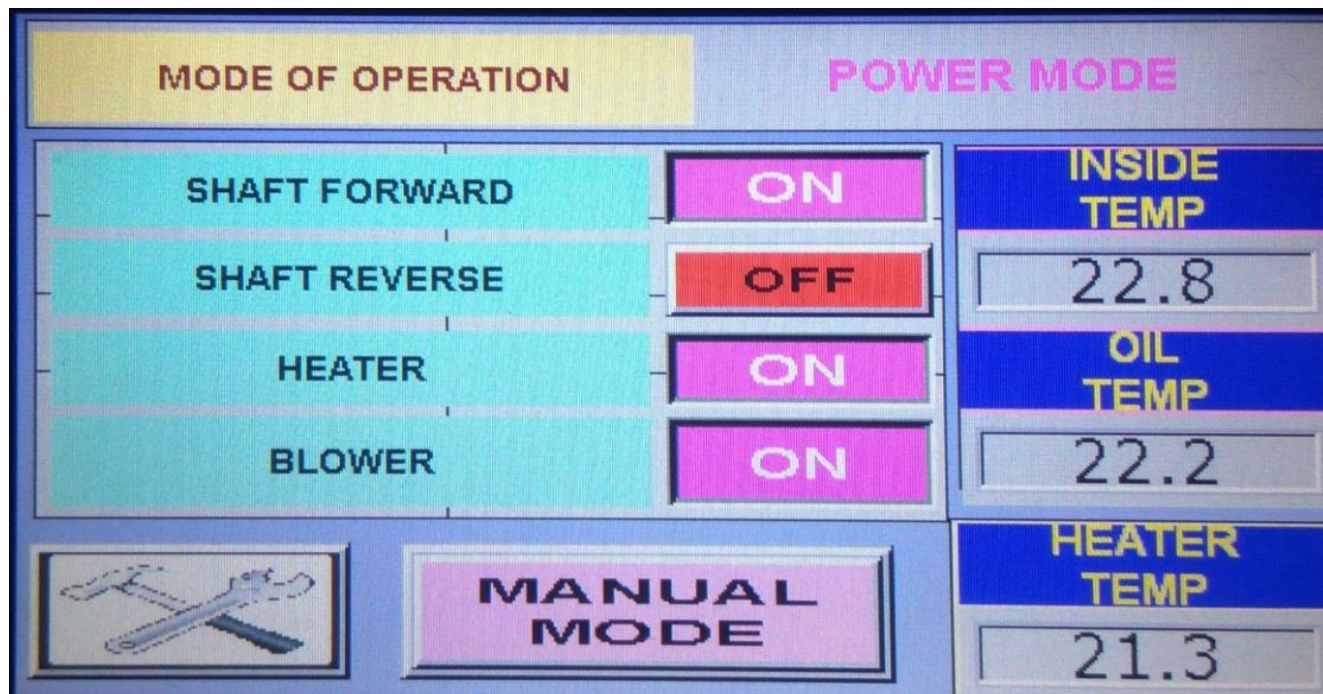
Composting Mode

- The semidry waste particles is then fed into the composting chamber.
- After loading the waste into machine the selector switch is to be returned back to composting mode.



Now the composting process starts:

The presence of moisture in the composting tank is sensed by humidity sensor and the heaters are triggered ON & the power mode indication is displayed on HMI.



Contd..

- The blower turns ON & mixing shaft starts rotating in clockwise & anti-clockwise direction, which helps in even distribution of heat and fresh air, removal of steam. This process continues till the moisture is completely removed.
- The heat activates the micro organisms present in the food waste and they digest the waste in the presence of oxygen. This process is called aerobic digestion. Here the volume of the food waste gets reduced up to 80% to 90%.
- The end product is dry compost.

Contd..

Removal Of Compost

- The above process continues for 8 to 10 days resulting in the rise of the compost volume till the maximum indication line.
- This indicates that the compost needs to be removed.
- To remove compost the manual TAB on HMI needs to be clicked.



- Further “Compost Removal” option to be selected.



- The compost removal door has to be opened.



Contd..

- Compost automatically falls into the bin



- This is how the Final Product (Fertile Soil) is obtained



Contd..

Salient Features of Our Machine

- It Has Inbuilt Waste Shredder, Driven By An Independent Motor.
- Thermic Fluid Based Heating System For Saving On Electricity.
- It Has Highly Efficient Ceramic Heaters.
- PLC Based Control Of Motor Heater & Blower For Precise Control And Efficient Processing.
- It Works Noiselessly & Seamlessly
- HMI Interface For Real Time Monitoring And Remote Access By Ethernet.
- Most Efficient And Lowest Power Consumption In Its Class.
- Inbuilt Safety Interlocks For Safe Usage.
- Tested And Proven Quality For Long Trouble Free Operations.
- It Handles All Kinds Of Organic (Biodegradable) Waste And Breaks It Down Into Rich Compost in 24 Hours.
- The Compost Bio Product Is Odour Free, Nutrient-Rich Fertile Soil.

Area of Application

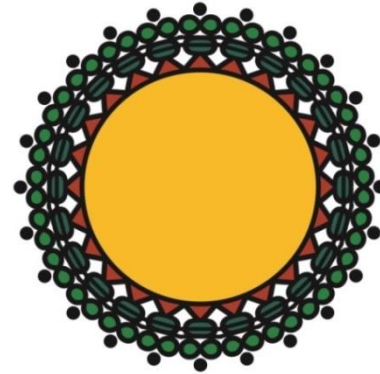
- Housing Societies / Residential Complexes / Commercial Complexes / Gated Communities.
- Restaurants / Canteens / Food Courts & Outlets / Hotels / Cafeterias
- Industries / Factories / Offices.
- Cinema Halls / Multiplexes / Malls / Whole Sale Markets / Gardens
- Temples / Religious Institutes
- Educational Institutions / Residential Schools / Ashrams.
- Municipal & Government Organizations.
- Railway Stations / Airports / Flight Kitchens.

Other Services & Solutions Offered

- Handling your bio - waste is always a messy affair. Due to this many are discouraged from segregating and handling your wet-waste. An important feature of our bio-waste management solution is that we can provide you with **bio-degradable dustbin/garbage bags**. These can be put into the Composting Machine directly, saving you from the mess that you were always worried about.
- Option to power the Composting Machine with a Solar Power Plant.
- Solutions for generating Bio-Gas from the slurry waste by setting-up a Bio Gas Plant.
- Utilizing the nutrient rich compost for society gardening or individual flat gardening or selling of the compost in the open market.
- Centralized & De-Centralized Waste Management Solutions.
- Solutions & Services for treating of e-Waste

Contact Us

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Thank You