



MUNICIPAL SOLID WASTE / LEGACY WASTE TREATMENT

ISO
9001
Certified

ISO
13485
Certified



"Lakshya Zero Dumpsite"

"... the goal of **Swachh Bharat Mission - Urban 2.0** is to make a **Garbage Free City, a City Completely Free of Garbage**"

Vision & Mission

Greenvac Solutions Private Limited a unit of  has a Vision and Mission to have a Garbage Free India, a Country Completely Free of Garbage in the future.

Waste Management Crisis

It is observed that various landfill sites are closed which are running out of space for further storage. Lot of land is blocked and is not being used since they are filled with Legacy Waste (Garbage). Searching for new landfill sites is a challenge. Populations living in the nearby areas of landfill sites are suffering from various ailments and always protesting.



The Big Impact

Municipal Solid Waste / Legacy Waste Projects throughout the world are not working on sustainable basis. Initially government supports to start the operation but in longer run, it becomes unviable project. It leads to enormous piling of infectious Solid Waste and leads to generation of greenhouse gases. Only commercially viable and sustainable technology like us shall solve Municipal Solid Waste / Legacy Waste problem, a complete solution for the process and disposal of fresh Solid Waste as well as legacy waste.

World's First

Fully indigenously developed processing technology and machinery - a Make in India initiative.

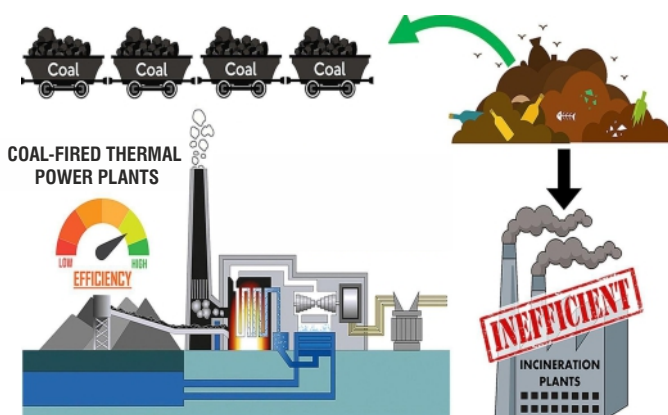
First time in the World, no segregation of municipal solid waste is required and unsorted / mixed garbage shall be fed into the reactor for final process as it is.

Zero Waste Management

Our process and solution will treat and dispose the entire garbage of various cities on a day to day basis on the same day it arrives at the dump yard site and no further landfill is required as we offer “Zero Waste / Zero Residue Management”.



Waste to Energy



**“Waste Is Not Waste,
It Creates Wealth”**

Advantages

- Cost Effective
- No Mass Incineration
- No Land Filling
- No Bad Odour
- No Food for Birds, Dogs, Rats, Pigs, etc.
- Complete Mechanical Separation
- Garbage Free City/ State
- Zero Residue Treatment Process
- Green Technology
- Healthy Environment
- Low Environmental Emissions
- Employment Opportunities
- Adheres to Pollution Control Norms

Our Technology


We have invented (Make in India) a New Simplified Torrefaction Technology to Convert the Combustible Fraction of Municipal Solid Waste into Carbon Enriched Fuel-Coal Powder with a High Calorific Value output depending on the City's Municipal Solid Waste's Input Characteristics. Ours is a Process where in Mixed, Unsorted Garbage (No Source Segregation is Required) shall be fed into our Reactor Process to Convert the Refuse Derived Fuel (RDF)-Combustible Fraction into Carbon Enriched Powder-COAL Powder with High Calorific Value Output which shall be used as Heat Energy in Cement Industries, Steel Industries, Thermal Power Plants etc. After the Process, the Recyclables like Iron and Steel and Aluminium will be Screened and Separated. Our process will move on to energy transition and enhance the renewable energy capacity of the city to a large extent as we produce an alternative renewable energy fuel and also will contribute to climate action and carbon reduction which the entire world is aiming for.

Conversion of Unsorted Solid Waste into COAL Through Torrefaction Technology



Our Footprints

Varanasi NTPC Waste To Fuel Plant

Our Technology is approved by  National Thermal Power Corporation Limited, India's largest energy conglomerate-A Maharatna PSU-Public Sector Undertaking-Government of India. They have termed Our Associate Company Director as the Technology Provider for the Hon'ble Indian Prime Minister's Parliament Constituency, Varanasi Municipal Corporation's Solid Waste Process and Disposal Plant.

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