

RESTORING THE BALANCE





FOR A CLEANER BHARAT





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WHO ARE WE?



An initiative dedicated to:

restoring water bodies

managing waste through sustainable, green technology

Our innovative solutions treat all types of liquid & solid waste:

providing employment opportunities

contributing to society's greater social & moral responsibility

Our mission is to:

create a positive impact by generating wealth from waste, while preserving the environment









OUR EXPERTISE



MUNICIPAL SOLID WASTE MANAGEMENT

TORREFACTION

WATER
TREATMENT
PLANTS



IN-SITU BIOREMEDIATION GASIFICATION
BASED
WASTE TO
ELECTRICITY









ANDHRA PRADESH

- STP: 8 Projects
- FSTP: 18 Projects
- Bio-Mining: 3 Projects

TELANGANA

- Bio-Mining: 20 Projects
- Torrefaction: 1 Project
- Public Toilet Sludge Liquefaction

ASSAM

ETP 3MLD





INDIA'S PAIN POINTS





India Generates About
70 Million
Tonnes
Of MSW Annually

25 %

25% Of MSW Is RDF

Only 50% of the **Waste** undergoes treatment and the rest is landfilled

50 %

3184

3184 total **dumpsites** in India

NGT has imposed staggering fines, amounting to approximately Rs 80,000 crore, on various states and Union territories for poor waste disposal methods







The Solution - Torrefaction





Torrefaction is a thermal treatment process that involves heating RDF/MSW/AGRO **WASTE/STP SLUDGE** materials (typically between 200°C to 350°C) in the absence of oxygen, to remove its moisture and volatile organic compounds and to increase its energy density. The result is a product known as "Eco Green Coal" which is a dry, brittle and carbon-rich product that can be used which holds a calorific value of 3500-4000 kcal/kg.

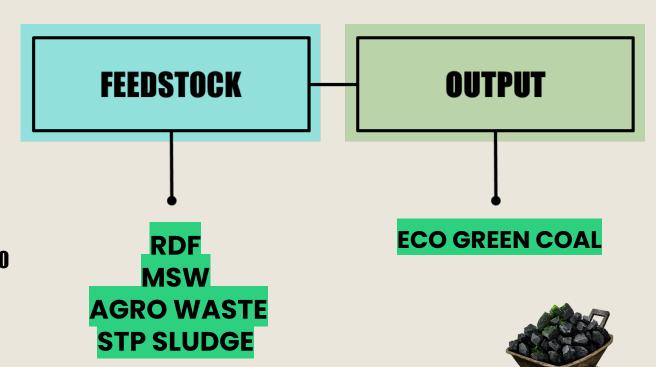


The Solution - Torrefaction





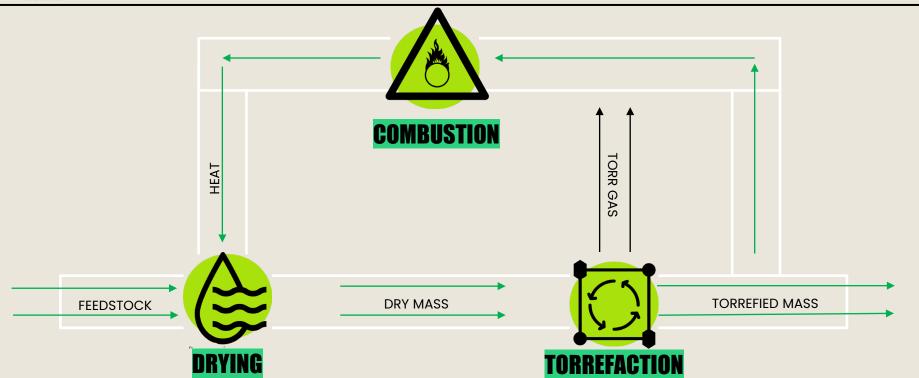
- ☐ Heating in the absence of oxygen 250 300 C
- □ Calorific value 3500 4000 Kcal/kg





THE PROCESS

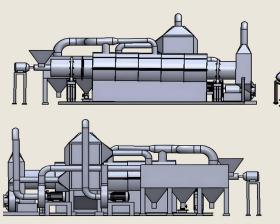


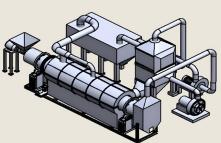




THE UNIT - 100 TPD









Installation: Dumpsite



Fuel Requirement: Nil



Cost Effective



Water: 2000 Ltr/day



Output: Up to 60% Eco Green Coal



Electricity: 100kw/h



24/7 Operations



BENEFITS





The calorific value (CV) of Eco Green Coal:

ENERGY DENSIFICATION

>4000 kcal/kg *viz* 4 Gcal/m3

The feedstock:
RDF/MSW/AGRO
WASTE/STP SLUDGE,
can help
eradicate the
solid waste
issue in India

WASTE UCTION

100 TPD plant can operate on IESSER LAND just 2 acres REQUIREMENT of land

EMPLOYMENT GENERATION

Establishment of Torrefaction plants will create employment, as the plant requires skilled & unskilled personnel

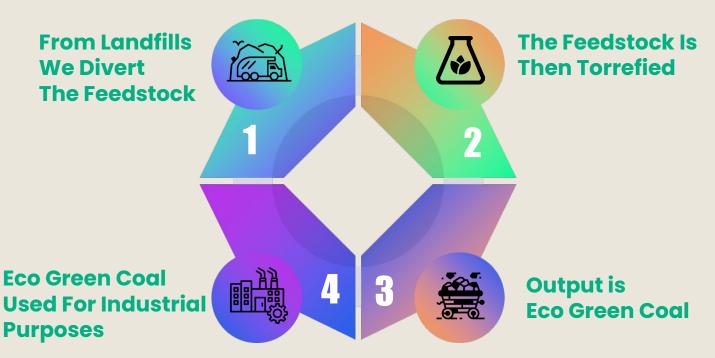
CIRCULAR

Torrefaction reduces reliance on traditional fossil fuels, minimizes waste generation & fosters a sustainable & resourceefficient system





THE CYCLE - LANDFILLS TO ECO GREEN COAL



Bio Waste And Water

Clean Solutions

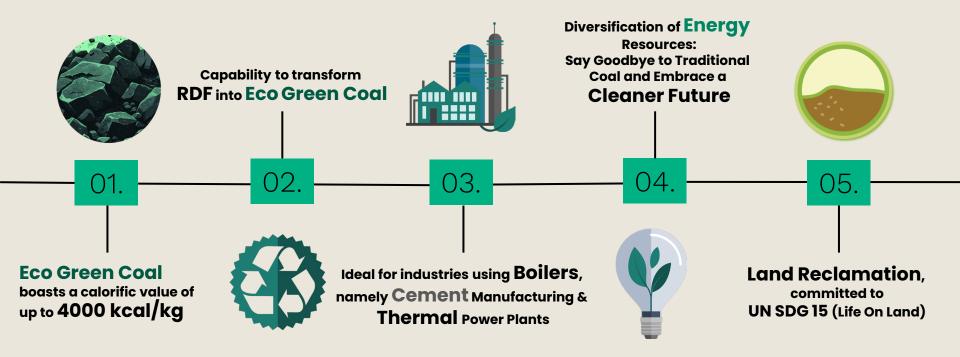






WHY ECO GREEN COAL?















WASTE TO WEALTH









WASTE TO WEALTH



OUR WARANGAL PLANT - 100 TPD









CONCLUSION



Our solution offers a sustainable and COST-effective way to manage solid waste and RDF piles at the current dump sites.

By setting up our fully automated unit, you can obtain a valuable source of energy in the form of high-quality Eco Green Coal, with a calorific value of 3500-4000 Kcal/kg.



This not only helps reduce environmental footprint, but also generates a valuable resource, with our innovative approach to waste management.

THANK YOU!

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