



**INTEGRATED  
ORGANIC SOLID WASTE  
MANAGEMENT  
FOR  
ZERO LANDFILL  
AND  
WASTE TO ENERGY**

**GREEN POWER**

to utilize the  
CONVERTEUR  
system for CSR  
production and  
ADVANCED  
SMOLDERING for  
energy generation.

Presented by  
GIE Africa AgroBio  
[www.africa-agrobio.com](http://www.africa-agrobio.com)

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# INTEGRATED “ORGANIC SOLID WASTE” MANAGEMENT

## ORGANIC SOLID WASTE

**Organic Solid Waste** refers to biodegradable waste materials derived from living organisms, including food scraps, yard waste, agricultural residues, and other organic materials that can decompose through biological processes.

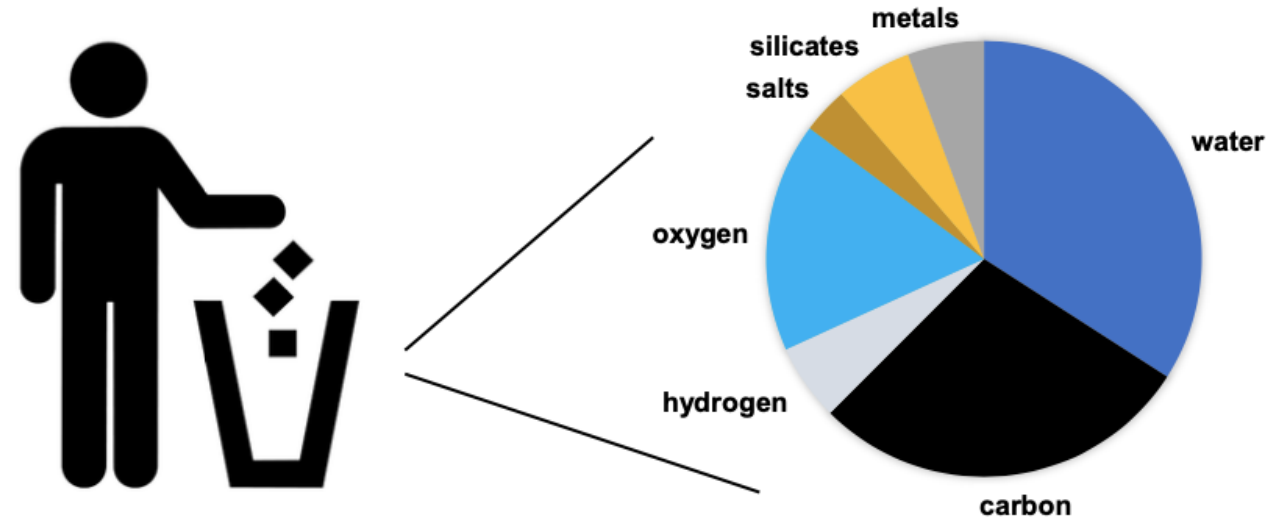
**These materials** are often managed through composting, anaerobic digestion, or other waste treatment processes aimed at recycling nutrients and generating energy.

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# ORGANIC SOLID WASTE COMPOSITION

The main components of solid organic waste are:

- **WATER**, making up between 20% and 60% of their weight
- **CARBON**, **HYDROGEN**, and **OXYGEN**, accounting for between 40% and 60%
- **METALS**, **SALTS**, and **SILICATES**, making up between 5% and 20%



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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## Overview of current waste management practices

- Landfill
- Sorting & recycling
- Incineration
- Composting
- Anaerobic Digestion



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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Environmental Impact**

Landfills risk groundwater contamination, methane emissions, and ecosystem disruption.

### **Space Limitations**

Finding suitable land is difficult, especially in populated or sensitive areas.

### **Regulatory Compliance**

Meeting strict environmental regulations is costly and time-consuming.

### **Public Opposition**

Communities often oppose landfills due to health, odor, and property concerns.

### **Long-Term Management**

Landfills require costly, ongoing management even after closure.

### **Financial Costs**

Development and maintenance involve significant financial investment.

### **Waste Diversion Pressures**

Growing emphasis on waste reduction challenges landfill viability.

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Health Risks**

Environmental pollution leads to serious health issues, including respiratory and cardiovascular diseases, especially in vulnerable groups.

### **Air Pollution**

Air pollution from industries, vehicles, and agriculture harms health and contributes to climate change, requiring stricter regulations and cleaner technologies.

### **Soil Pollution**

Soil pollution degrades land and contaminates the food chain, threatening food security and ecosystems, needing sustainable management.

### **Water Pollution**

Water pollution contaminates drinking water and harms aquatic life, necessitating better wastewater treatment and protection of water sources.

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Complexity**

Diverse plastic types and grades complicate sorting and recycling.

### **Contamination**

Food residues and other contaminants reduce recycling quality and efficiency.

### **Economic Viability**

High recycling costs and lower value of recycled materials often make virgin plastics more attractive.

### **Infrastructure**

Insufficient recycling facilities and technologies hinder effective plastic recycling.

### **Quality**

Recycled plastics often have lower quality, limiting their use in high-value applications.

### **Public Awareness**

Low public awareness and improper disposal practices affect recycling effectiveness.

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Contamination**

Glass can be contaminated with other materials, reducing the quality of recycled glass and complicating sorting processes.

### **Fragility**

Broken glass can pose safety risks and challenges during sorting and processing, requiring careful handling.

### **Economic Feasibility**

Recycling glass can be costly due to the need for specialized facilities and technologies, impacting economic incentives.

### **Limited Market**

**The market demand for recycled glass can be limited, affecting the profitability and sustainability of recycling programs.**

### **Sorting Complexity**

Different colors and types of glass need to be sorted accurately to ensure high-quality recycling, which can be labor-intensive and complex.



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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Contamination**

Metal waste often includes non-metal materials or mixed metals, complicating sorting and reducing the quality of recycled metals.

### **Complex Alloy Composition**

Various metal alloys require different processing methods, making it challenging to separate and recycle them efficiently.

### **Economic Viability**

High costs associated with advanced sorting technologies and processing can impact the economic attractiveness of recycling metals.

### **Infrastructure Limitations**

Insufficient recycling facilities and technologies can hinder effective metal recycling and processing.

### **Market Demand**

Fluctuating demand for recycled metals affects the profitability and sustainability of recycling efforts

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Emissions**

Incineration releases pollutants, including greenhouse gases and toxic substances, which can harm air quality and contribute to climate change.

### **Ash Disposal**

The process produces residual ash that can be hazardous and requires careful disposal or treatment, posing environmental and health risks.

### **High Costs**

Building and operating incineration facilities can be expensive, including costs for technology, maintenance, and compliance with regulations.

### **Limited Waste Reduction**

Incineration reduces waste volume but does not eliminate it entirely, and it can sometimes encourage continued waste production rather than reduction.

### **Public Opposition**

Community concerns about health risks and environmental impact can lead to opposition and delays in facility development.

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **Contamination**

Non-organic materials, such as plastics and metals, can contaminate compost, affecting its quality and usability.

### **Maintenance**

Effective composting requires regular turning, moisture control, and temperature management, which can be labor-intensive and complex.

### **Space Requirements**

Composting needs sufficient space and infrastructure, which can be challenging in urban areas or for large-scale operations.

### **Odor Management**

Improperly managed composting can produce unpleasant odors, which may lead to complaints from nearby residents.

### **Slow Decomposition**

The composting process can be slow, requiring time for organic materials to break down into usable compost, which can limit its efficiency.

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# INTRODUCTION TO WASTE MANAGEMENT CHALLENGES

## KEY CHALLENGES



### **High Initial Costs**

Setting up anaerobic digestion systems involves significant capital investment in infrastructure and technology.

### **Complex Operation**

The process requires careful management of temperature, pH, and feedstock composition to maintain efficiency and prevent system failures.

### **Sludge Management**

Digestate, the byproduct of anaerobic digestion, can require additional treatment or disposal, posing management challenges.

### **Gas Handling**

The system produces biogas, which needs to be effectively captured, processed, and utilized to ensure safety and efficiency.

### **Limited Feedstock Variety**

Anaerobic digestion works best with specific types of organic waste; feedstock with high levels of contaminants or variability can reduce performance and efficiency.

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# REGULATORY CONTEXT



**United  
Nations**

Sustainable Development

## United Nations Sustainable Development Goals (SDGs)

**SDG 12:** Focuses on substantially reducing waste generation through prevention, reduction, recycling, and reuse by 2030.

**SDG 13:** Emphasizes integrating climate change measures into national policies, including reducing CO2 emissions through improved waste management.

## Summary

These international objectives align with the goals of the Energy Transition Law for Green Growth, reinforcing the commitment to sustainable waste management, reducing greenhouse gas emissions, and promoting a circular economy.

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# THE NEED FOR INTEGRATED WASTE MANAGEMENT

## WHY A NEW APPROACH IS NEEDED

Traditional waste management methods are inefficient, unsustainable, and struggle to meet evolving regulations.

An integrated approach addresses these issues by improving efficiency, promoting sustainability, and ensuring regulatory compliance.

## INTRODUCTION TO INTEGRATED WASTE MANAGEMENT

This approach aims for **Zero Landfill** by minimizing waste sent to landfills and promoting **Waste to Energy**, where non-recyclable waste is converted into energy.

Together, these strategies form a comprehensive solution to modern waste management challenges, supporting environmental goals and resource efficiency.

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# OUR GREEN POWER INTEGRATED WASTE MANAGEMENT APPROACH

## ORGANIC SOLID WASTE

### ABANDONED WEALTH

Organic solid waste is an important economic resource due to the valuable content found in its raw materials.



Energy



Water



Metals

Carbon



Oxygen



Hydrogen



# OUR GREEN POWER

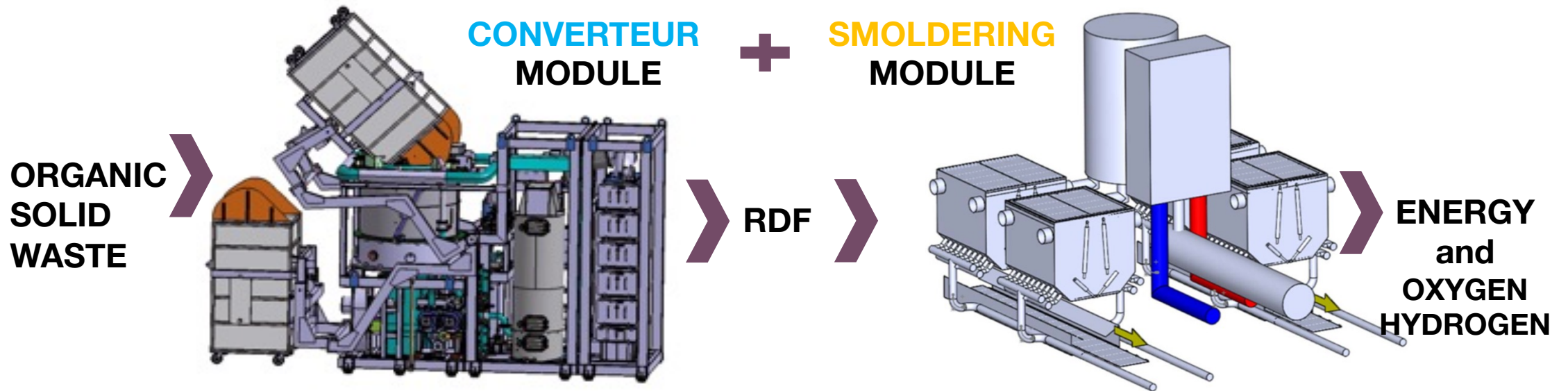
## INTEGRATED WASTE MANAGEMENT APPROACH

Directly converting organic solid waste into standardized **Refuse Derived Fuel (RDF)**

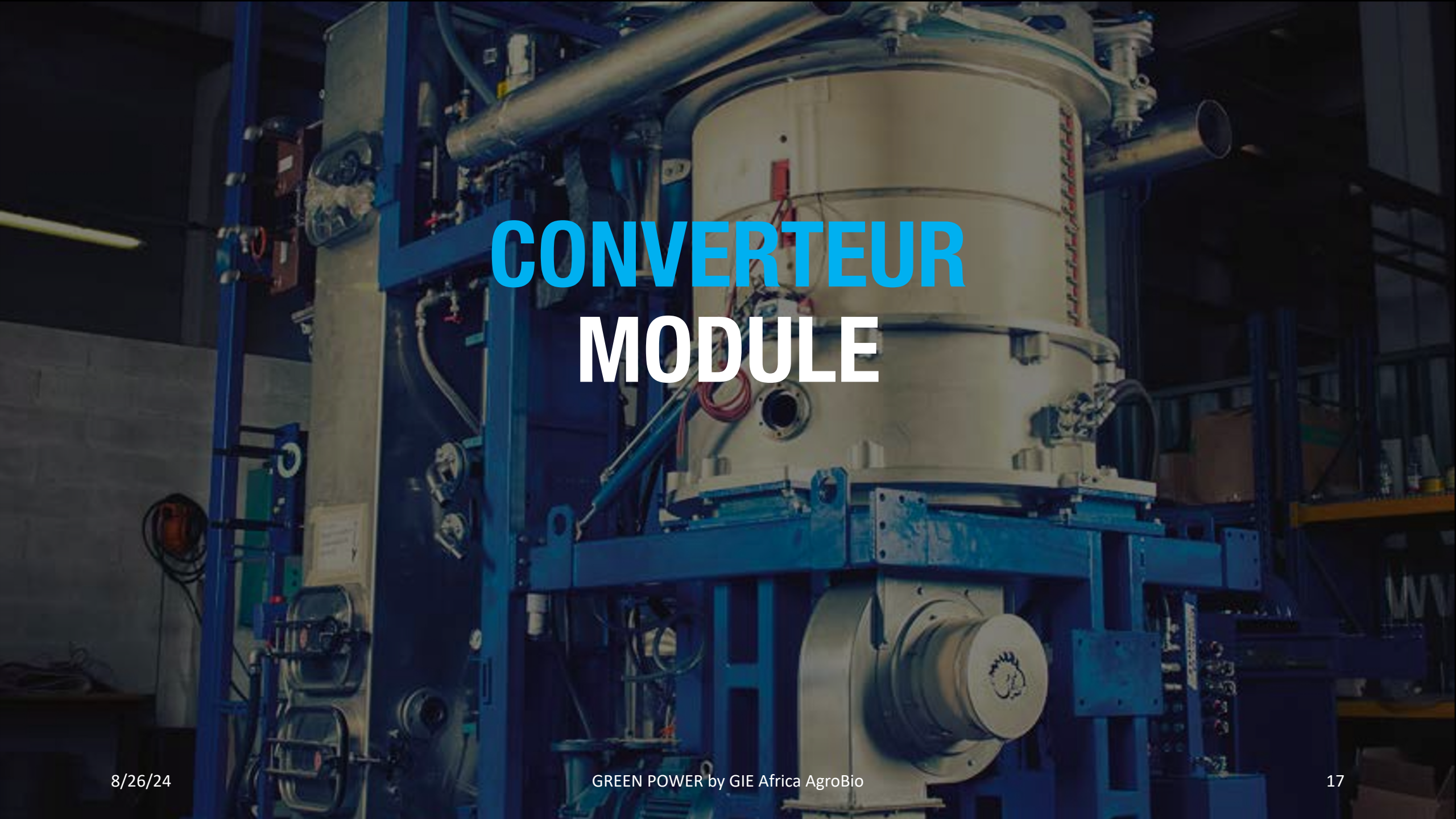
Recovery of water contained in the waste

Then directly valorize the **RDF** into **thermal and electrical energy, and more.**

Recovery of metals contained in the waste







# CONVERTEUR MODULE

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# INTRODUCING THE “**CONVERTEUR**” SYSTEM



**CONVERT ORGANIC SOLID WASTE INTO STANDARDIZED REFUSE DERIVED FUEL (RDF)**

- With or without sorting
- Without pollution
- Without health risks
- Recovery of all recyclable metals at the end of the process

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# INPUT WASTE TYPES FOR **CONVERTEUR**

- MUNICIPAL/URBAN SOLID WASTES
- NON-HAZARDOUS INDUSTRIAL WASTE
- COMMERCIAL ACTIVITY WASTE
- GREEN WASTE
- FOOD WASTE & BIOWASTE
- INFECTIOUS WASTE

## INCLUDING

- METALS
- PLASTICS
- GLASS
- WOOD
- PAPER & CARDBOARD
- TIRES
- ...

## TYPES OF WASTES ACCEPTED



# CONVERTEUR PROCESS



## CYCLE

Three steps in just 30 minutes

### 1. SHREDDING

Unrecognizable

Volume reduction 80%

### 2. EVAPORATION

Sec

Weight reduction 50%

### 3. SANITIZING

Sterilization or pasteurization



**SAFETY**

Without a flame  
The system is working  
in depression

**POLLUTION-FREE**

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# CONVERTEUR OUTPUT

## REFUSE-DERIVED FUEL

**DRY**  
**INERT**  
**LIGHT**  
**STABLE**  
**STERILE**  
**ODORLESS**  
**LESS WEIGHT**  
**LESS VOLUME**



**WEIGHT**  
– 50%

**VOLUME**  
– 80%

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# CONVERTEUR OUTPUT

## REFUSE-DERIVED FUEL STANDARDIZED (EN 15359)

- MOISTURE CONTENT < TO 10%
- ENERGY CONTENT > 4 kWh/kg
- SIZE < 3 mm
- REDUCES THE ENVIRONMENTAL IMPACT OF GREENHOUSE GASES (CO<sub>2</sub>, METHANE, ...)



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# USE CASES OF RDF

## 1. ENERGY PRODUCTION

**RDF** is burned to generate heat and electricity, reducing fossil fuel use and supporting renewable energy.

## 2. COGENERATION

**RDF** enables simultaneous production of heat and electricity, enhancing energy efficiency through cogeneration systems.

## 3. BIODIESEL PRODUCTION

**RDF**'s organic content can be processed into biodiesel, providing a sustainable alternative to conventional diesel fuels.



1 kg of waste into energy = 1 kg of CO<sub>2</sub> avoided from fossil sources.

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# **BENEFITS OF USING RDF**

## **OVER TRADITIONAL WASTE DISPOSAL METHODS**

### **1. Waste Reduction**

RDF reduces landfill use by converting waste into fuel, extending landfill lifespan and turning waste into a resource.

### **2. Energy Generation**

RDF provides an alternative energy source, producing electricity and heat, and reducing reliance on fossil fuels.

### **3. Reduced Landfill Dependency**

Diverting waste to RDF reduces landfill pressure, mitigating issues like leachate and methane emissions.

### **4. Lower Environmental Impact**

RDF typically results in fewer environmental issues compared to landfilling, with advanced pollution control technologies minimizing emissions.

### **5. Cost-Effectiveness**

RDF can be more cost-effective than landfilling, with potential revenue from energy production and lower long-term management costs.

### **6. Resource Recovery**

RDF processing allows for the recovery and recycling of valuable materials, supporting a circular economy.

### **7. Operational Efficiency**

RDF streamlines waste management by consolidating processes and improving overall waste handling practices.

### **8. Reduced Greenhouse Gas Emissions**

RDF helps lower greenhouse gas emissions by reducing landfill reliance and utilizing waste as a fuel source.



# USER CONVERTEUR

- Municipalities
- Hospitals
- Ports
- Airports
- Catering companies
- Shopping centers
- Tourist centers
- Pleasure boats
- NATO navies (Italy, France, United Kingdom, Canada, Australia, ...)



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# CONVERTEUR RANGE

## HI 5000 MO

5000 liters of waste from 500 to 600 kg/h  
Machine curb weight\* 16000 [kg]  
Footprint 8000x2500 – h 6500 mm

## HI 2000 MO

2000 liters of waste from 600 to 800 kg/h  
Machine curb weight\* 14000 [kg]  
Footprint 6700x2500 – h 6500 mm

## HI 1000 MO

1000 liters of waste from 200 to 300 kg/h  
Machine curb weight\* 12000 [kg]  
Footprint 6700x2500 – h 5900 mm

## HI 400 MO

400 liters of waste from 100 to 150 kg/h  
Machine curb weight\* 2200 [kg]  
Footprint 2300x1500 – h 1800 mm

...

Power consumption 0.4 to 0.6 [Kw/kg]

Capacity according to waste density

\*Excluding weight and electrical cabinet footprint



# ADVANCED SMOLDERING MODULE

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# INTEGRATED WASTE MANAGEMENT **GREEN POWER** WITH **ADVANCED SMOLDERING** MODULE FOR

- Reduce Risks to Human Health
- Recover All Recyclable Materials
- Zero Landfill
- Waste-to-Energy
- **Respect the Environment**



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# INTRODUCING THE **ADVANCED SMOLDERING** SYSTEM



The **eco-friendly solution** for directly managing **composite organic solid waste** or **refuse-derived fuel** standardized and transformed directly into **thermal and electrical energy** using the **Advanced Smoldering Technology.**



# ADVANCED SMOLDERING TECHNOLOGY

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# ADVANCED SMOLDERING TECHNOLOGY

**Advanced Smoldering** is an oxidation technology that enables the thermal destruction of organic compounds, the recovery of inert materials, and the prevention of environmental pollution



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# ADVANCED SMOLDERING TECHNOLOGY

**NO SMOKE = NO POLLUTION**

**Advanced Smoldering** Technology continuously controls the **oxidation process**, thus preventing the formation of flames.

The process occurs slowly until all the organic compounds in the raw material are converted into a **synthetic combustible gas**.

During this phase, **no smoke or fly ash** is produced.

The **synthetic combustible gas** is then burned, achieving the same environmental effect as burning natural gas.

**ZERO SMOKE**



**GAS  
FLAME**

**SYNGAS**





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# ADVANCED SMOLDERING TECHNOLOGY

## KEY FEATURES

Process temperature:  $\approx 400\text{ }^{\circ}\text{C}$

Destruction of viruses and bacteria: **100%**

Heat recovery: **> 90%**

Metal recovery: **> 90%**

Inert ash:  $\approx 3\%$

Air pollution: **0% dioxins, furans, and particulates**

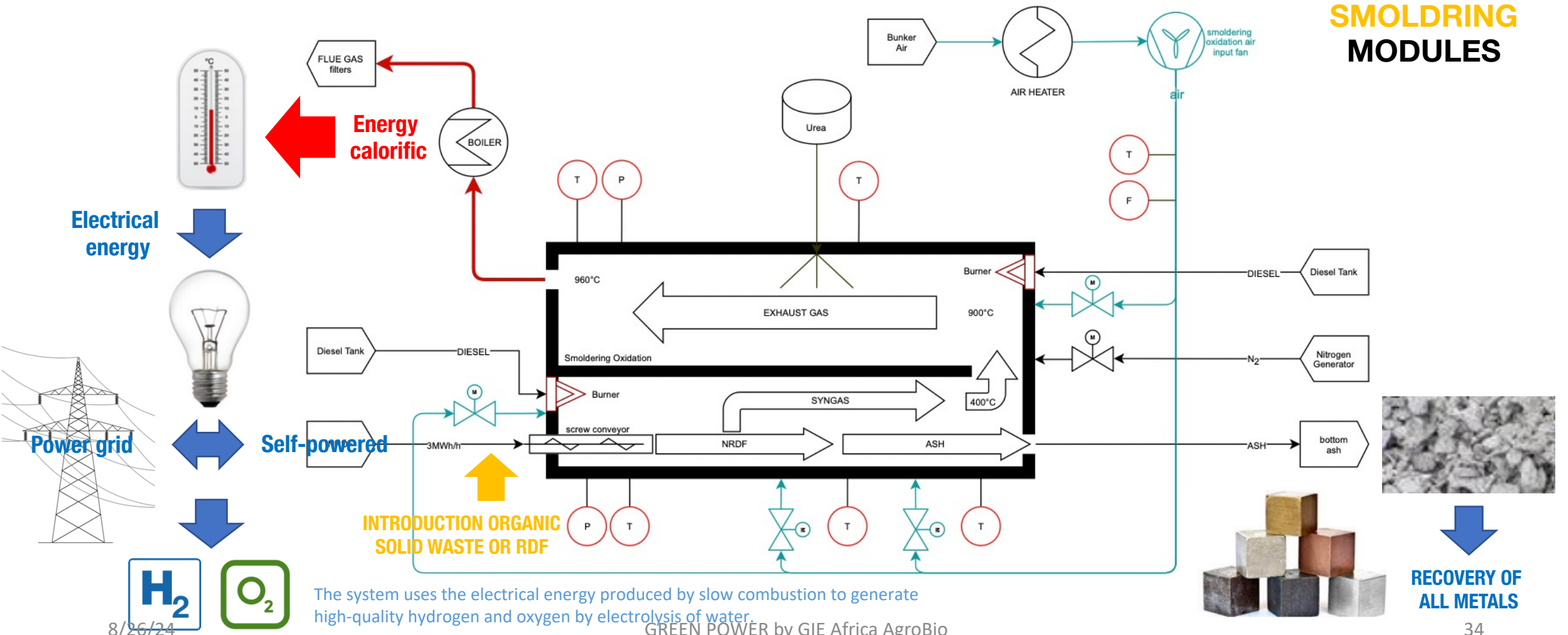
Contribution to reducing **greenhouse gas emissions**



# ADVANCED SMOLDERING TECHNOLOGY PROCESS



## SMOLDING MODULES



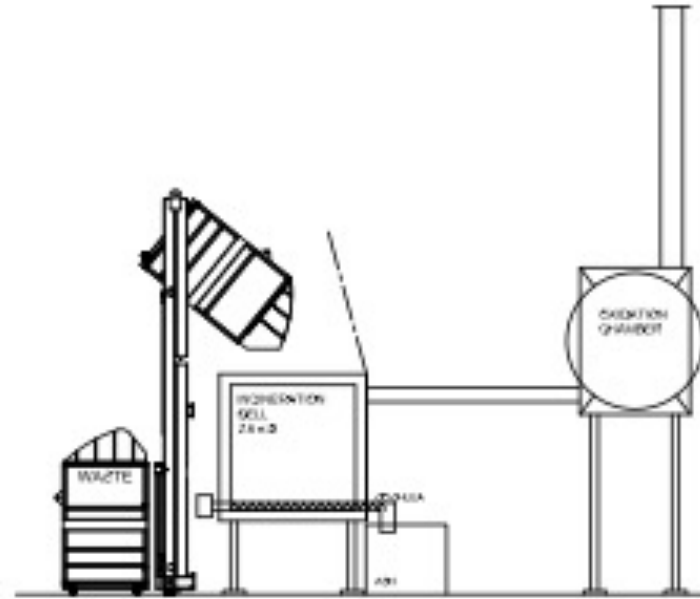
The system uses the electrical energy produced by slow combustion to generate high-quality hydrogen and oxygen by electrolysis of water.

GREEN POWER by GIE Africa AgroBio

# ADAPTABILITY & SCALABILITY OF **ADVANCED SMOLDERING** MODULES

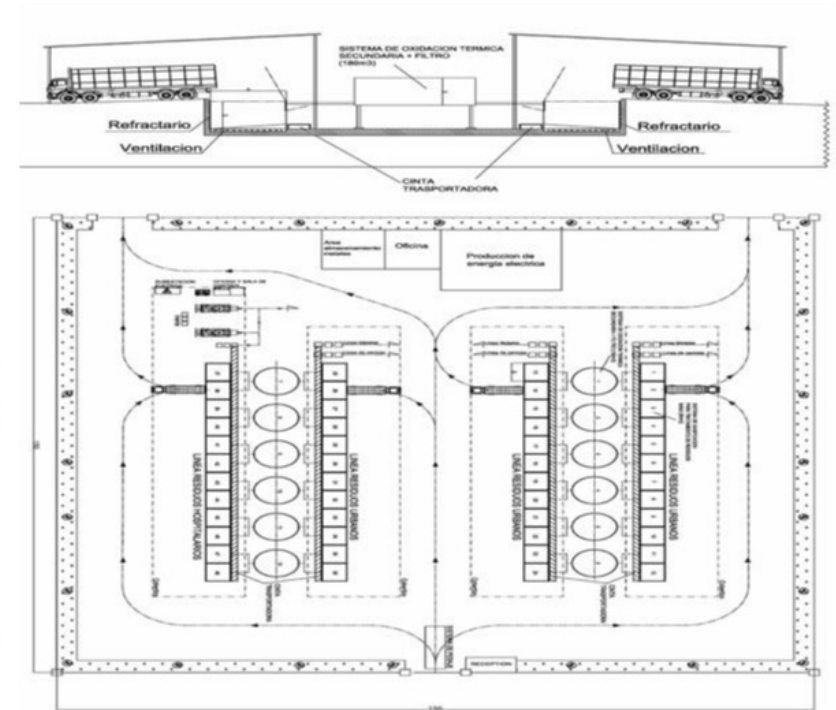
**ADVANCED SMOLDERING MODULES** offer adaptability to various capacities for processing **organic solid waste** or **RDF**, ensuring flexibility for different waste types and regional requirements.

The systems are scalable, supporting operations from small to large-scale projects.



**Module from 0.5 to 5 tons per day**

**Plant up to 1.000 tons per day**



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# ENVIRONMENTAL BENEFITS

## ADVANCED SMODERING



Compared to conventional solid waste incineration methods, the emissions from the system's exhaust gases have a significantly lower content of polluting components.

### **TOTAL ABSENCE OF DIOXINS AND FURANS**

The system prevents their formation, unlike conventional incinerators, which require costly filters that don't fully eliminate health risks.

### **VERY LOW CONCENTRATION OF NOX AND SOX**

The system prevents the formation of harmful NOx and SOx pollutants by using a sub-stoichiometric amount of air.

### **INSIGNIFICANT PARTICULATE EMISSIONS**

The system minimizes particulate emissions to an insignificant level, preventing the release of harmful heavy metal particles

# ENVIRONMENTAL BENEFITS

## ADVANCED SMODERING

ESTIMATED  
EMISSIONS  
BY THE PLANT

POLLUTANT	UNIT	ADVANCED SMOLDERING EMISSION LEVEL	1/2 HOUR EU LIMIT	1-DAY EU LIMIT
CO	ppm	< 30	100	50
NOx	ppm	< 150	400	200
TOC	ppm	< 2	20	10
ASH	ppm	< 5	30	10
Hg	ppm	Not detectable	0,05	0,03
HF	ppm	< 1	4	1
Cd + Ti	ppm	Not detectable		0,05
HEAVY METALS	ppm	<< 0,5		0,5
HCl	ppm	<< 10	60	10
SO2	ppm	< 8	200	50
DIOXINS-FURANS	ppm	Not detectable		< 0,1

# ENVIRONMENTAL BENEFITS

## ADVANCED SMODERING

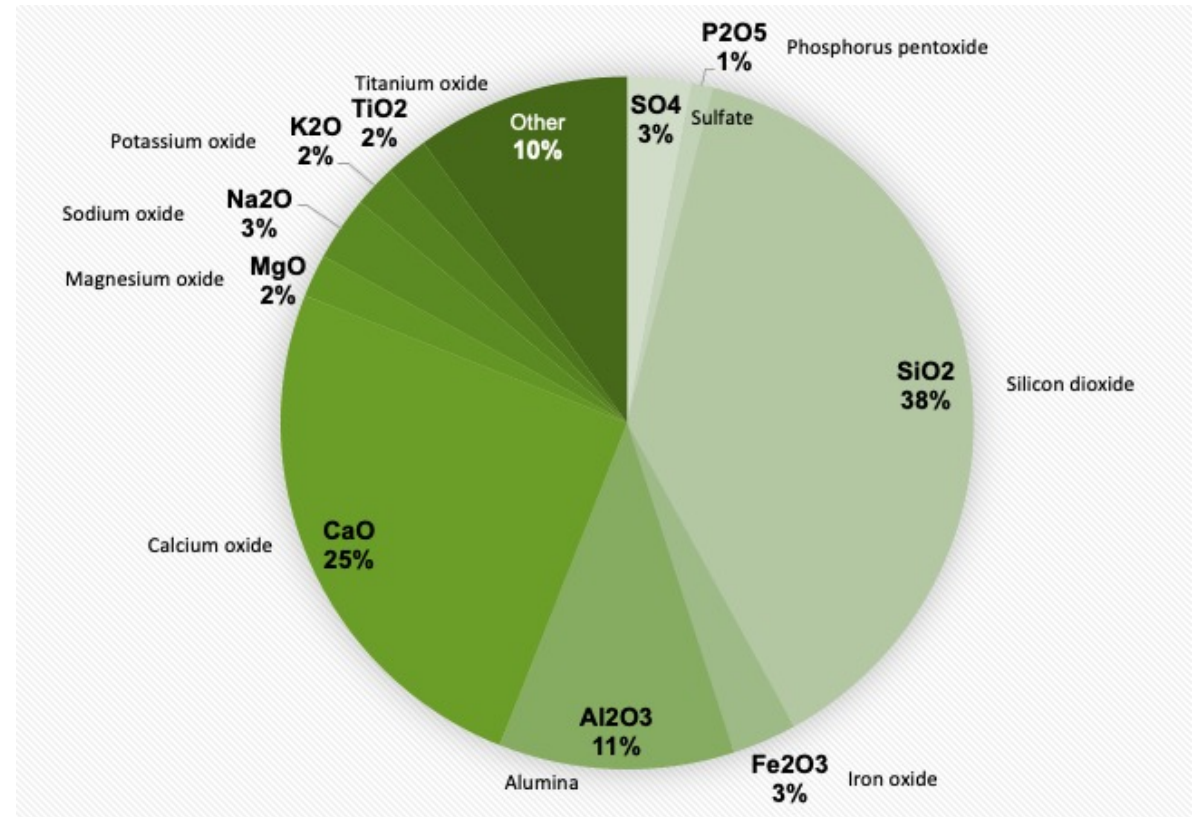
### FINAL RESIDUE

INERT WHITE ASH  
NO TRACE OF CARBON

THE ASH FROM THE  
TREATMENT IS INERT AND ITS  
CHEMICAL COMPOSITION IS  
SIMILAR TO THAT OF SAND.

\*Depending on the waste processed

### ASH COMPOSITION \*



# ENVIRONMENTAL BENEFITS

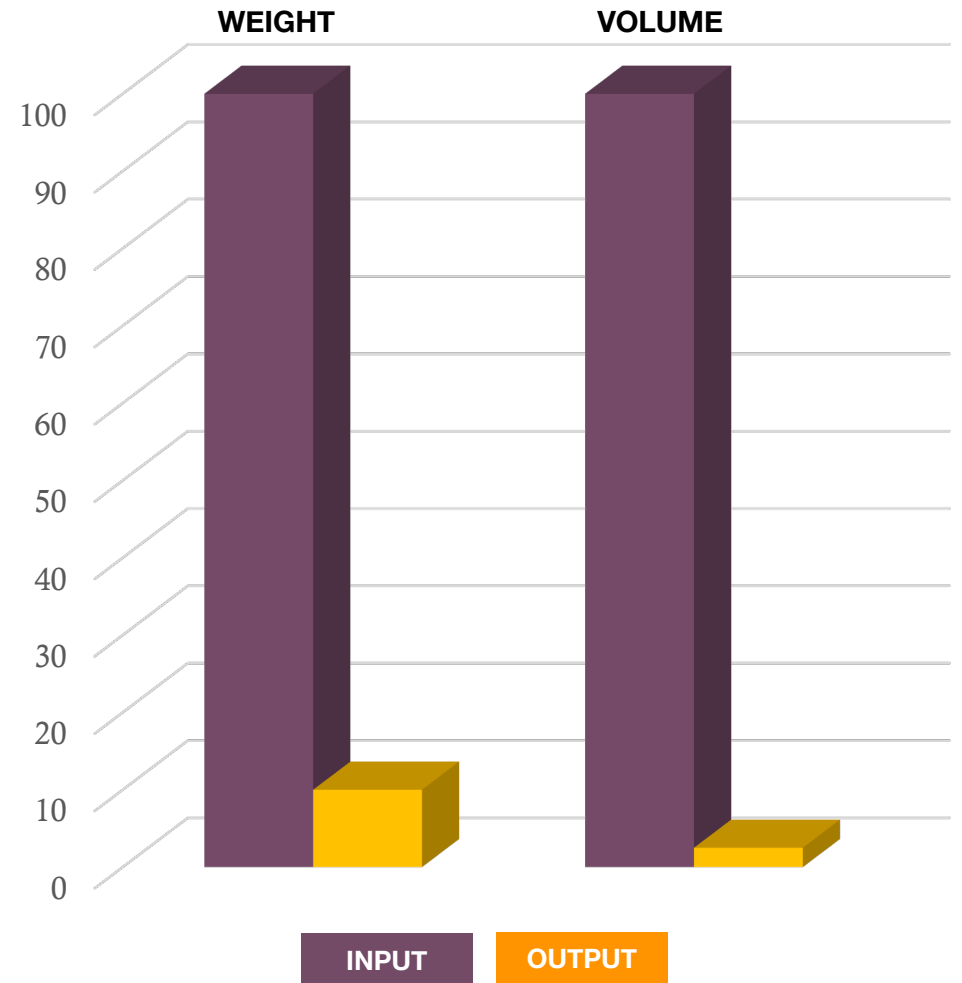
## ADVANCED SMODERING

### FINAL RESIDUE

INERT WHITE ASH  
NO TRACE OF CARBON

### WASTE INPUT AND ASH OUTPUT

THE ESTIMATED QUANTITY IS  
APPROXIMATELY 10% BY WEIGHT  
AND 3% BY VOLUME OF THE  
INCOMING WASTE.



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# ECONOMIC BENEFITS **ADVANCED SMOLDERING**

**Advanced Smoldering Technology** is a comprehensive solution that transforms waste management into an economically viable and environmentally responsible practice.

By reducing landfill use, generating and selling energy, recovering valuable by-products, and creating carbon credits, it offers multiple streams of economic benefits.

This makes it an attractive option for businesses, municipalities, and investors seeking to balance environmental sustainability with economic growth.

## **1.COST SAVINGS FROM REDUCED LANDFILL USAGE**

**Advanced Smoldering module** significantly cuts costs by reducing the amount of waste sent to landfills.

This leads to lower landfill fees, prolongs the life of current landfills, and reduces environmental costs.

By diverting waste, businesses and municipalities save on disposal fees, delay the need for new landfill sites, and minimize potential environmental damage and associated fines.



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# ECONOMIC BENEFITS **ADVANCED SMOLDERING**

## 2. ENERGY PRODUCTION AND REVENUE GENERATION

Advanced Smoldering converts organic solid waste or RDF into valuable energy, providing significant economic advantages

- **Electricity Production and Sale**

The process generates electricity that can be used onsite or sold to the grid, turning waste into a profitable resource while reducing energy costs.

- **Heat Recovery**

The heat produced can be utilized in industrial processes, district heating, or agriculture, further enhancing economic benefits.

- **Carbon Credits**

By reducing landfill use and generating green energy, the process qualifies for carbon credits, offering an additional financial incentive through their sale.

## 3. VALORIZATION OF BY-PRODUCTS

The by-products of Advanced Smoldering — metals, water, and CO<sub>2</sub>—offer additional economic value through further processing

- **Metal Recovery from Ashes**

Metals can be extracted from residual ashes, enabling recycling and conversion of waste into valuable materials.

- **Water Valorization**

Water recovered from organic waste can be treated and repurposed for industrial use, agriculture, or sold as a resource, thereby reducing costs and adding economic value.

- **CO<sub>2</sub> Utilization**

Captured CO<sub>2</sub> can be used to produce hydrogen and oxygen through electrolysis, supporting the hydrogen economy and enhancing the environmental benefits of the process.

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# ECONOMIC BENEFITS **ADVANCED SMODERING**

## 4. JOB CREATION AND ECONOMIC GROWTH

The implementation and operation of Green Power Smoldering facilities stimulate the local economy by creating jobs and attracting investment.

- **Employment Opportunities**

Jobs are created in the design, construction, and operation of the facilities, benefiting the local workforce.

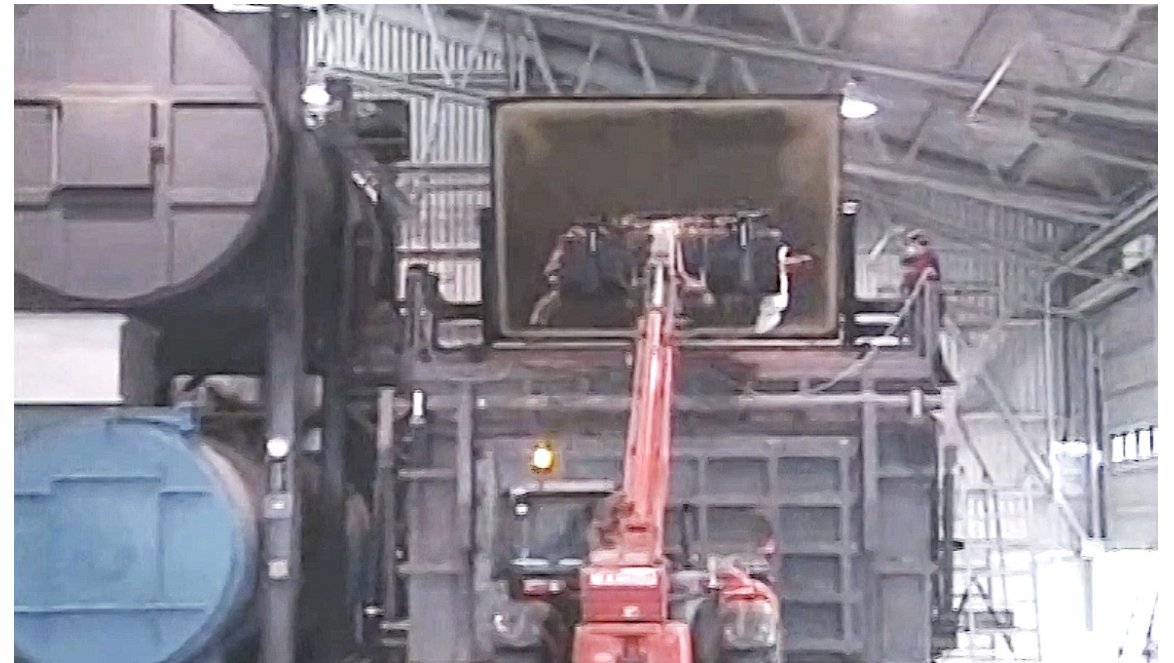
- **Support for Green Industries**

This technology supports green industries, fostering long-term economic resilience and growth.

- **Innovation and Investment**

The process encourages investment in sustainable technologies, driving innovation and positioning regions as leaders in waste management and renewable energy.

**3 kg** OF MUNICIPAL WASTE CONTAINS  
THE SAME THERMAL ENERGY AS **1 KG** OF CRUDE OIL



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# USER'S **ADVANCED SMOLDERING**

- Municipalities
- Cities
- Hospitals
- Food industries
- Ports / Airports
- Army
- ...





# Integrated Organic Solid Waste Management **GREEN POWER**

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# GREEN POWER SOLUTION

## How the **CONVERTEUR** & **ADVANCED SMOLDERING** systems work together

### **CONVERTEUR** modules

These systems convert organic solid waste into standardized Refused Derived Fuel (RDF) standardized.

This transformation reduces the waste's weight by approximately 50% on average by removing water and decreases its volume by 80% through fine shredding.

These improvements significantly increase the calorific value of the RDF standardized.

Additionally, the process allows for prolonged storage of the waste, as it is dry and sanitized, and reduces the number of transports needed to bring it to energy conversion centers.

The goal is to install the converters as close as possible to the waste production sites.

### **ADVANCED SMOLDERING** modules

These systems are capable of directly processing solid organic waste, whether it is pre-shredded or not, sorted or not, as well as standardized RDF (Refuse Derived Fuel) transformed by the CONVERTEUR modules.

Energy performance varies depending on the preparation of the organic solid waste, with optimal results achieved when exclusively using standardized RDF.

These systems generate thermal energy, which can be used for industrial applications before being converted into electrical energy to ensure the self-sufficiency of GREEN POWER sites. Any excess electricity can then be fed into the power grid.

# GREEN POWER SOLUTION

## EXAMPLE ORGANIZATION OF A GREEN POWER SITE

### 1. RECEPTION AREA

- Waste Reception
- Pre-grinding
- Metal Recovery

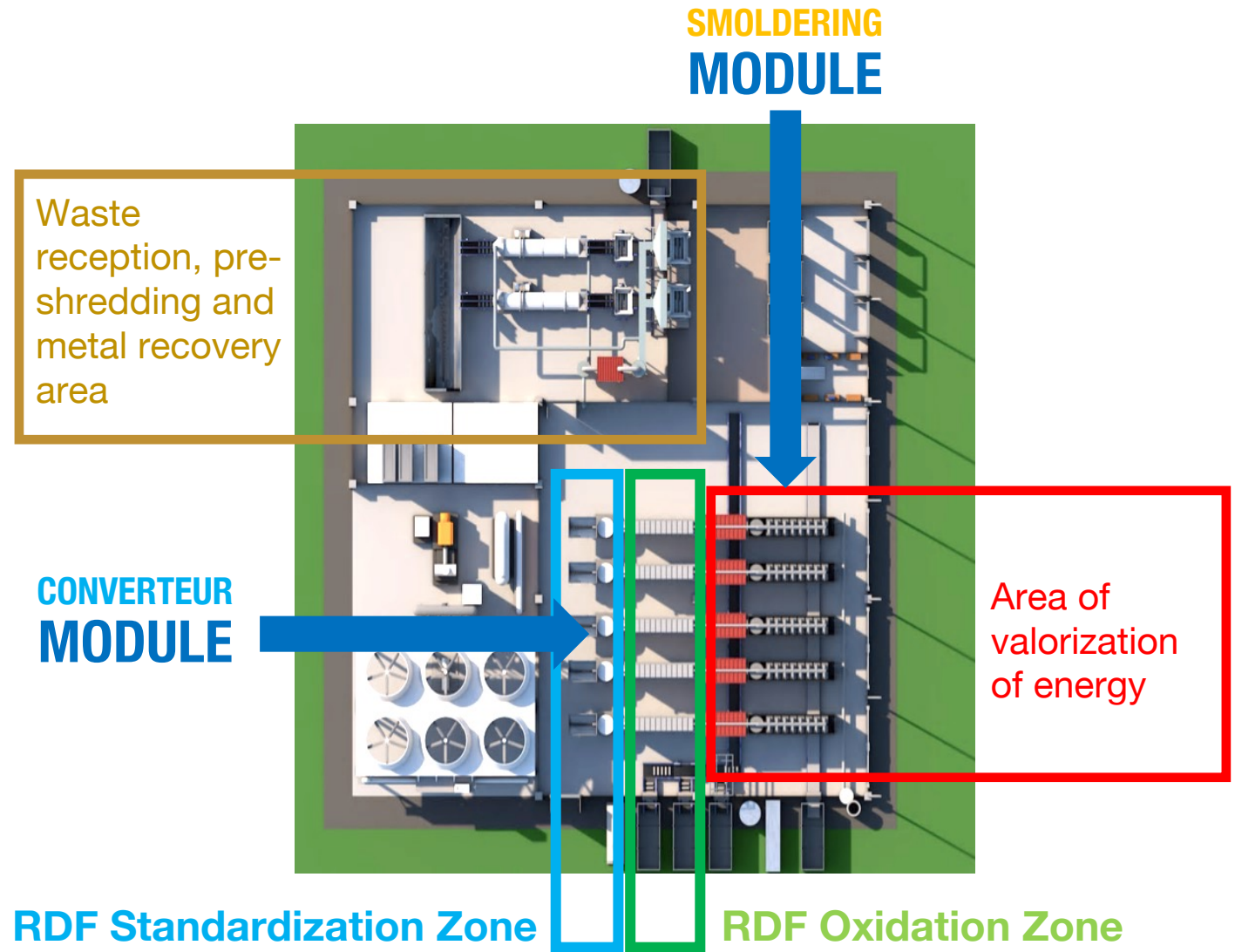
### 2. CONVERTER MODULES AREA

- Conveying Pre-Shredded Waste
- Waste Treatment In RDF

### 3. MODULES SMOLDERING AREA

- RDF Routing & Power Supply
- RDF Treatment In Energy

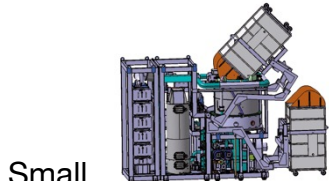
### 4. POWER GENERATION AREA



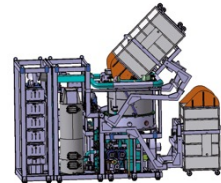
# GREEN POWER SOLUTION

## Synergies in achieving ZERO LANDFILL & WASTE TO ENERGY

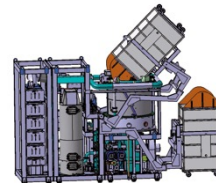
CONVERTEURS



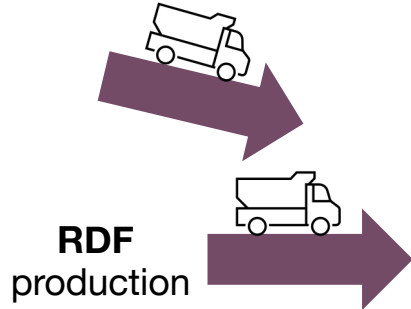
Small Municipality



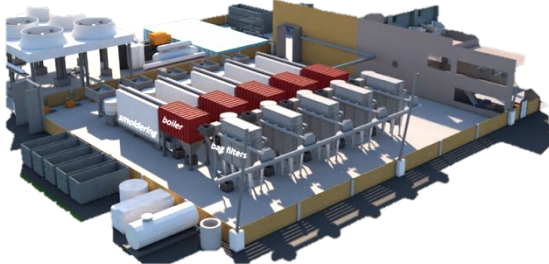
Airport



Food & Beverage Industry



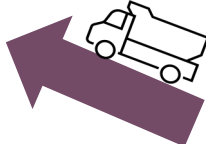
GREEN POWER  
Plant  
Large capacity



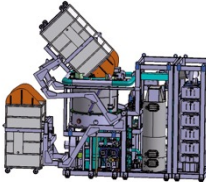
with  
Converteur & Advanced Smoldering  
Energy production



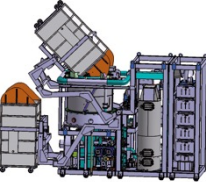
Less road transport



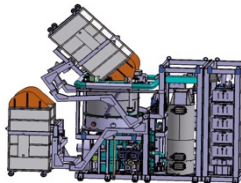
CONVERTEURS



Hospital



Small Municipality



Landfill

RDF  
production

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# CONCLUSION

## GREEN POWER SOLUTION

### GREEN POWER INTEGRATED WASTE MANAGEMENT SOLUTIONS

ADAPTABLE ACCORDING TO THE PLACE OF PRODUCTION OF THE WASTE

- MUNICIPALITIES
- WASTE LANDFILLS
- FOOD AND BEVERAGE INDUSTRIES
- ...

MODULAR ACCORDING TO THE QUANTITIES AND NATURE OF SOLID ORGANIC WASTE OLD OR NEW

### SOLUTIONS POUR REpondre AUX OBJECTIFS DE

- REDUCED HEALTH RISKS
- POLLUTION REDUCTION
- REDUCTION OF LANDFILL WASTE
- REDUCTION IN THE VOLUME OF WASTE SORTED BUT NOT RECOVERED LOCALLY
- REDUCING THE ENVIRONMENTAL IMPACT OF LANDFILLS
- REDUCED RISK OF FIRE AND EXPLOSION
- REDUCTION OF ENVIRONMENTAL IMPACT THROUGH ENERGY RECOVERY FROM WASTE





ENVIRONMENTAL SOLUTION

# INTEGRATED ORGANIC SOLID WASTE MANAGEMENT

- Transform organic solid waste directly on site into a dry, stable, sterile and odorless powder
- Converting solid organic waste and RDF into pollution-free energy
- Upgrading metals
- Valorization of CO<sub>2</sub> and extracted water into Oxygen and Hydrogen

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