

**Plasma**  
GASIFICATION 

# PLASMA GASIFICATION



# WASTE

PLASMA GASIFICATION



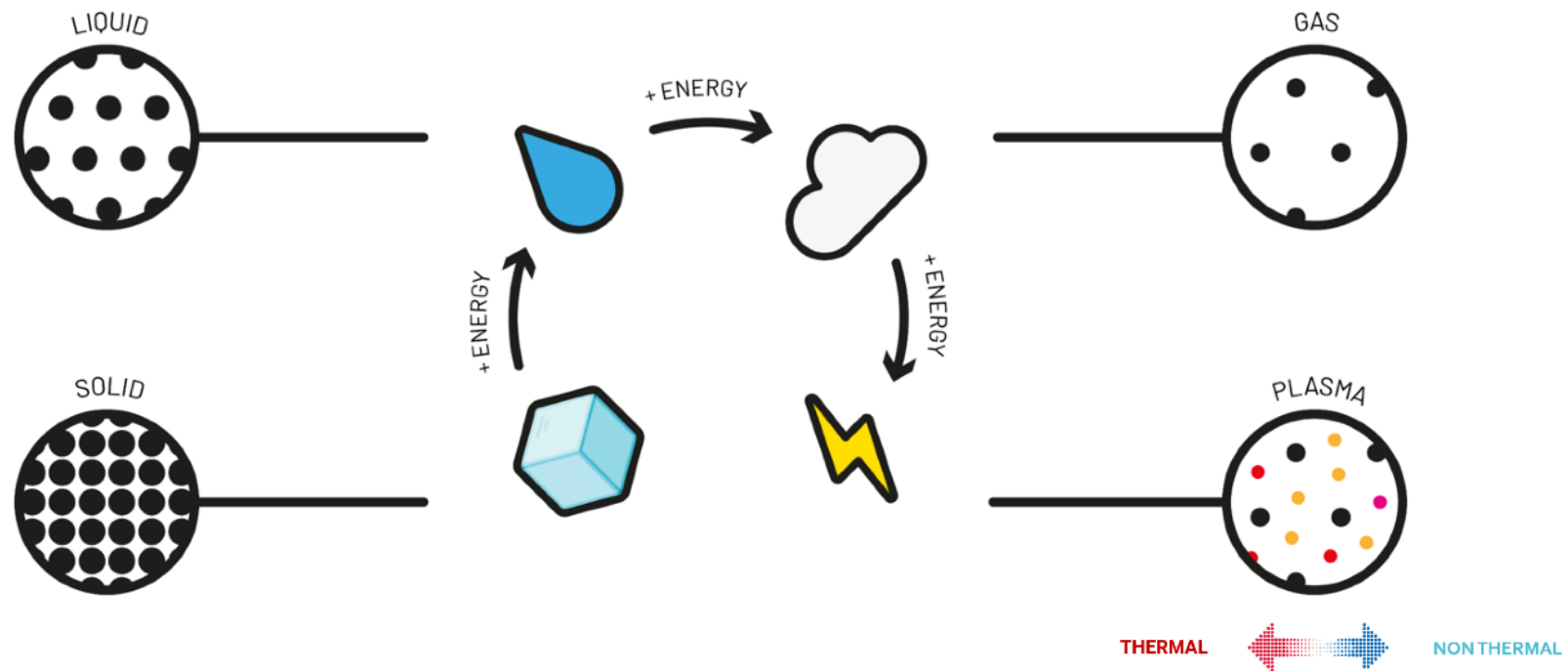
# ABOUT US

**Sin Fronteras Medical Supplies LLC (SFMS)** is an international healthcare and clean-technology company headquartered in Miami, Florida. We connect governments, healthcare institutions, and private organizations with innovative medical and environmental solutions that advance public health, safety, and sustainability.

As a registered U.S. Federal Government contractor (CAGE Code: 8RKM5), UN Global Marketplace (UNGM) supplier, and certified Minority Business Enterprise, SFMS brings proven experience navigating complex regulatory environments and delivering large-scale public-private initiatives. We hold a CLIA laboratory certificate and IATA/DOT certifications for the transport of infectious substances, reflecting our commitment to the highest standards of safety and compliance.

With an established network of global strategic partners, SFMS is positioned to drive the development and deployment of next-generation clean-technology infrastructure — including waste-to-energy solutions such as plasma gasification — that address critical environmental challenges while creating sustainable economic value for communities and governments worldwide.

# PLASMA



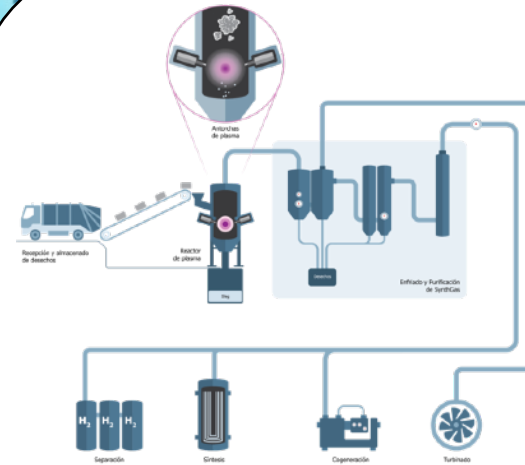
• 4th state of matter

• 99% of the Universe

• Manifestations on earth "Natural Plasmas"

• Natural mechanism of the earth to heal itself

# PLASMA GASIFICATION



## What is plasma gasification?

Waste management by thermal plasma that disintegrates matter to its basic components efficiently and without impact on the environment



## Plasma Torch

Temperatures Up To 10000°C

# BY-PRODUCTS

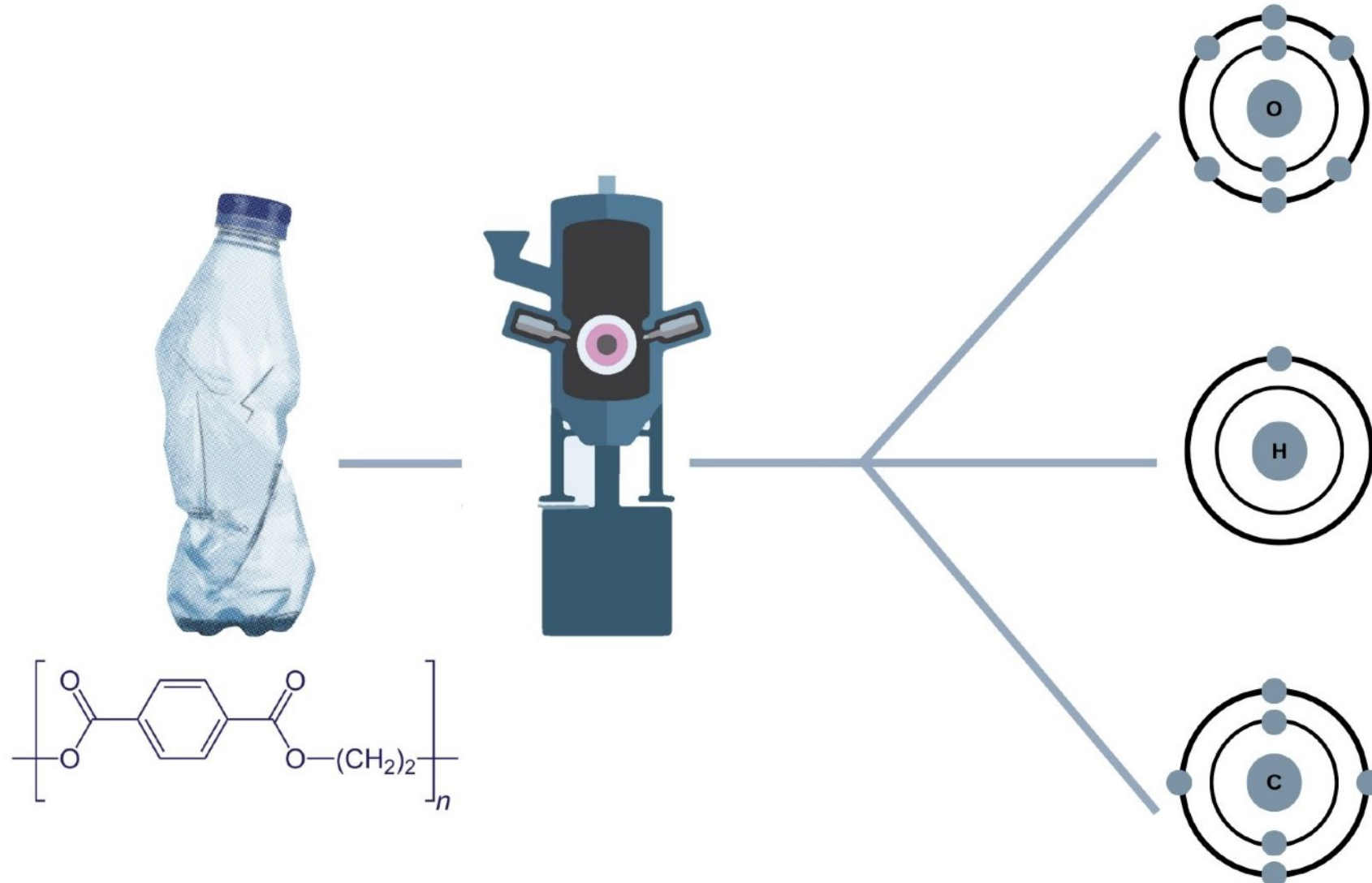


**SYNGAS**

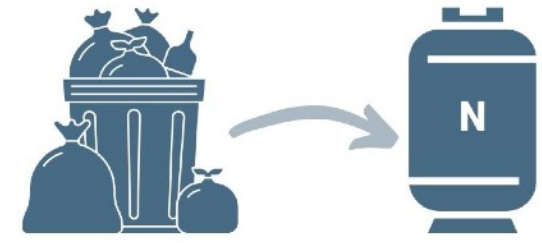
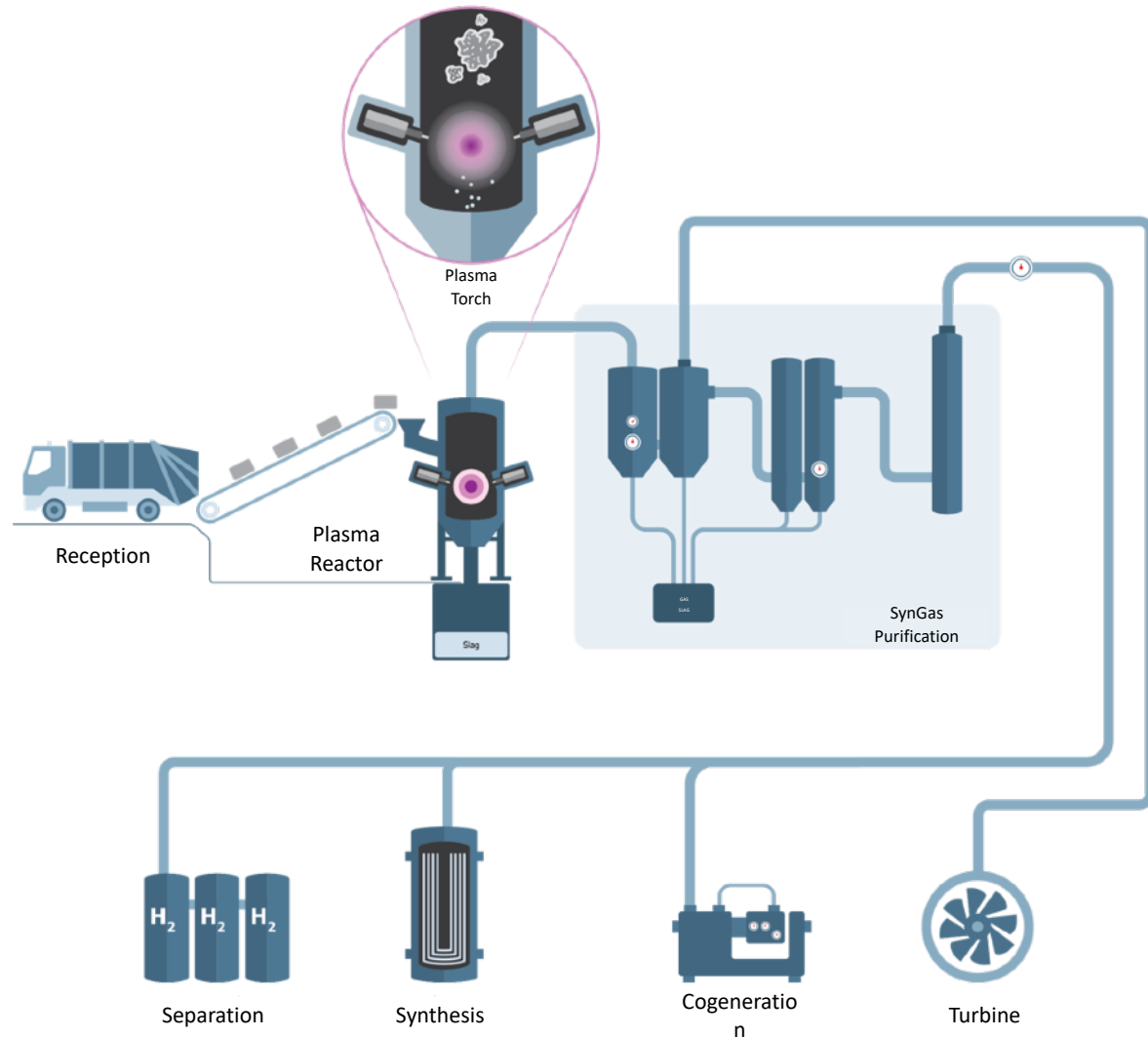


**SLAG**

# PLASMA GASIFICATION

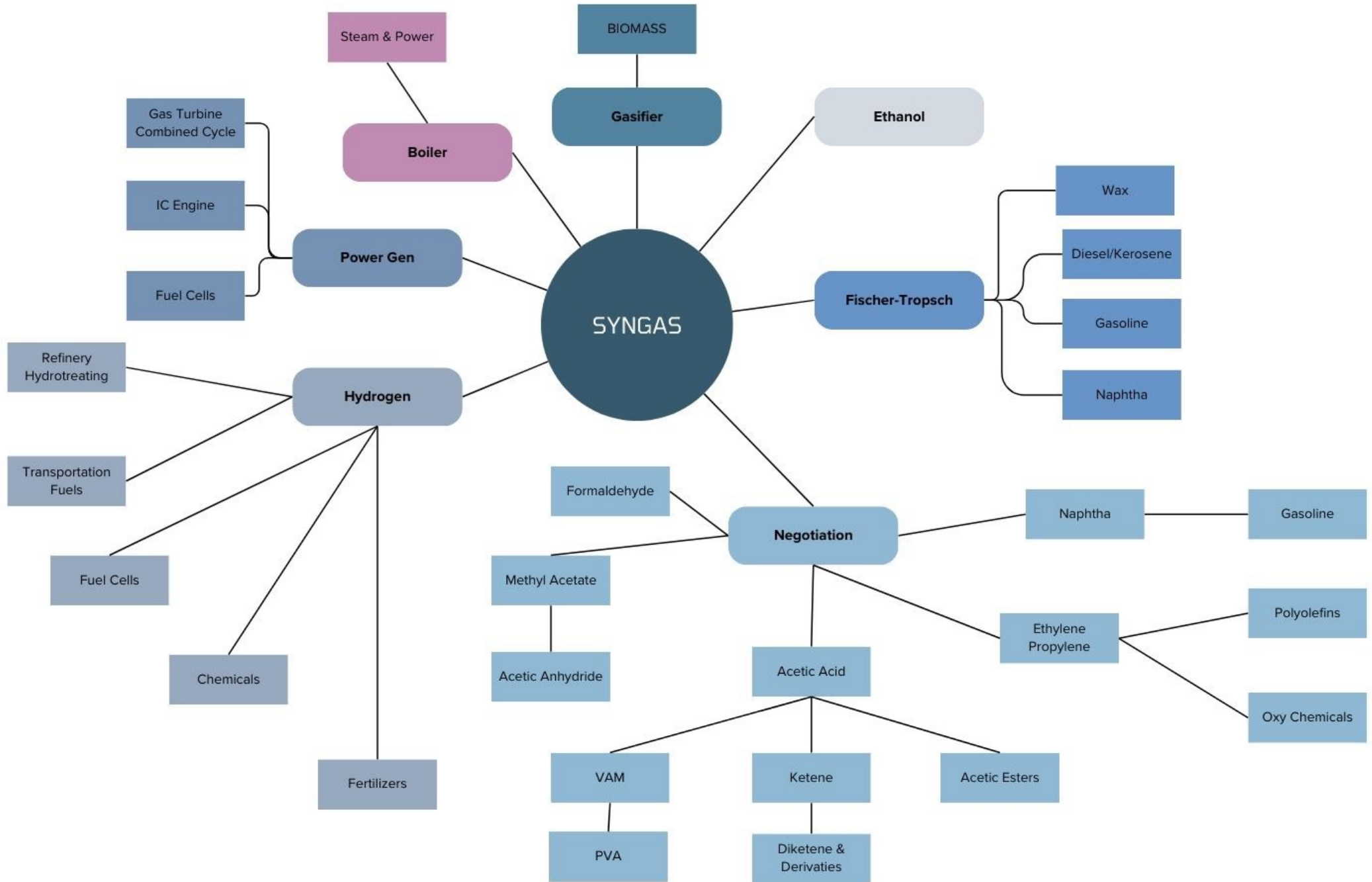


# PROCESS



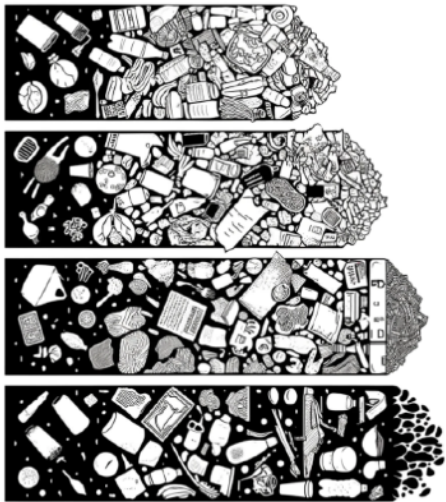
## Plasma Gasification





# WASTE THERMAL TREATMENT

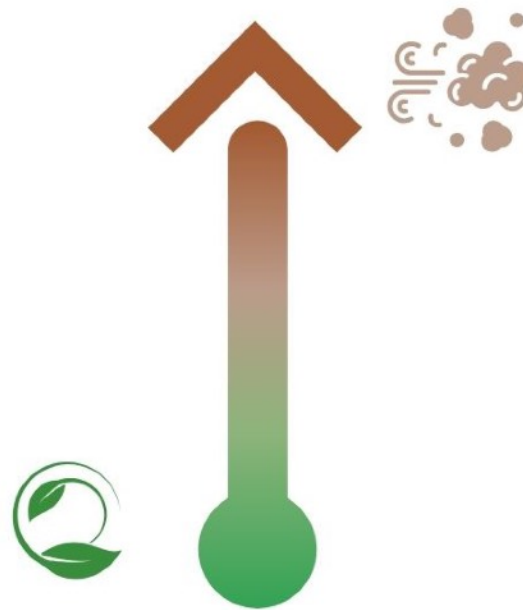
## Waste Type



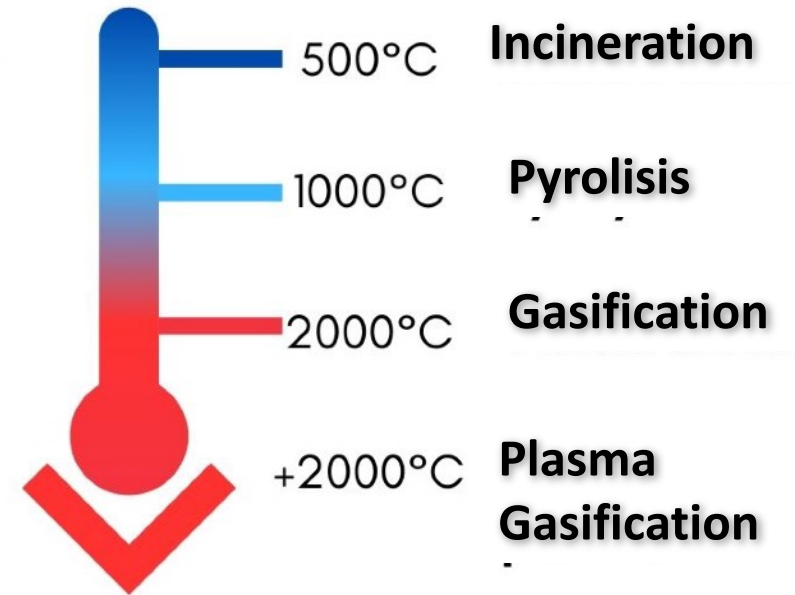
## Power Generation



## Contamination



## Temperature



# PLASMA TORCHES

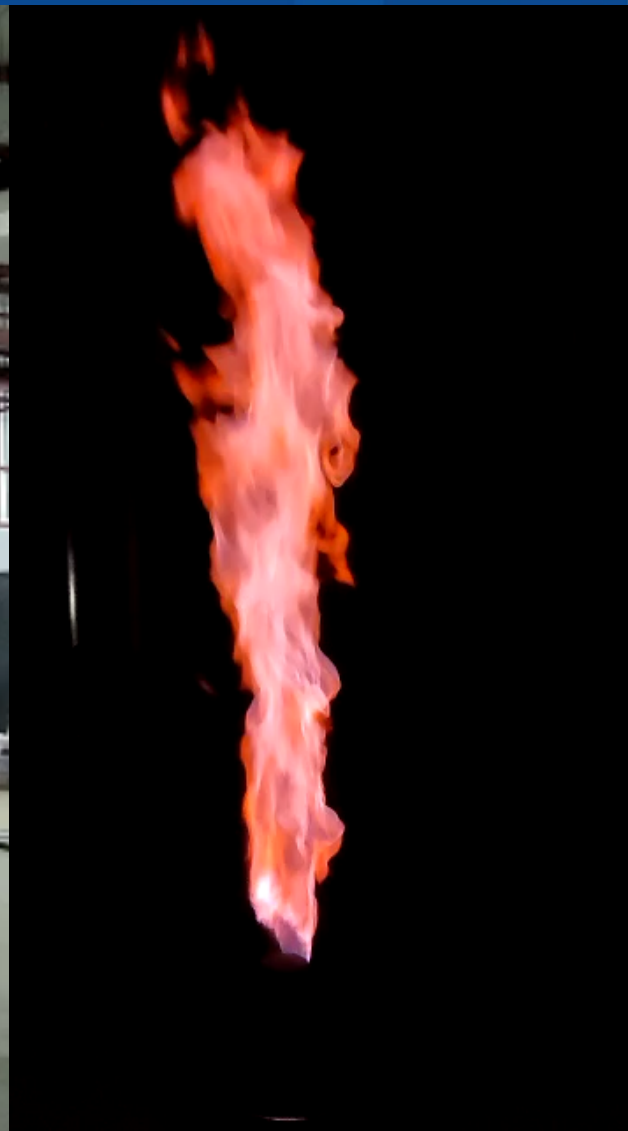


**Plasma Temperature range  
3,000°C to 10,000°C**

# 2/4TON-DAY



# 2/4TON-DAY



# REACTOR OPERATION



Waste Entry



Gas

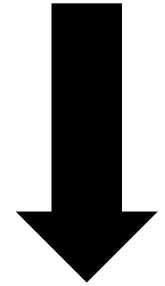


End of Process  
Plasma

# BIOMASS TEST

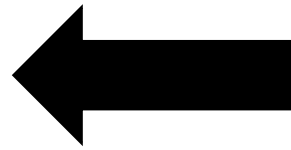


Coffee  
Grounds



- Pineapple Stubble
- Sugar Cane
- Oil Palm

# BIOMASS TEST



Electric  
Generator

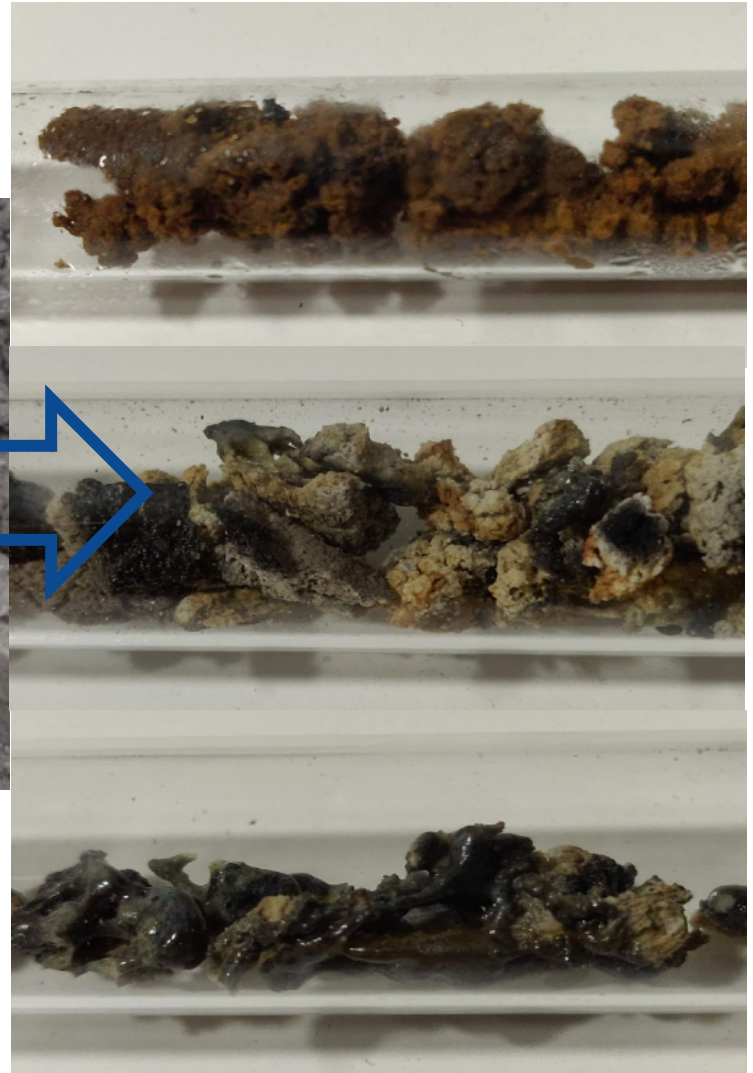


End of process  
Plasma



Slag

# PLASMA GASIFICATION





Before  
Plasma Gasification



After Plasma Gasification



**Sludge**

# PLASMA GASIFICATION



Preliminary Preparation  
Crushing

# PLASMA GASIFICATION



# PLASMA GASIFICATION



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Sin Fronteras Medical Supplies

Detalles de Contacto:  
Tel. +1(646) 784-9154 / +1(954) 553-9133

[info@sfmedicalsupplies.com](mailto:info@sfmedicalsupplies.com)  
[www.coldplasmatechnologies.com](http://www.coldplasmatechnologies.com)  
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