



Itzama: A potential Partner

*An opportunity to facilitate energy independence
through green energy projects*

Itzamà as a potential Partner

Our Mission: “Become a key player in the renewable energy and energy efficiency sector to facilitate a sustainable development in the emerging countries through the transfer of knowledge and the promotion of energetic independence”

ITZAMA'

Transfers new technologies and solutions to facilitate countries energetic independence

Consultant in converting energy projects into CDM projects

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BOTSWANA

Vision 2016

Willingness to invest in green technologies to mitigate climate change

Need to increase energy generation

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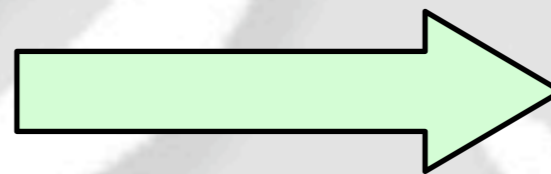
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The Itzamà Opportunity

The Itzamà opportunity

CARBON-NEUTRAL ENERGY HARVEST FROM MUNICIPAL SOLID WASTE



Waste to Energy



New Sources of Revenues:

**Metal
Recycling**

Bio fuel

**Electricity to
the grid**

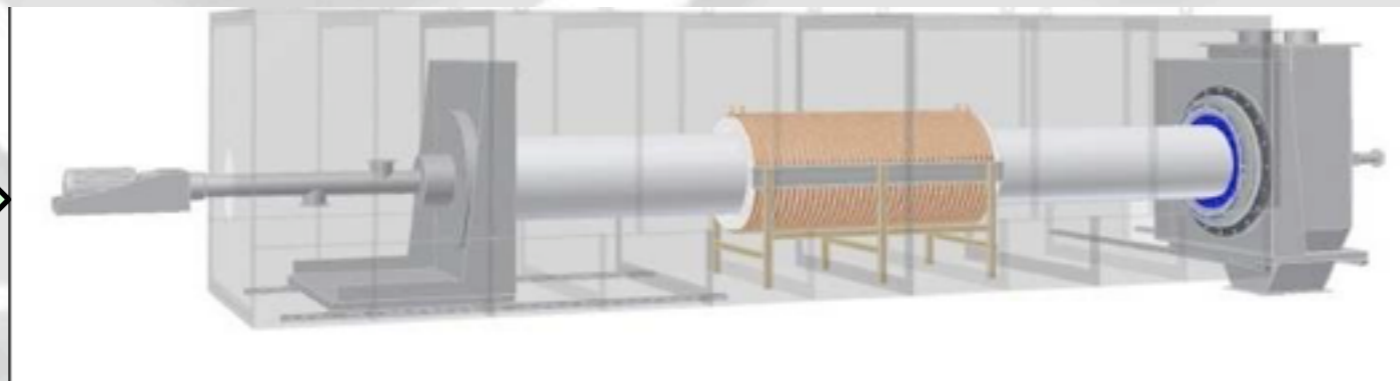
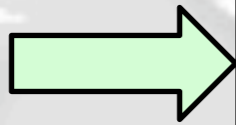
**Carbon
Credits**

The Itzamà opportunity

THE NEW TECHNOLOGY – WASTE GASIFICATION

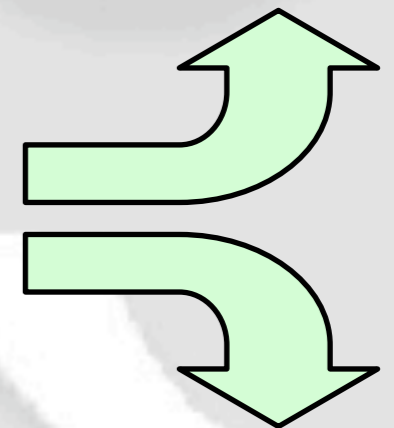
Ultra-High temperature gasification ($> 1,500^{\circ}\text{C}$) is the destructive distillation of an organic material

**Pulverised
Waste ex.
Recycled
materials**



Patented Gasification technology

Organic Syngas



**Inorganic sand-
like material**

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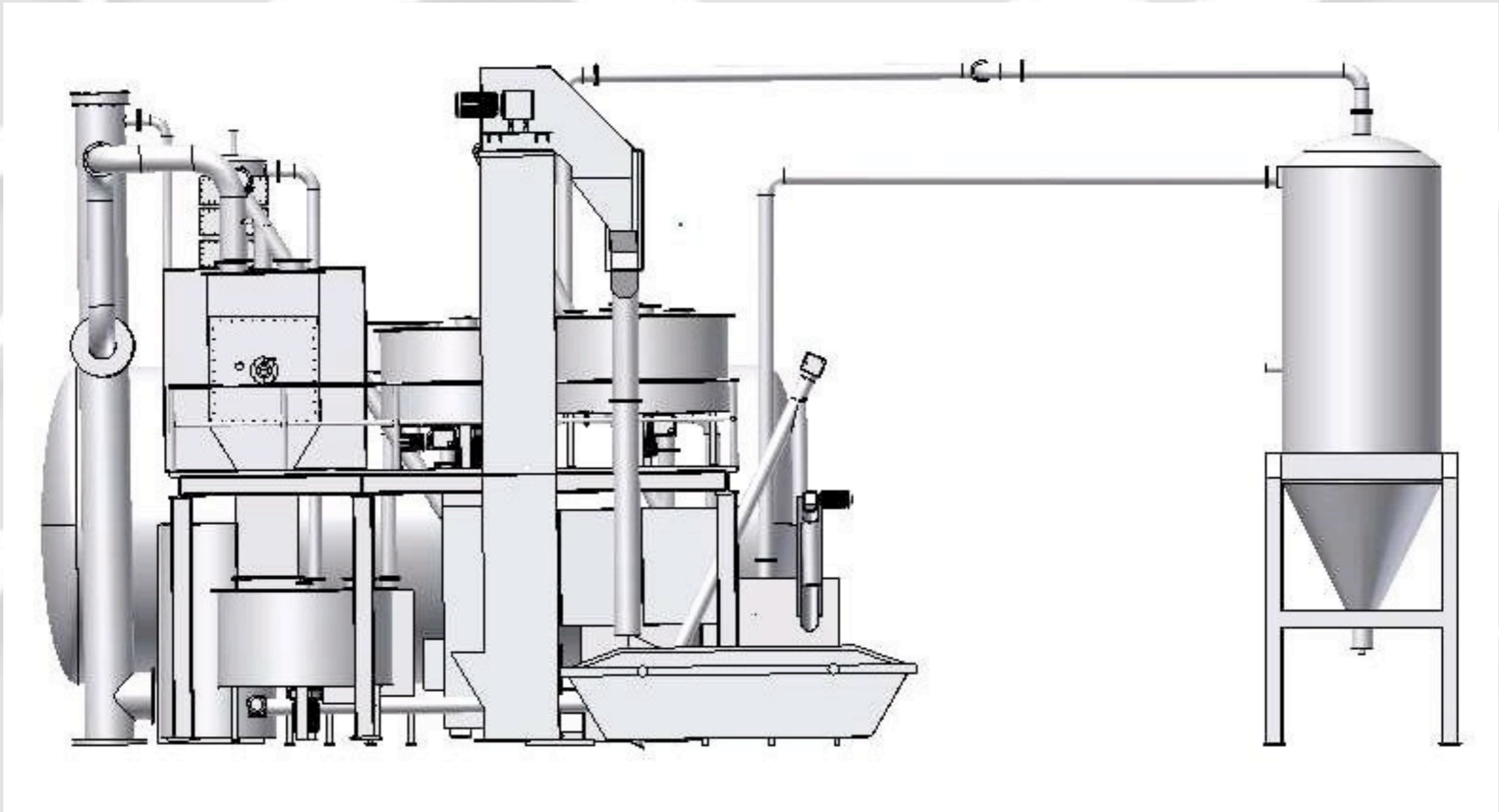


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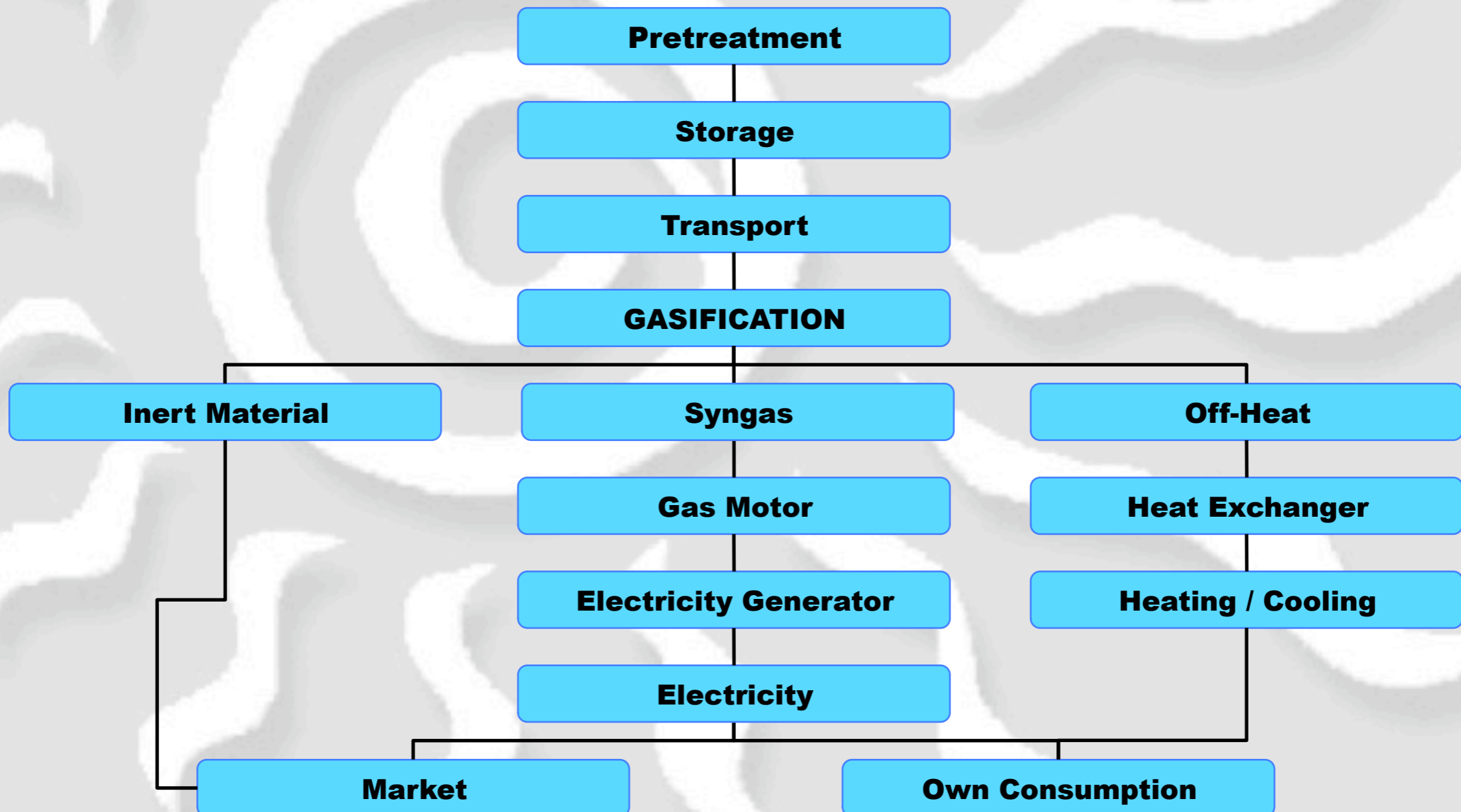


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The Itzamà opportunity

WASTE GASIFICATION ADVANTAGES

Versatility

25t/day modular plant up to 500 t/day

Any waste: Agricultural waste, municipality waste

Efficiency

Very High Energy recovery

Multiple usages for Syngas

Great Power output

Carbon Neutrality

No Incineration = No Emissions

Meeting highest and most secure environmental rules

Eligible for Carbon Credits via CDM

The Itzamà opportunity

WASTE GASIFICATION EXAMPLES*

25 t/day municipality
waste

Potential Energy
Output in 365 days
7 GWh / year

Potential yearly
Carbon Credits CER
> 5,000

500 t/day municipality
waste

Potential Energy
Output in 365 days
140 GWh / year

Potential yearly
Carbon Credits CER
> 110,000

** Estimates on an average calorific power of 3,500 kcal/t of waste*

The Itzamà opportunity

ITZAMA' OFFERS:

- ✓ Feasibility Study / Business Planning Consultancy
- ✓ Setup of a carbon neutral gasification plant
- ✓ CDM Project Development
- ✓ Brokering of the CERs credits in the Carbon Marketing

The Itzamà opportunity

ANY QUESTIONS?

**THANK YOU FOR YOUR
ATTENTION**