



# ANKUR Gasification Technology

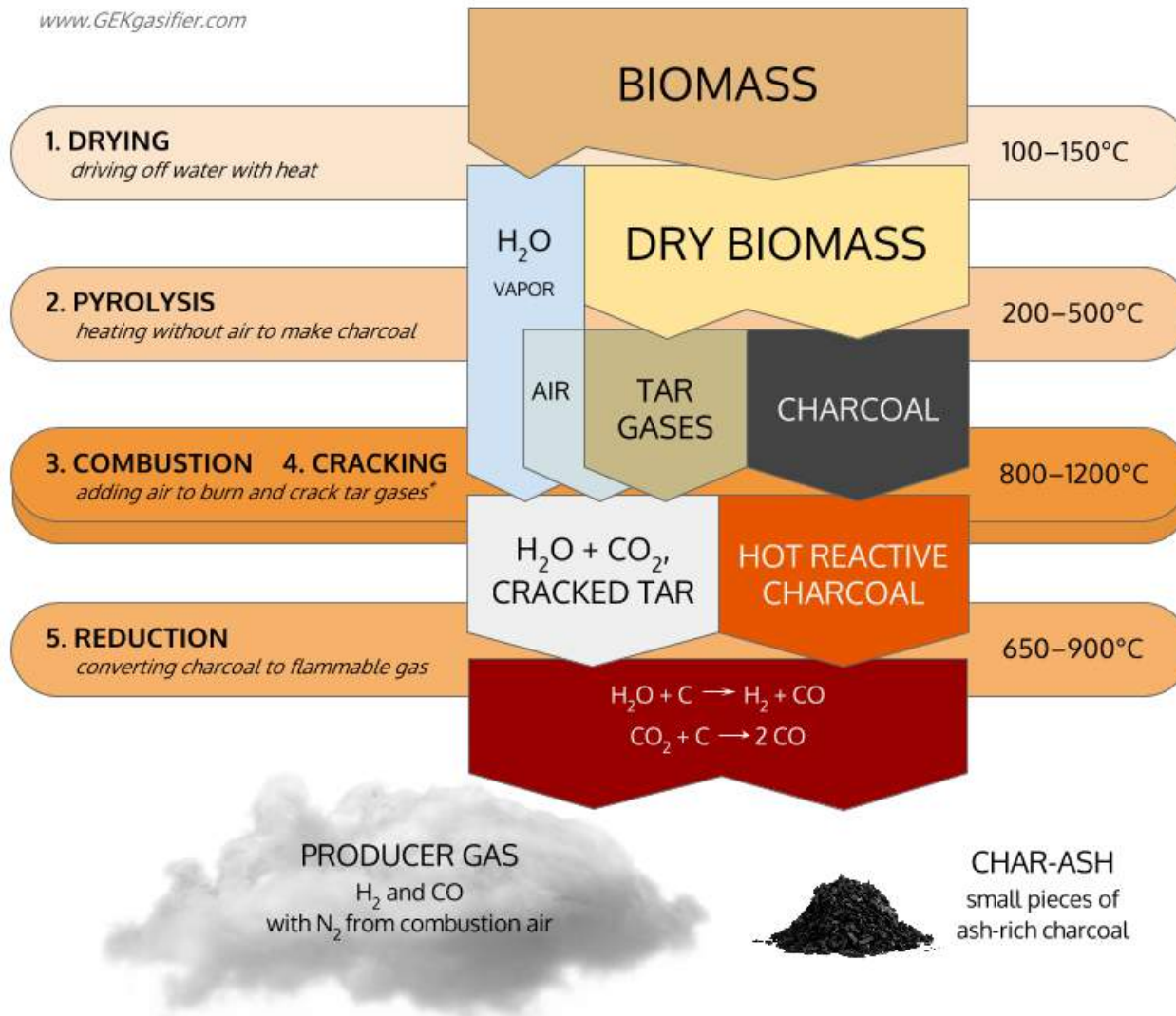
Solutions for the  
Environment & Energy





# The Five Processes of Gasification

ALL Power Labs  
[www.GEKgasifier.com](http://www.GEKgasifier.com)



\* tar cracking is the breakdown of tar into H<sub>2</sub>, CO, and other flammable gases by exposure to high temperatures.

# Chemical Composition of Synthetic Gas

CO: 20 +/- 2%

H<sub>2</sub>: 20 +/- 2%

CH<sub>4</sub>: 3 +/- 1%

CO<sub>2</sub>: 12 +/- 2%

O<sub>2</sub>: 0.1% (Max)

N<sub>2</sub>: All the rest

# Chemical Composition of the Engine Exhaust

O<sub>2</sub> : 2 to 3%

CO : < 200 ppm

CO<sub>2</sub> : 14 -15%

NO<sub>x</sub> : 25 to 40 ppm

H<sub>2</sub>O (Water Vapour) : 10% to 12%

Nitrogen : 72-75%

# Inland Areas

## Raw Material Input:

Coconut Husk, Shell,  
Leaves, Frond, Coco  
Lumber

Corn Cob, Stovers

Rice Hulls, Straw

Wood Chips, Saw  
Dust, Trimmings



**INDUSTRIAL  
HEATING**



**Electricity**



**Fertilizer**





# Farms

## Raw Material Input:

Coconut Husk, Shell,  
Leaves, Frond

Napier Grass

Forest Thinnings

Chicken, Hog Manure

Agricultural Waste



**Cooking Gas**



**Electricity**



**Fertilizer**



# Islands

## Raw Material Input:

Coconut Husk, Shell,  
Leaves, Frond

Bana Grass

Ipi-Ipil Trimmings

Bamboo

Elephant Grass



**Cooking Gas**



**Electricity**



**Fertilizer**



# Industrial

**Raw Material  
Input:**

Municipal Garbage

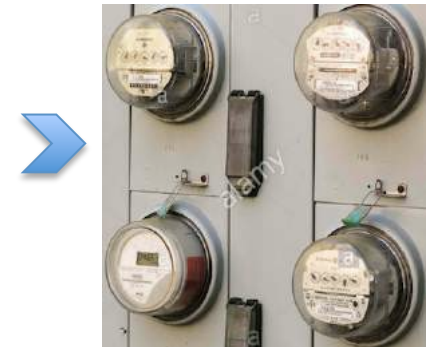
Sewer Sludge

Coal

Industrial Waste



Electricity



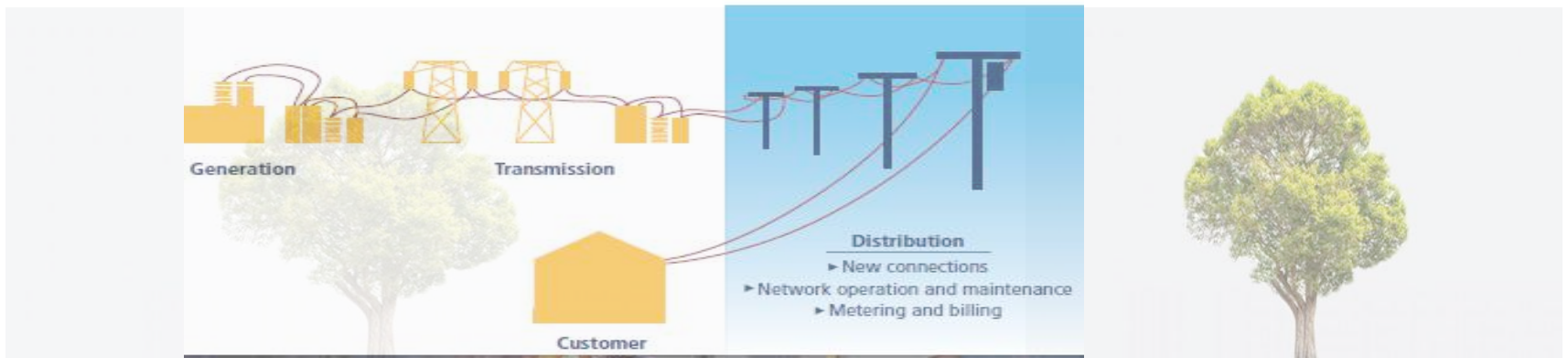


# Let's go forward

Clean up the waste from the environment.



Produce clean energy



Thank you.

