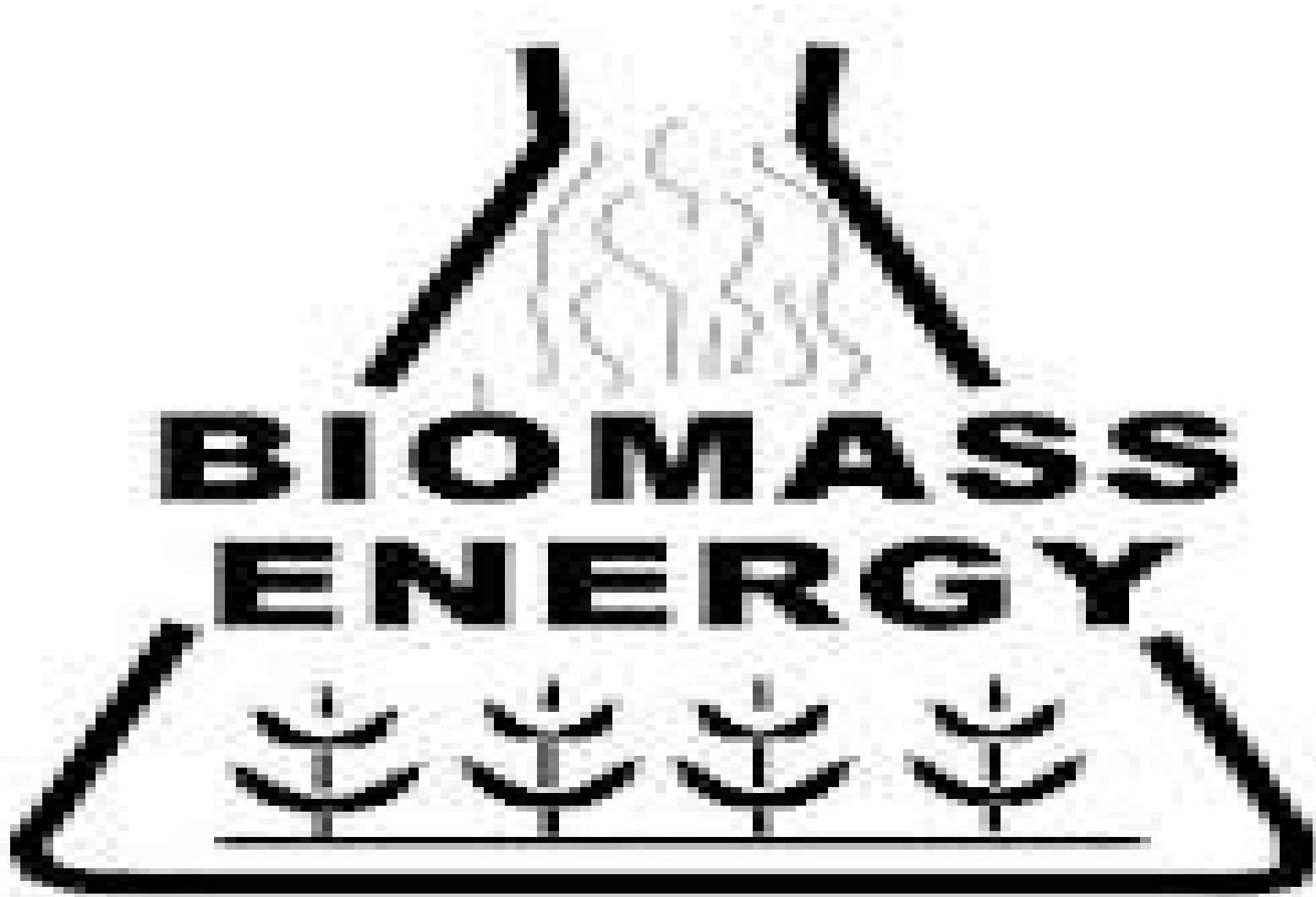


Energy from organic materials

A cura di: Lucia Scuteri



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Wood was once our main fuel.

We burned it to heat our homes and cook our food.

Wood still provides a small percentage of the energy we use.



Sugar cane is grown in some areas,
and can be fermented to make
alcohol, which can be burned to
generate power.



Other solid wastes, can be burned to provide heat, or used to make steam for a power station.



**"Bioconversion" uses
rubbish, animal manure, woodchips,
seaweed, corn stalks and other
wastes.**



How it works

For a biomass power station making electricity, it's like a fossil fuel power station:

For other biofuels, we may burn it to get the heat for our home, or burn it to get energy for a car engine.



Types of Biomass



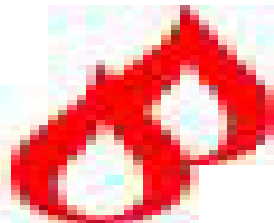
Wood



Crops



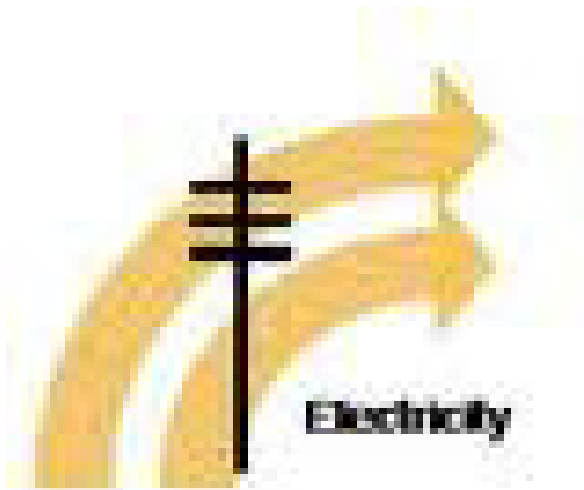
Garbage



Landfill Gas



Alcohol Fuels

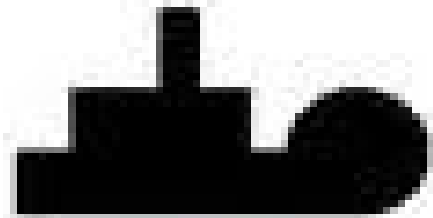


Electricity

CO₂



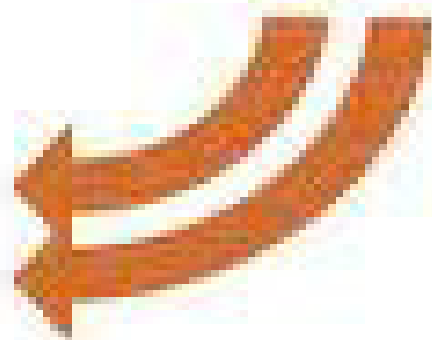
Wood Waste



Power Plant



Truck Transport



BIOMASS FUEL CYCLE

solar energy

Electricity

Biomass Processing

Fuel

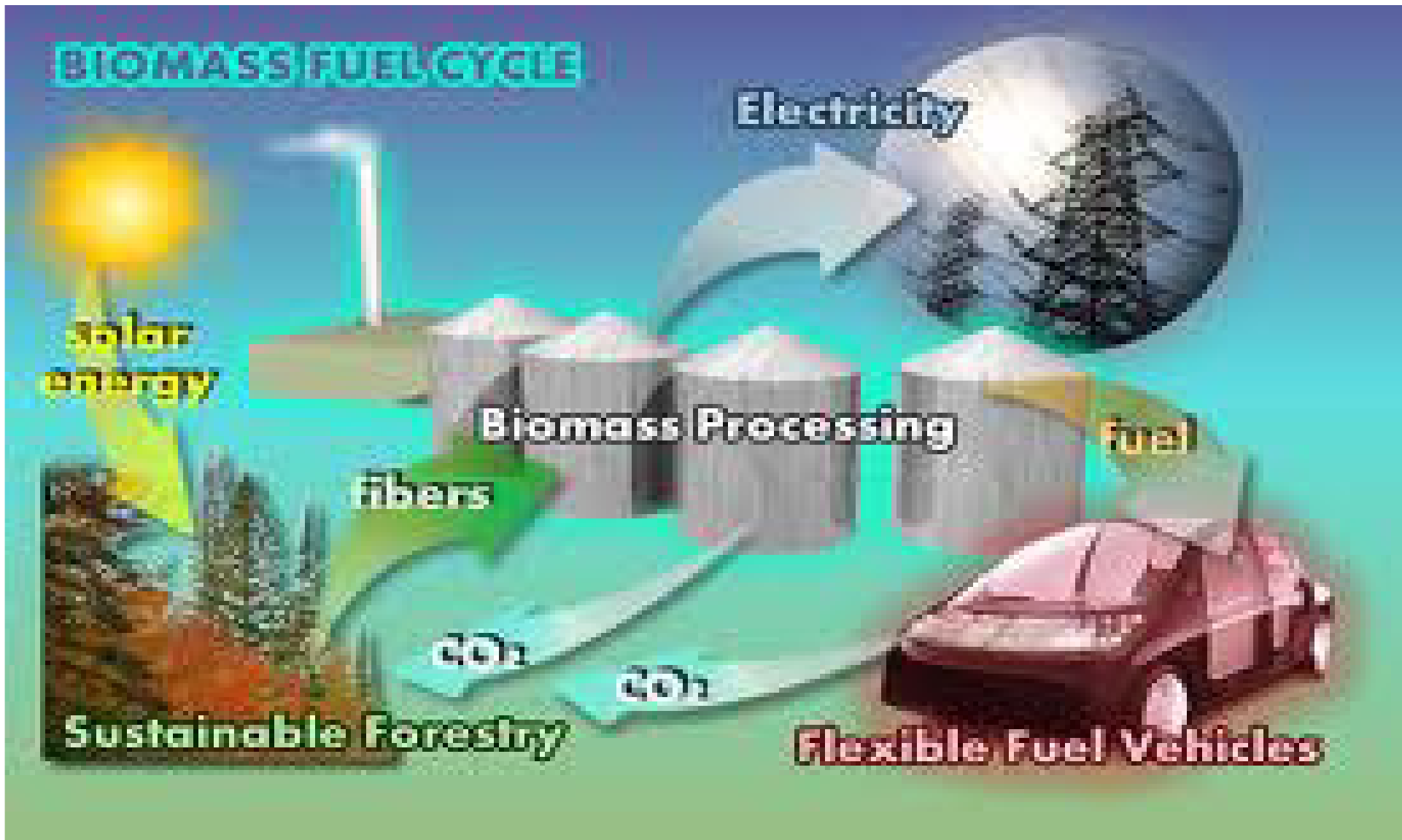
Fibers

CO₂

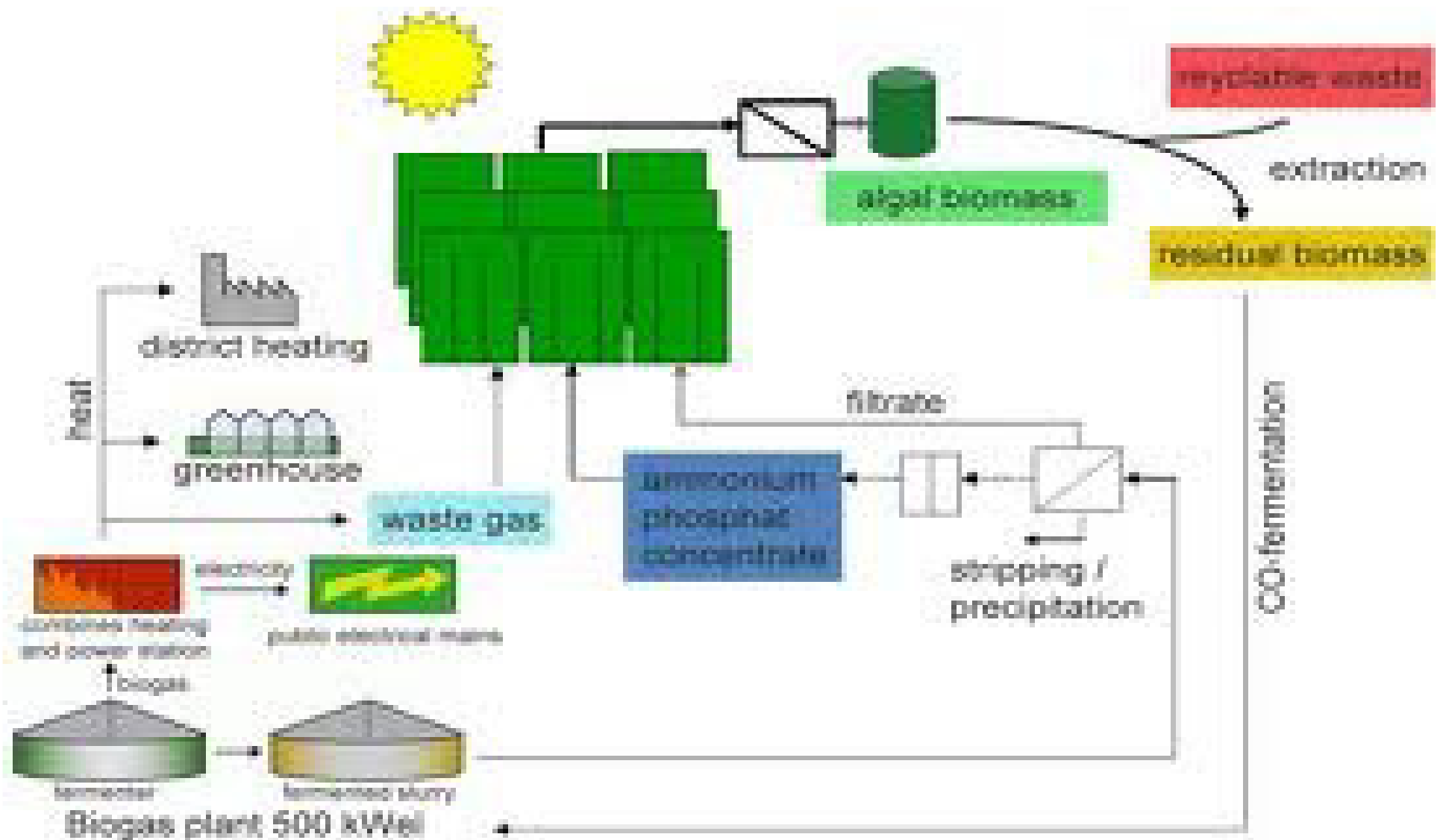
CO₂

Sustainable Forestry

Flexible Fuel Vehicles



BIOMASS energy






**FORESTRY
CROPS & RESIDUES**



**AGRICULTURAL
CROPS & RESIDUES**



SEWAGE



**biomass
sources**



**INDUSTRIAL
RESIDUES**



**ANIMAL
RESIDUES**



**MUNICIPAL
SOLID
WASTE**

Advantages

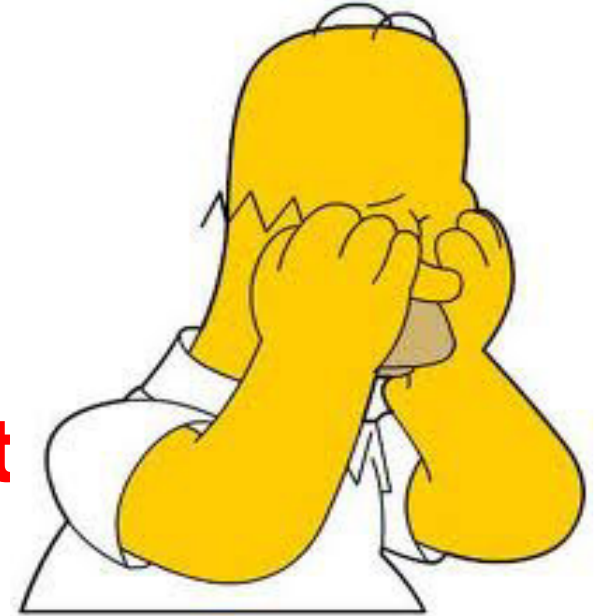


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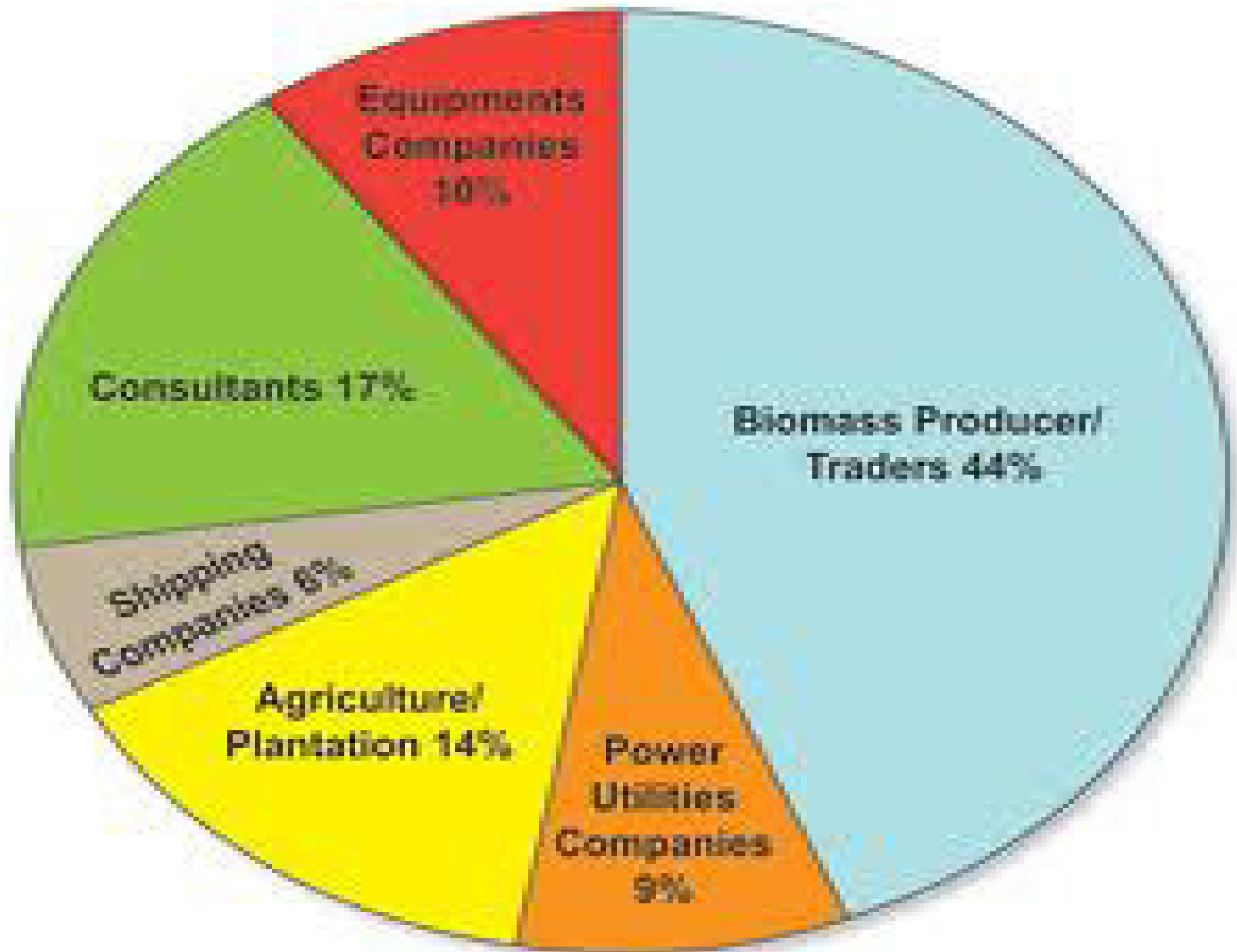
- Biomass is renewable
- It makes sense to use waste materials where we can.
 - The fuel tends to be cheap.
 - Less demand on the fossil fuels.

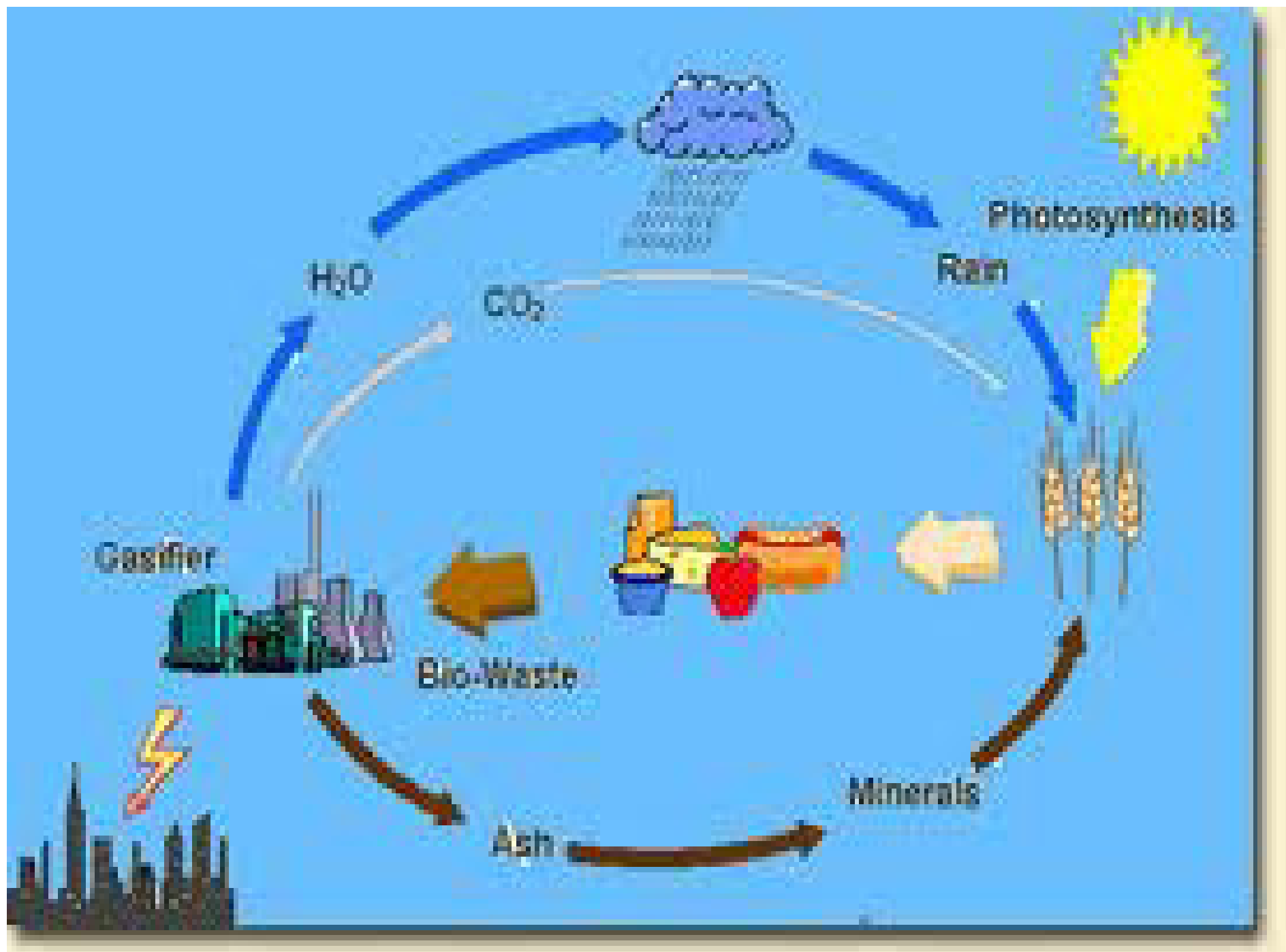
Disadvantages

-Collecting or growing the fuel in sufficient quantities can be difficult



- **We burn the biofuel, so it makes greenhouse gases just like fossil fuels do.**
- **Some waste materials are not available all year round.**

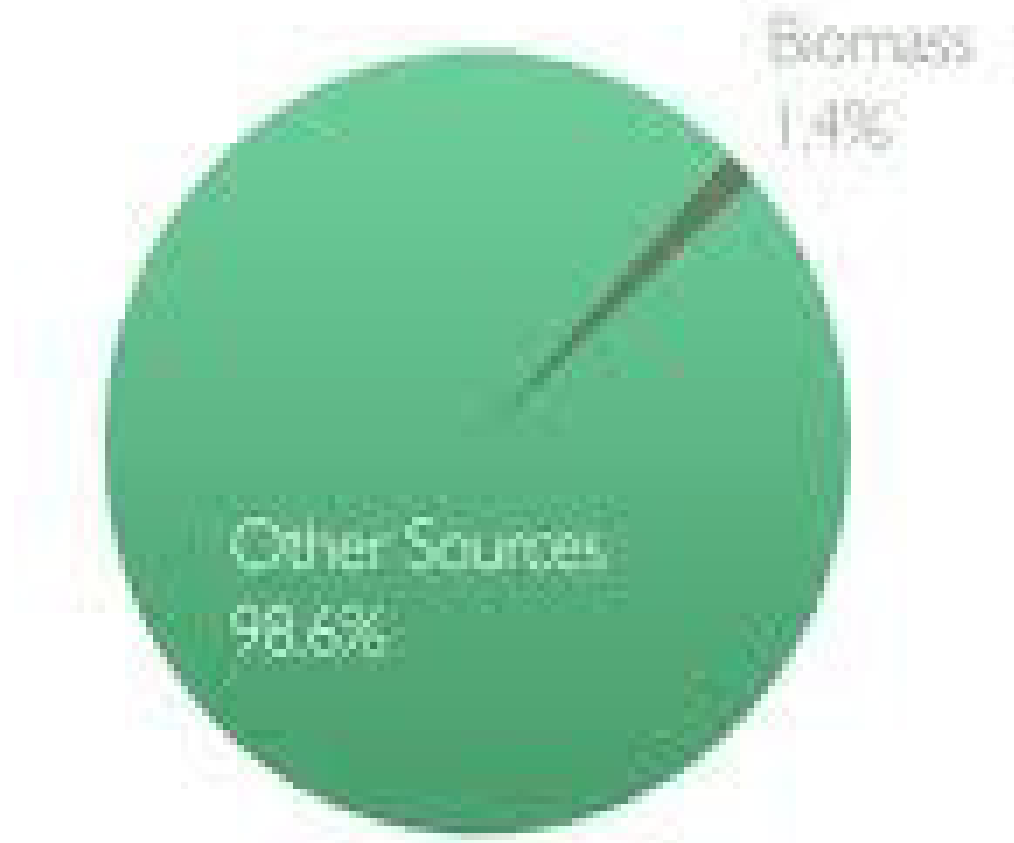




BIOMASS

PERCENT OF TOTAL ELECTRIC ENERGY CONSUMPTION

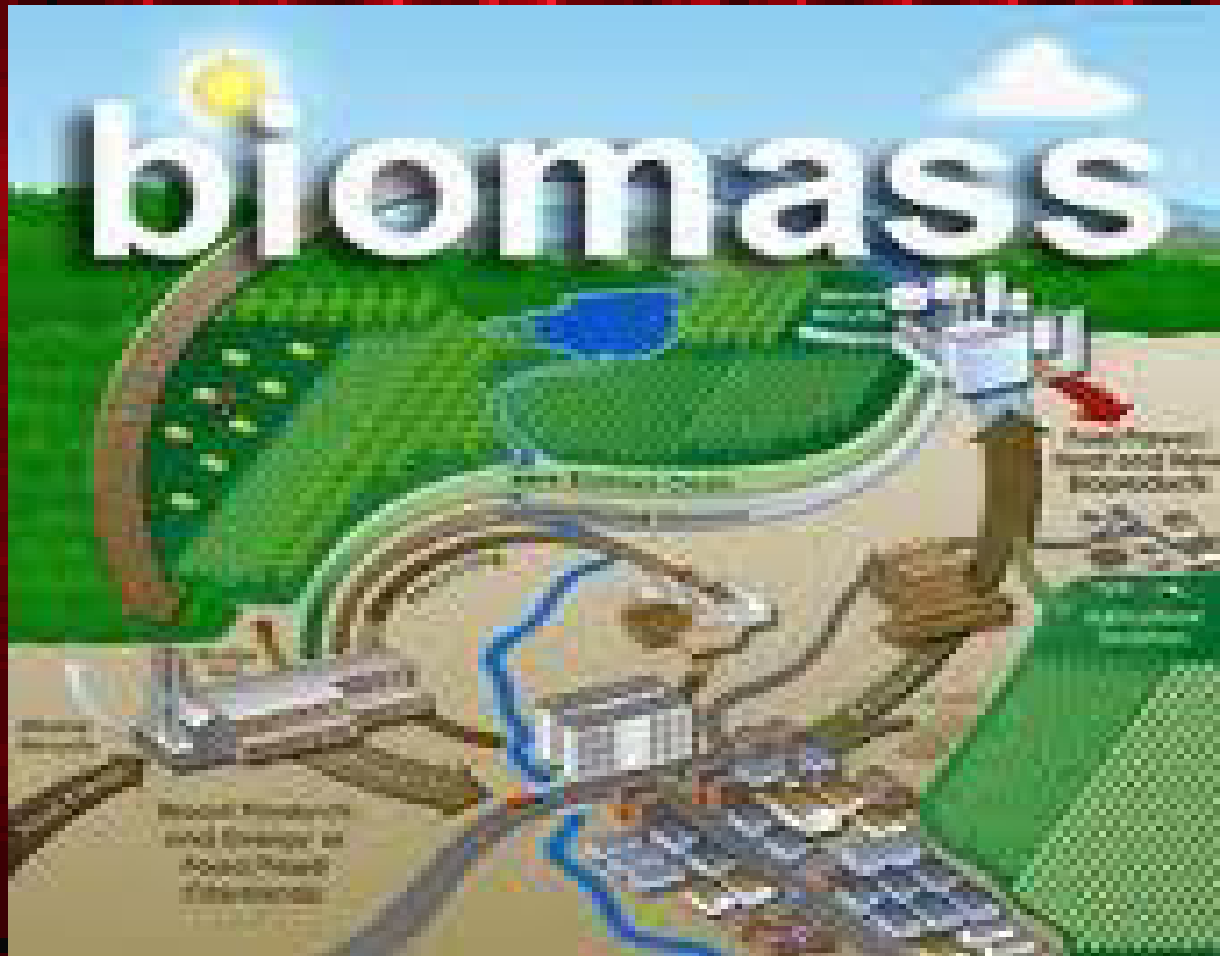
Electricity generated by biomass in the United States as a percent of total electricity generated in the United States



What a pity!!!!!!



The end



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