

## SUGARCANE: NEW SOURCE OF ELECTRICITY

### SYNOPSIS

As per the law of conservation of energy i.e. energy can neither be created nor destroyed - only converted from one form of energy to another. With the use of sugarcane baggase which is abundantly available in rural areas and is produced as a bio waste of sugarcane farming. With the proper reuse of this bio-waste, the basic need of rural areas of electricity can be resolved.

Now we can understand the process of conversion of one form of energy to another form of energy.

After burning of sugarcane bagasse on high temperature and pressure inside boilers generates the steam, this steam further expanded in turbine and by using thermoelectric semiconductors this heat is transferred from hot side to cool side of semiconductors. Further these steam turbine converts the heat energy of steam into mechanical energy. The generator then converts the mechanical energy into electric power.

This is the new innovative way of generating bio electricity.

There are various benefits of Bioelectricity:

- Cost effective way of electricity generation.
- Eco – friendly
- Raw material is abundantly available.
- Generation yield is 8 times more than that of input of baggase.

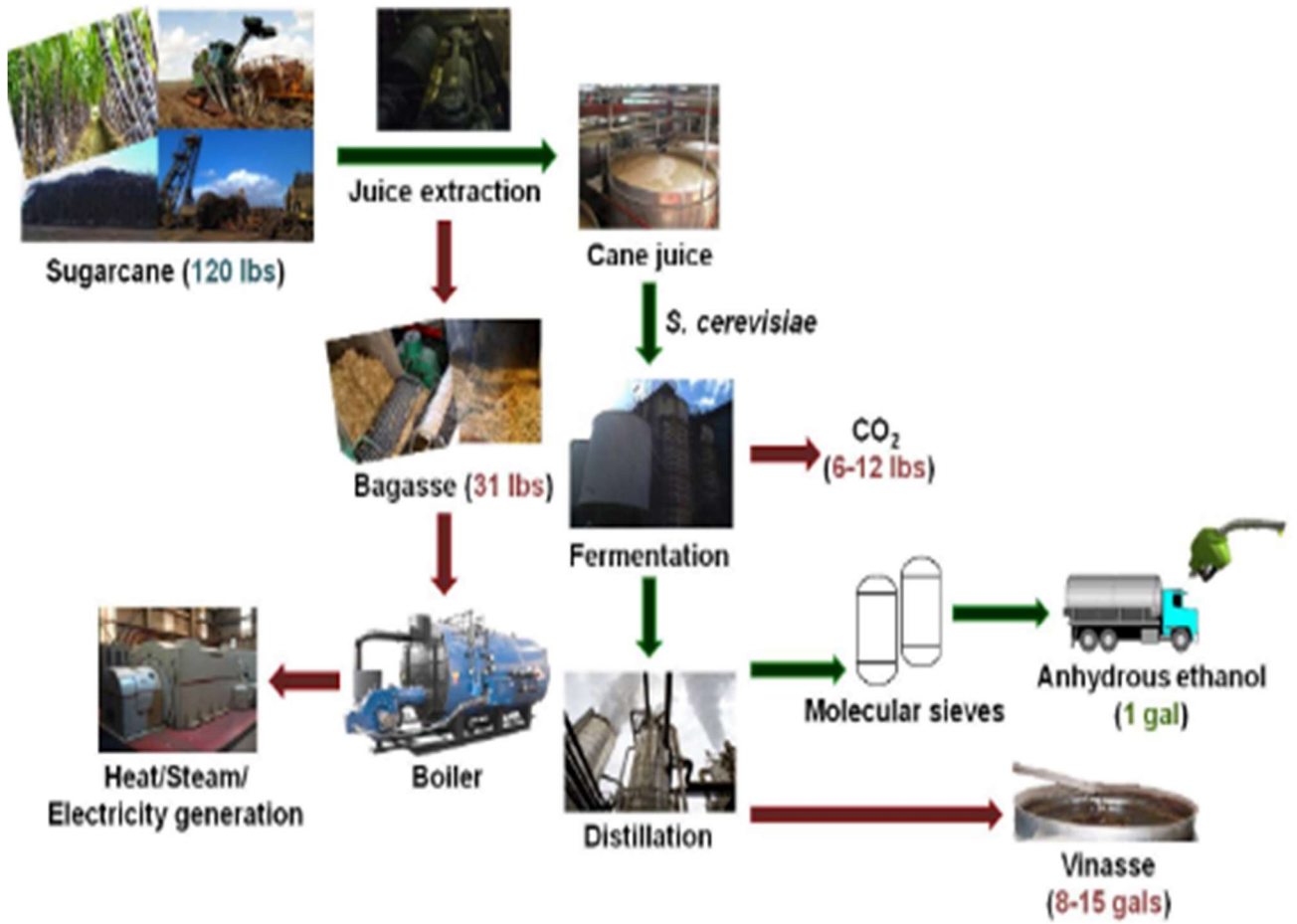
THANK YOU.

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## Flow Chart



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