

Lignocellulosic biomass

Autohydrolysis pretreatment of
lignocellulosic biomass



Photo: Apolo Salvador



Embrapa
Agroenergy



Autohydrolysis pretreatment of lignocellulosic biomass

Raw material

Sugarcane bagasse

Process

Autohydrolysis

End product

Hemicellulose and
cellulignin

A process of pretreatment and fractionation of lignocellulosic biomass by the use of water at high temperatures and pressures, to remove hemicellulose with little degradation of cellulose.

Applications

- + Production of ethanol and bioproducts from the fractionation of sugarcane bagasse (hemicellulose, cellulose and lignin).

Advantages

- + No use of chemical reagents.
- + Low degradation of the macromolecules constituting the biomass.
- + Possibility of water reuse.

Stage ► TRL/MRL 3 - Lab scale

Take this
technology
to another
stage



Research
with us
for other
potential
uses



Make this
technology
the basis
of your
incubated
company

Person in charge: **FELIPE BRANDÃO DE PAIVA CARVALHO**

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