Sugar cane

SHREDDING MILLING → CLARIFIC. → FLASH TANK → FERMENT. 1G+2G → YEAST SEPAR. → YEAST ACID WASH

WARM WASH

BAGASSE HANDLING

PRE-TREATMENT → Solid/Liquid SEPARATION → ENZYMATIC HYDROLYSIS → Solid/Liquid SEPARATION

Solid residues

Biogas

ANAEROBIC DIGESTION

STEAM TURBINE

Solid/Liquid SEPARATION

DRIYING

ENZYMATIC HYDROLYSIS

Solid residues

Flash tank

1G+2G

YEAST WASH

DISTILLATION 1G+2G

Ethanol 1G+2G

Vinasse

Hexose-rich

Pentose-rich

Enzymatic hydrolysis

Solid/liquid separation

Flash tank

1G+2G

Fermentation

Yeasts separation

Yeast wash

Distillation

Ethanol

Vinasse

Biogas

Steam turbine