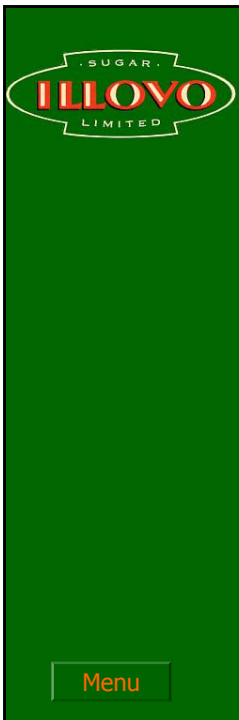


Bagasse Utilization at Illovo Sugar, Sezela Mill

LAMNET Joint Workshop, South Africa
19 to 21 August 2002



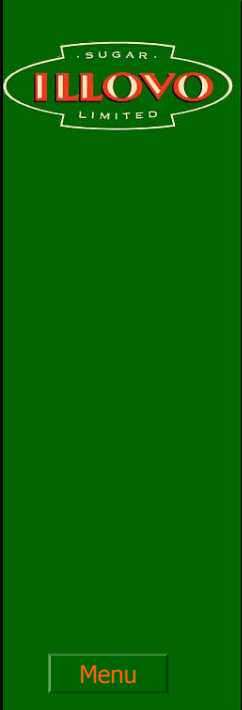
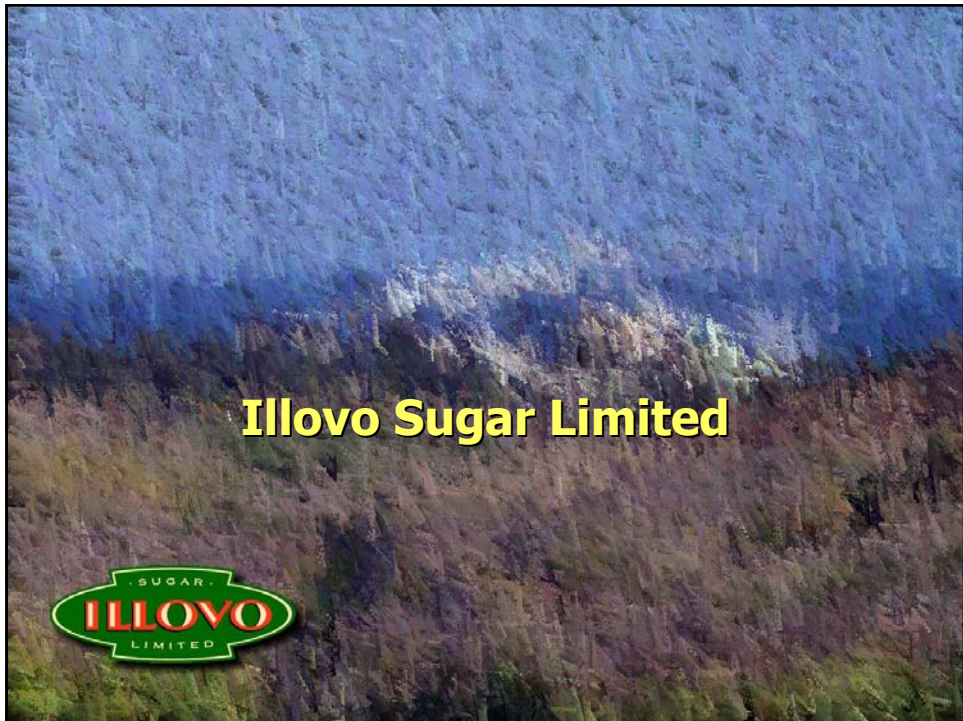
Presented by Gavin Dalgleish
Manufacturing Manager
Illovo Sugar, Merebank



Bagasse Utilization at Illovo Sugar, Sezela


- Illovo Sugar Limited
- Illovo Sugar Downstream Products
- Illovo Sugar, Sezela
- Furfural Production
- Furfuryl Alcohol Production





Illovo Sugar Limited

- Africa's leading sugar producer
- A significant manufacturer of downstream products
- Agricultural, manufacturing and other interests in:
 - South Africa
 - Malawi
 - Swaziland
 - Zambia
 - Tanzania
 - Mozambique



Menu

The slide features a green vertical bar on the left containing the Illovo Sugar Limited logo. The main content area is light yellow with a green header containing the company name. A bulleted list describes the company's role and interests. A small image of a sugar bag is in the bottom right, and a "Menu" button is in the bottom left of the green bar.



ILLOVO
SUGAR LIMITED

Menu

Monitor Sugar Company

Illovo Sugar Limited produces sugar from beet at the Monitor Sugar Company in Michigan





Excerpt from Strategic Intent

- To be the leading sugar and downstream products operation in Africa, an increasing global player, and a world class organisation.
- To optimise the return on every stick of cane by adding value to its core commodity products - fibre, sugar and molasses. It will focus on its core business and develop material niche operations which add value.



Menu



Downstream Products



- syrup
- furfural
- furfuryl alcohol
- diacetyl
- acetoin
- 2,3-pentanedione
- ethyl alcohol
- lactulose
- dextran
- electricity

Menu



Sezela - Sugar Mill and Downstream Products





Menu

Sezela Sugar Mill

- Illovo Sugars largest mill
- 500 tons per hour crush rate
- 2,500,000 tons of cane p.a.
- 280,000 tons of raw sugar p.a.



. SUGAR .
ILLOVO
LIMITED



Menu

Downstream Factory



. SUGAR .
ILLOVO
LIMITED



Menu

Downstream Factory

Bagasse

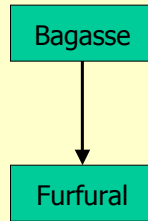


**. SUGAR .
ILLOVO
LIMITED**



Menu

Downstream Factory

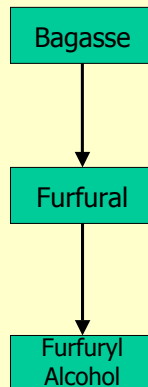


**. SUGAR .
ILLOVO
LIMITED**



Menu

Downstream Factory

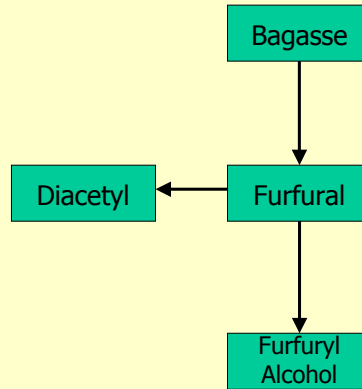







Menu

Downstream Factory

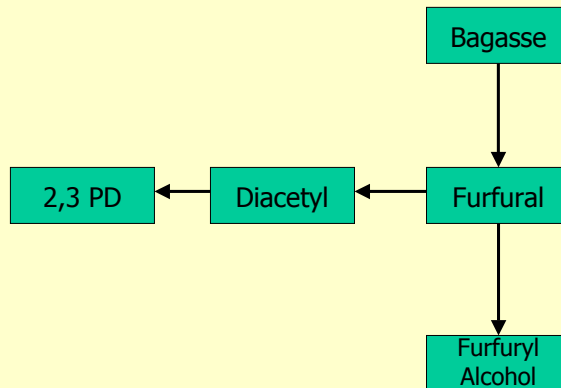






Menu

Downstream Factory

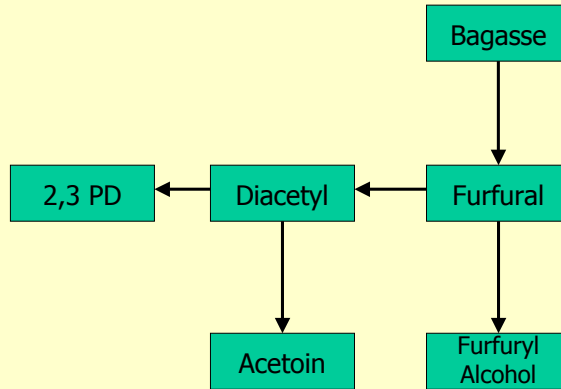


SUGAR
ILLOVO
LIMITED



Menu

Downstream Factory



SUGAR
ILLOVO
LIMITED



Menu

Downstream Factory

- 20,000 tpa Furfural
- 12,000 tpa Furfuryl Alcohol
- 120 tpa Diacetyl
- 10 tpa Acetoin
- 500 kg pa 2,3 Pentanedione




A presentation slide with a green vertical sidebar on the left and a light yellow main area. The sidebar contains the Illovo Limited logo at the top and a "Menu" button at the bottom. The main area features the title "Furfural Production" in green text, underlined with a thin orange line. In the bottom right corner, there is a small image of a white sugar bag with the Illovo logo and the word "SUGAR" printed on it.

ILLOVO
LIMITED

Furfural Production

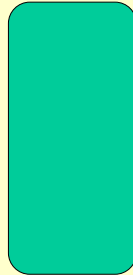
Menu



ILLOVO
LIMITED
SUGAR
WHITE



Furfural Production



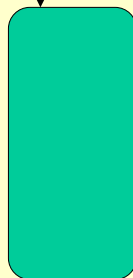
Reactor

Menu



Furfural Production

Bagasse



Reactor



Menu

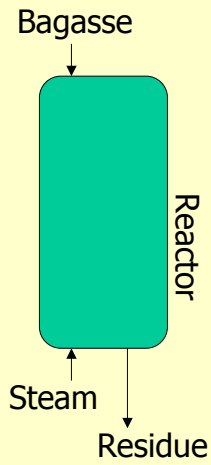


SUGAR
ILLOVO
LIMITED



Menu

Furfural Production

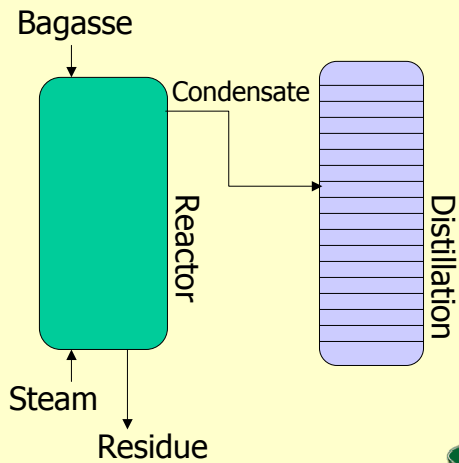


SUGAR
ILLOVO
LIMITED



Menu

Furfural Production

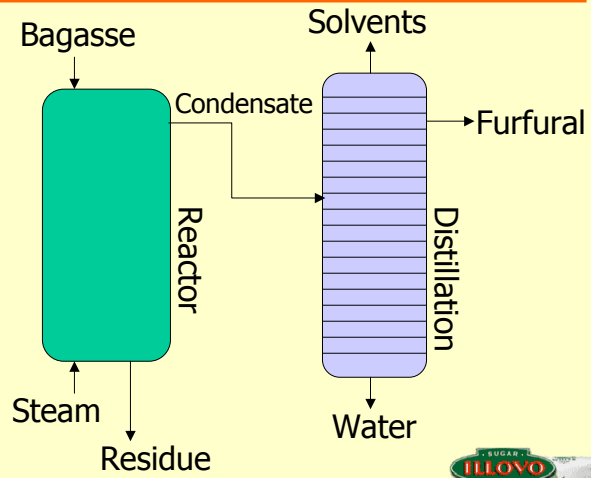


ILLOVO
LIMITED



Menu

Furfural Production



ILLOVO
LIMITED

Menu

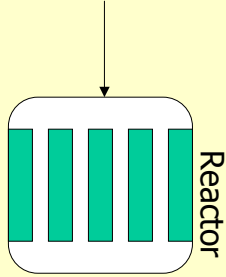
Furfuryl Alcohol Production





Furfuryl Alcohol Production

Furfural



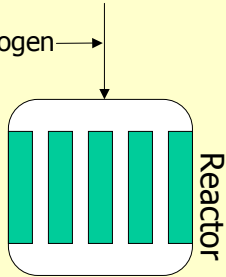
Menu



Furfuryl Alcohol Production

Furfural

Hydrogen

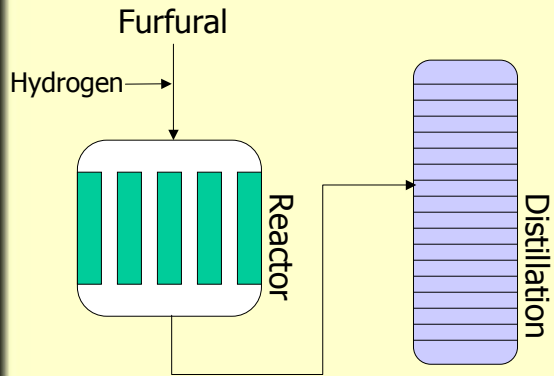


Menu





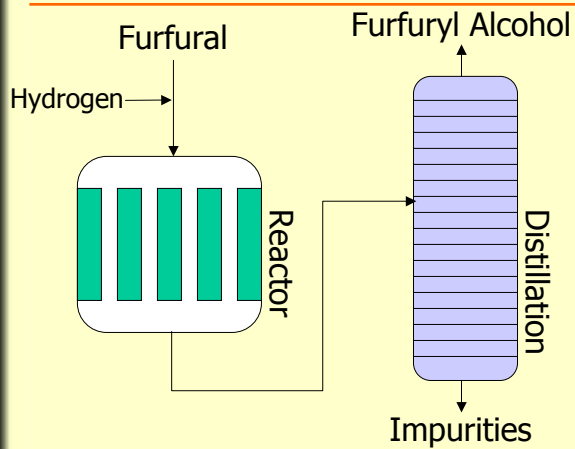
Furfuryl Alcohol Production



Menu



Furfuryl Alcohol Production



Menu





Furfural and Furfuryl Alcohol

- [Illovo Sugar Limited](#)
- [Illovo Sugar Downstream Products](#)
- [Production of Furfural and Furfuryl Alcohol](#)
- [Furfural Market](#)
- [Furfuryl Alcohol Market](#)
- [Conclusions](#)



Menu



Photo Gallery



Menu



Figures and Tables

- FF production PFD
- FA production PFD
- FF Operating Plants table
- Corn Cobs vs Bagasse table

Menu





Graphs

- FF Applications – pie
- FA Applications – pie
- FF Sales/Prodn/Capacity – bar
- FA Sales/Prodn/Capacity – bar
- FF and FA price - trend

Menu











