“An overview of Omnicane’s Integrated Industrial Cane Cluster. A sustainable model based on the circular economy approach”
Outline

- About Omnicane
- Challenges of the Mauritian Sugar Industry
- La Baraque Integrated Cane Cluster
- Impacts of the Circularity Approach
- Way forward
About Omnicane
Omnicane at a Glance

- Incorporated since 1926 as MTMD
- Rebranded as Omnicane in 2009
- 2,200 shareholders
- Listed on the SEM & SEMSI
- 1,500 employees
Our Shared Vision

Vision:
To be a leading force in sustainable development through constant innovation

Mission:
We strive to make the utmost sustainable use of resources at our disposal, for the benefit of all

Values:
Responsibility, Innovation, Integrity, Sustainability, Efficiency
Our Sustainability Engagement

We consciously operate for the benefit of **people**, **planet** and **prosperity** by:

- Engaging **constructively** with our stakeholders
- Developing our **collective eco-consciousness** to promote cleaner production
- Embracing sound business models to develop **resilience** and achieve **long term growth**
Regional Expansion Projects

Kenya: Setting up and part management of a sugarcane cluster in Kwale

Rwanda: Construction and operation of a 5.5 MW Hydroelectric Power plant
Challenges of the Mauritian Sugar Industry
Sugar Industry’s Main Challenges

- Open market - Direct competition with other sugar producing countries
- Growing scarcity of resources (Sugarcane, Labour)
- Stricter environmental legislation
- Increasing Client/Customer need for sustainable products
1. Reducing costs:
   • Centralisation of milling operations
   • Voluntary/ early retirement
   • Grouping of small planters for block farming

2. Adding value:
   • Cogeneration of electricity
   • Refined sugar
   • Bioethanol / Concentrated Molasses Stillage (CMS) as fertilizer
La Baraque Integrated Cane Cluster
Centralization of Milling Operations to La Baraque

- **ROSE BELLE**: 170,000 t, Closed 2002
- **RICHE EN EAU**: 290,000 t, Closed 2006
- **SAVANNAH**: 290,000 t
- **BRITANNIA**: 180,000 t, Closed 2003
- **MON TRESOR**: 270,000 t, Closed 2006
- **UNION ST AUBIN**: 300,000 t, Closed 2010 (includes Bel Ombre & St Felix)
- **UPGRADED LA BARAQUE FACTORY**
  - Capacity: 1,500,000 tons
Our Fully Integrated Flexi-Factory Complex
Our Industrial Ecosystem

- CANE
  - Milling
    - Raw Sugar
      - Refinery
        - Steam & Electricity
      - Molasses
      - Bagasse
    - Electricity
  - Steam

- Bioethanol Distillery
  - Steam
  - Biogas
  - Vinasse
  - Steam & Electricity
  - Electricity
  - Food Grade CO₂

- COGENERATION POWERPLANT
  - Electricity
  - Steam
  - Coal Fly & Bottom Ash
  - Construction/Building Industry
  - Cement Additive

- Coal
- Electricity For National Grid

- CMS Bio-Fertilisers
- Bio-Ethanol
Industrial Cluster Roadmap 2007 - 2017

Creation of 700 new jobs

Total Investment: Rs 10.9 Bn

2007
Expansion and Modernization of La Baraque Sugar Mill

2007
La Baraque Power Plant

2007
Bioethanol Distillery

2014

2009
Setting up of new refinery

2017
Carbon Burn-Out

Creation of 700 new jobs

Total Investment: Rs 10.9 Bn
Adoption of Key ESG Standards
Impacts of Circularity Approach on Key SDGs

7 Affordable and Clean Energy
8 Decent Work and Economic Growth
12 Responsible Consumption and Production
13 Climate Action
17 Partnerships for the Goals
9 Industry, Innovation and Infrastructure
The Way Forward

• **Energy Transition**
  • Explore Renewable Energy alternatives to coal (Cane trash, woody biomass, biogas, Refuse Derived Fuel)

• **Energy Efficiency**
  • Further optimization of sugar and ethanol manufacturing processes

• **Product Innovation**
  • Develop new products through R&D and attract new customers
Thank you for your attention