

Vision

To grow the long-term profitability and sustainability of the South African cane growing sector.

Mission

To play a leading role in growing sugarcane and other diversification opportunities for cane growers through innovation, research, specialized services and products.

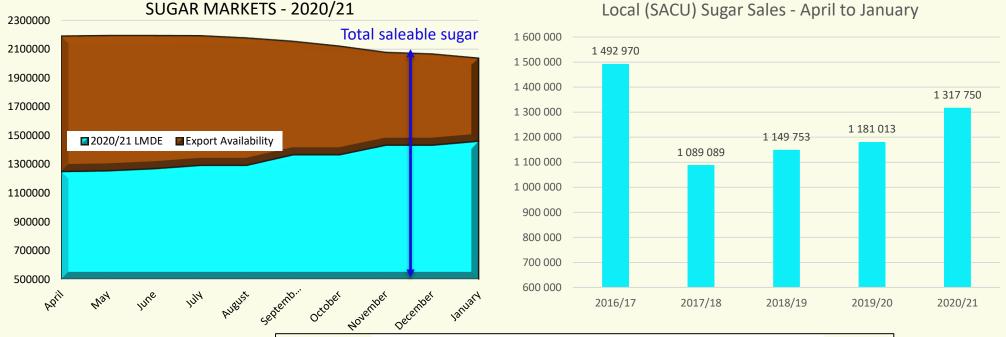




Contribution to the South African Economy

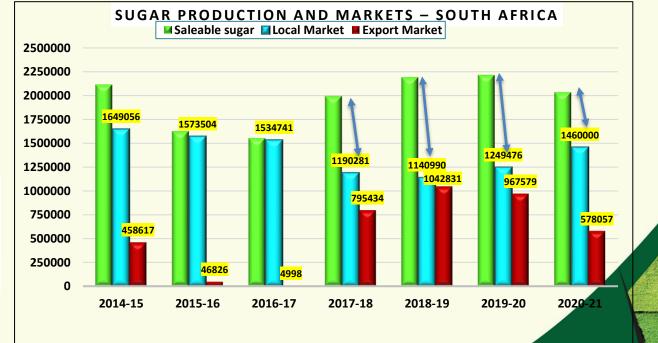
Dependent Rural Livelihoods	1 million
Direct Jobs	75 350
Indirect Employment	350 000
Gross Industry Revenue	R 14 billion
Annual Sugar Production	2.1 million tons
Annual Cane Production	19.8 million tons
Hectares under cane	362 000
Support to Domestic Value Chain	R 400 million p.a





The sugar production dilemma





Master Plan Structure & Task Teams

EXECUTIVE OVERSIGHT COMMITTEE – Chaired by Ministers Patel & Didiza

Project Management Office – housed by DTIC

Task Teams







JOB RETENTION & MITIGATION



SSG MASTER PLAN



TRANSFORMATION



CROP DIVERSIFICATION



SUGARCANE-BASED VALUE CHAIN DIVERSIFICATION STRATEGY



PRODUCT TAX POLICY

Competition Commission Exemption

Sugar Industry Master Plan

- TASK TEAM 6: Sugarcane-based value chain diversification strategy
- Develop strategies and plans for feasible opportunities to build globally competitive value chains.
 - Bioethanol for fuel blending (subject to viable economic model)
 - Bio Jet Fuel
 - Portable, industrial and pharmaceutical-grade bioethanol
 - Biomass/co-generated electricity
 - Biogas
 - ➤ No- and low-calorie sweeteners
 - Various platform and specialty chemicals and bio-based polymers
- Task Team compiled of 15 industry stakeholders from government, sugar industry, labour and academia.



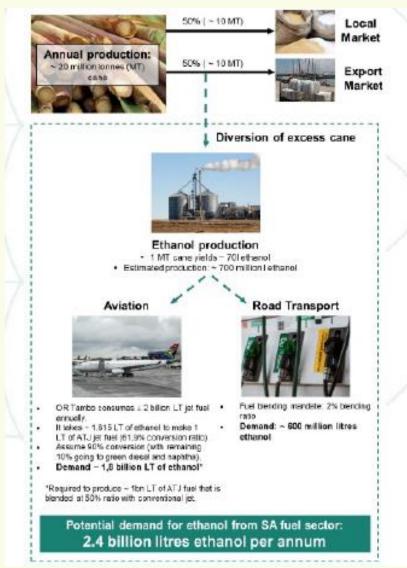
Bio Jet Fuel – Opportunity waiting in the wings

Sustainable Aviation Fuels (SAF) are low-carbon fuel alternatives for the aviation industry. These non-petroleum-based drop-in aviation fuels are generally produced from **bio-based feedstocks** including waste, residues and end-of-life products.

New technologies are being developed to produce SAF from non-biogenic resources such as **renewable carbon** (e.g. CO recovered from industrial gases, carbon capture) and **hydrogen** (e.g. green hydrogen derived from electrolysis powered by renewable energy)



Bio Jet Fuel – Opportunity waiting in the wings





Key messages

- Virtually the entire production of SA ethanol could be used for SAF production locally
- Unlike biofuels for SA road transport, SAF is a premium, international market driven by demand and incentives
- Currently, SAF demand far outstrips supply

Biogas – Opportunities

The biogas option provides the best value proposition for the diversification of the sugar industry adding value to waste (both sugar and ethanol)

- Biogas potentially offers a flexible green power generation source which would have better value for grid complementing solar and wind, which should fetch higher value, which could justify efficiency improvement to plant to increase feedstock with bagasse.
- Biogas can provide a source of local gas for the IRP 2019, thus reducing dependency of imported gas with its associated price volatility (CSIR & UCT, 2019)
- On-farm Biogas solutions also exist with proof of concept on the North Coast.







Conclusions

- Jet Bio Fuel or Sustainable Aviation Fuels (SAF) a viable option the industry can get involved in at the moment.
- Ethanol for fuel needs subsidy to develop the industry
- Co-generation of electricity The increased cap to 100MW presents opportunities but cash constraints exist
- Biogas great value proposition both on-farm and at mill level.



