

Resources-Potentials

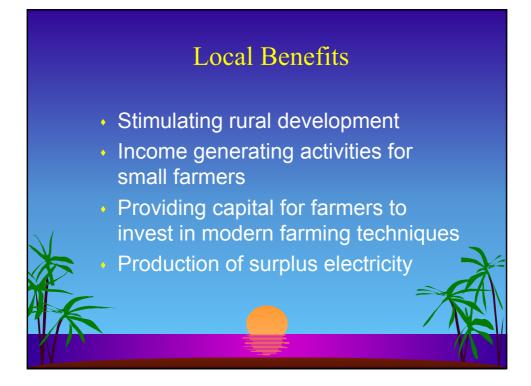
- Sugarcane is the most important agricultural resource of biomass
- It is a DC resource as its growth is limited to tropical/sub-tropical regions
- The development of bioenergy is still very small compared to the use of cane for sugar
- Cane is highly underutilised as bioenergy resource

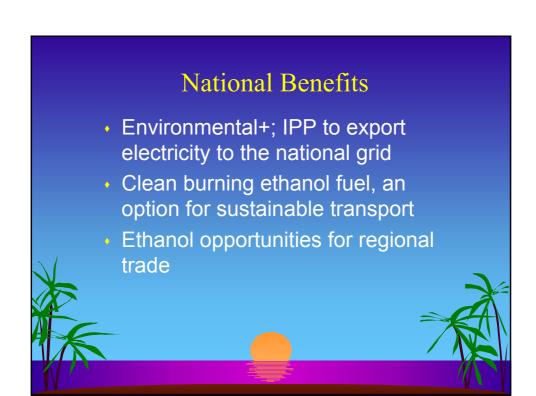


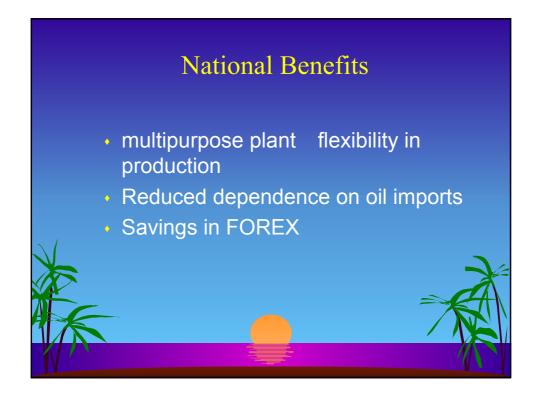
Resources-Potentials

- Cane resources to produce a variety of commercial products -market locally, regionally and internationally
- role of food, feed, fiber and energy producer.
- Most economically significant coproducts: ethanol and electricity
- Flexible production –sugar, ethanol and electricity









Regional Benefits

- At urban level, improving local air pollution (lead substitution/ethanol)
- Industrial Competitiveness. The emergence of new technologies to exploit cane residues has created new opportunities to diversify into renewable energy products and expand sugarcane use

Regional Benefits

- Enhancing trade opportunities
- Sugar factories facing competitive pressures: saturated demand, strong competition, international sugar mkt Diversification decreases risks posed by sugar price fluctuations



Global Benefits North –South Co-operation • Expanding the use of renewable energy source mainly in DC is appealing to international efforts to reduce carbon emissions • CDM opportunities • North-South technology transfers

Challenges

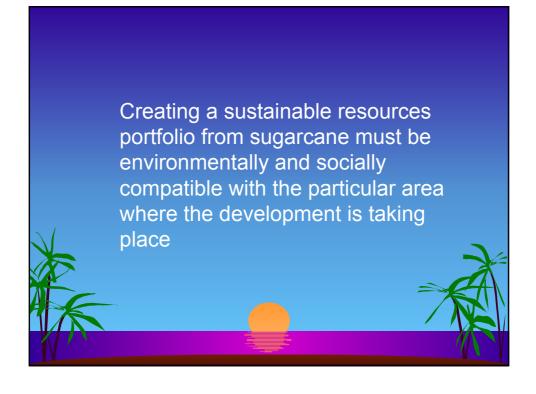
Socio-Environmental Side

- Energy crops fit into existing landuse systems
- Competition for land between energy and food
- Identification of suitable and available sites
 - Water a major constraint



- Local markets difficulties (accesibility) for distribution or transport of goods
- DC offer great opportunities for cheap land and labour Mechanisation offset rising wages





Different parts of the world have a different focus on co-products. The choice of the various products widely varies world wide, i.e.

India: cogeneration and particle

board

Brazil: Ethanol

Venezuela: Potable ethanol

Colombia: sugar

South Africa: Furfural

