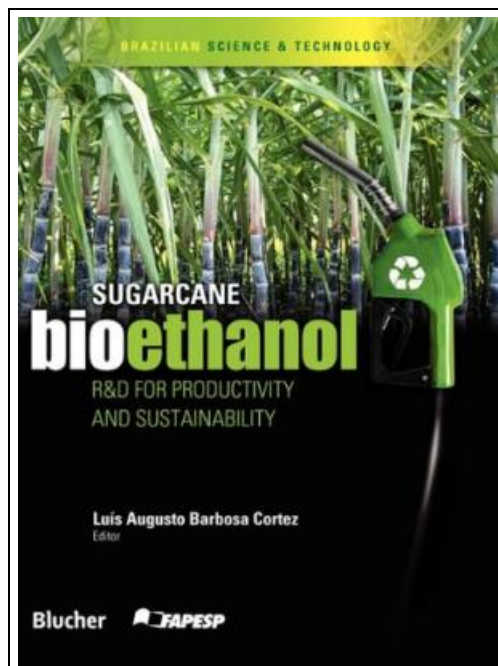


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## SUGARCANE BIOETHANOL - RD FOR PRODUCTIVITY AND SUSTAINABILITY (HARDBACK)



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Editora Edgard Blucher Ltda., 2010. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. In Brazil, sugarcane ethanol supplied, in 2009, 17.6 of the energy for land transportation (excluding railroads) and about 55 of the total energy supplied by liquid fuel for Otto cycle engines. Besides the lower production costs ethanol produced from sugarcane in Brazil has another important advantage: in Central-South Brazil only 1 unit of fossil energy is used for each 8-9 units of energy produced by ethanol from sugarcane. Carbon emissions reduction also benefits from sugarcane ethanol: for each cubic meter of ethanol used as fuel, there is net saving of around 2 t CO<sub>2</sub> not emitted to the atmosphere while, at the same time, no SO<sub>2</sub> is emitted. Sugarcane was introduced in Brazil in 1532. The Brazilian model of producing concomitantly sugar and ethanol, brought important technical benefits and made possible an outstanding increase in the competitiveness in the international market for sugar and ethanol. Today about 50 of the sucrose of sugarcane produced in the country is directed to the production of sugar while another half is used to produce Ethanol. Industrial and academic RD has helped to increase the productivity of ethanol steadily over the past 35 years, at a rate of 3.2 per year. Productivity gains implied savings of planted area by a factor of 2.6. In 2009/2010 the area planted with sugarcane for Ethanol production was 4.2 Mha, amounting to 1 of the total arable land available in Brazil. About 60 of the Ethanol produced in Brazil comes from the State of Sao Paulo, where the productivity is the highest (around 86 t/ha.year). Most of the recent expansion is happening in the center-west region of the country, in degraded pasture lands. The FAPESP Program for Research on Bioenergy,...



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