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Abstract

Sugarcane as an Energetic Crop for the Transformation of the Productive Matrix in Ecuador

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Abstract: The current transformation of the productive matrix in Ecuador implies the change from a pattern of raw material exports and extractive to one of diversified production, eco-efficient, and with higher added value, as well as services base on the knowledge economy and biodiversity. One of the main axles for this transformation is the Productive Diversification which includes: Biofuels, Mariculture, Forest and Strategic Industries. From here, the objective of this investigative work to establish that it is possible to produce biofuels (bioethanol), with processing plants based on energy crops (sugarcane) found in Ecuador, that not only produce food (sugar), but also material residue (bagasse) for cogeneration and other residue for fertilization processes.

In conclusion, once zoned and distributed along the country the new fields of energy crops and distillation plants for bioethanol; not only will a new agro-environmental culture will be begin, but the new era of biofuels will start, changing the productive matrix in Ecuador and the preparation for the post-oil era. Nevertheless, to keep the sustainability of this project, it is recommended to keep excess in the production of sugar cane in order to not alter the food chain.

Keywords: Biofuels, Bioethanol, Energy Crops, Sugarcane, Ecuador

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