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Carbon Neutralization of Sugarcane by Super Farm Model

Climate change and global warming are main global problems. Greenhouse gases are released from various human activities, including agricultural practices from open burning in the field. Sugarcane leaves combustion generated air pollution problem during dry season every year. This research aims at balancing carbon in sugarcane field to consider carbon released from sugarcane leaves burning and propose Super Farm Model to reduce global warming effect. Carbon neutralization was considered by considering input and output biomass in the sugarcane field. The field survey and interview were conducted to obtain agricultural practices. Fraction of burned biomass was analyzed from burned sugarcane production reported by Office of the Cane and Sugar Board. Carbon emission was analyzed by specific emission factor to the sugarcane leaves burning to consider global warming potential from sugarcane field. The alternative solution of global warming emission from open burning of sugarcane residues was proposed by Super Farm Model.

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