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UTILIZATION OF CORN INTO BIOFUEL WASTE CORM AND THE BASIC MATERIALS OF PAPER

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ABSTRACT: Human needs for fuel use is increasing from year to year. while availability is decreasing. One solution to this problem is by utilizing alternative energy from agricultural waste a lot owned by an agrarian country like Indonesia. Like, waste corn-cob. Riau province is one of the corn-producing province in Indonesia. Processing corn today is already very diverse as food, such as noodles, corn, flour, cereal, milk, and ration ingredients. Where is the automatic processing will generate waste corn cob. Viewed from the general content of corn cobs, which consists of lignin, cellulose and starch is the prospect of once developed in the manufacture of alternative energy and can be used in the manufacture of paper. Viewed from the general content of corn cobs, which consists of lignin, cellulose and starch is the prospect of once developed in the manufacture of alternative energy and can be used in the manufacture of paper. This effort is expected to be used as alternative new energy sources. From this problem the authors are interested in doing research on the utilization of corncob waste into raw materials for biofuels and paper. Step tests were performed using laboratory-scale treatment. By separating between a substrate such as starch, cellulose and lignin.

KEY WORDS: *utilization of corn-cob, biofuel, paper and basic materials*