

LINKAGE STUDIES AMONG THE NATIONAL SUGAR INDUSTRY ACTORS: A SYSTEM DYNAMICS MODEL APPROACH

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Abstract

Sugar is one of the basic food needs which is also defined as one of strategic commodities. In its growth, it is detected that the productivity of sugar cane farmers decreases while the consumption level increases. The increasing of consumption level causes government to import sugar. Beside of productivity, the long distribution chain can cause distribution distortion. To examine this issue, dynamics supply chain approach is used to define the linkages among system's actors. Moreover, dynamics supply chain approach is used due to macro and strategic characteristic of the object. The impact of scenarios or policies in the short, medium, and long term will be obtained through a simulation. Based on the result, the linkages of distribution actors can be seen on price and inventory of sugar. In addition, sugar's price dynamic often happen in retailer and influenced by the supply and inventory of sugar. From the scenario constructed, decreasing amount of import can be done by revitalization of sugar industry, reduction in import duties, and restriction on sugar crystal consumption by the industries.

Keywords: *national sugar industry, the linkage actors, the system dynamic*

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