

THE DEVELOPMENT OF THE ECO-INDUSTRIAL PARK CONCEPT IN GASING INDUSTRIAL ESTATE, BANYUASIN REGENCY, SOUTH SUMATRA

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Abstract

The objective of this research was to develop the concept of Eco-Industrial Park (EIP) which is applicable in Gasing Industrial Estate (GIE), Banyuasin Regency, South Sumatra. In order to achieve the objective, it required an evaluation of the current conditions in the GIE, namely: the general state of location, the social and community around the industrial area, and the existing industries; as well as the evaluation of the adequacy of GIE towards the development of EIP concept. The scope of the research aspects was synchronized with two important aspects for the development of the concept of EIP, namely fundamental principles of EIP and the conformity criteria of the EIP. The method used was a combination of qualitative and quantitative methods. Qualitative methods were used to analyze the current condition of the industrial area, to study the potential and quality of waste, to study the conformity of GIE towards the EIP concept, as well as the study of the pattern of inter-industry linkages.

On the other hand, Quantitative methods were used to obtain answers from the results of questionnaires with key informants for Prospective Analysis. The results of Gap Analysis showed that there are still many inadequacies of GIE to be a more environmentally oriented industrial area. Of the three indicators used by the conformity criteria of EIP, much improvement is still needed in order to utterly implement the concept of EIP in the area. Based on the results of Prospective Analysis, there were five determinant factors to develop the EIP concept in GIE, namely: the integration of industrial activities with the environment, the application of symbiotic mutualism among industries, the development of water infrastructure, application of more informative management, as well as, the application of the concept of green design in infrastructure development. The development of an integrated strategy of GIE can only be executed if there are good cooperation and harmonious relationship among industries in the region, as well as between industries, governments, and local communities around the industrial area.

Keywords: Gasing industrial estate, Eco-industrial park concept, Integrated strategy, Development of an industrial park.
