IMPLEMENTATION OF SUSTAINABLE MODEL FOR THE
EVALUATION AND PREPARATION OF SUSTAINABLE STRATEGIES
OF RURAL WATER SUPPLY SYSTEM AT NGANJUK REGENCY

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ABSTRACT

The condition of water services has not been suitable to the community needs, especially the poor in Nganjuk. Several water supply development projects have been implemented, both managed by PDAM and by the communities. However, from 2003 until 2009, the development projects that had spent already approximately Rp. 13 Billions, could not able to sustain. This study was aimed to evaluate the sustainability of rural water supply system in Nganjuk, and to formulate strategies to increase its sustainability.

The study had been done at 17 locations which supported by electrical power from PLN. The total respondents were 100 peoples and 17 water managers. This study was conducted by means of the survey approach for the perception of customers and water managers. The variable used in this study consisted of nine variables namely: the source of water, choice of technology, the investment cost, operation techniques, institution management, manager/operator, sparepart, operating cost, and community participation. Data obtain was used as input into a model of sustainability to determine the sustainability index system. Furthermore, the SWOT analysis was used to formulate strategies to increase its sustainability.

From the result of 17 locations, it was found there are four locations with low level sustainability, eleven locations with middle-level sustainability, and two locations with high levels of sustainability. From the result then used about the influence factors of level sustainability. Furthermore that was used questionair disseminating to consider people that competent as the background to do the SWOT analysis. From the nine variables, water resource and the choice of technology have the greatest influence on the sustainability. Based on the SWOT analysis, the proposed general strategies were set have for different level of sustainability and the special strategy based on the level condition.

Keyword: sustainability, strategies, rural water supply system, Nganjuk Regency
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