MANAGEMENT SYSTEM FOR PIPES TRANSMISSION AND DISTRIBUTION PDAM DUA SUDARA BITUNG CITY FOR CONTINUING SERVICES

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ABSTRACT

Local governments through PDAM (Water Supply Enterprise) Dua Sudara Bitung City are expected to provide the best services and increase the service coverage of 45.31% (2009) to achieve the target coverage of 56% in 2015. The consumers still complain that the quantity of water distribution is inadequate due to the lack of continuity. The purpose of this study is to investigate the reevaluation of the target 56% coverage in 2015 and to determine the necessary efforts over the next 5 years in order to improve services of PDAM Dua Sudara Bitung City.

The research was started in collecting secondary data taken from the PDAM Dua Sudara Bitung City and other relevant agencies. Primary data was collected through interviews, surveyed the real needs on 100 respondents and measured residual stress. The further analysis, such as pipeline system transmission/distribution was done by EPANET system, socio-economic analysis, while decision analysis by POM QM for Windows, also the company analysis skills.

Based on the result of analysis and evaluation, it was found that if the PDAM could improve their system by using the existing asset, the services coverage only reached 1.73% and the coverage target only increase up to 47.04% in 2015. Feasibility to develop the company's condition and stage necessary to continue efforts for revitalizing the service is pipelined transmission system/distribution and is creating productive business alternative for short-term investments that could increase in its revenue.

Keywords : PDAM Dua Sudara Bitung City, pipe system transmission/distribution, reevaluation target
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