



Improvement of Physical Quality of Life and its Effect on Sustainable Development in South Labuhanbatu Regency – Indonesia

KEYWORDS

Physical Quality Of Life, Attitudes Of Society In Environmental Management, Sustainable Development, Structural Equation Model.

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ABSTRACT *Since the release of the Brundtland Report in 1980, which was then followed by the Summit Conference on Environment and Development in Rio de Janeiro in 1992, the vision of sustainable development has always been promoted. Unfortunately, there is a lack of understanding on sustainable development, even among people in developed countries. This research was conducted in five districts in ... with 332 respondents using Multiple Stage Cluster Sampling and Structural Equation Model data analysis. The results show partial physical quality of life impact of sustainable development at alpha 1% level, while the attitude of the community in the management of the environmental impact of sustainable development is at alpha 5% level, but simultaneously the physical quality of life and the Attitude of Society in the management of the environmental impact of sustainable development is at alpha 1% level.*

INTRODUCTION

Discussions and debates on sustainable development which was initiated following the publication of the Brundtland Report in the 1980s, were increasingly intensified with United Nations Conference on environment and development in Rio de Janeiro in 1992. This gave birth to the Conference's Agenda 21 which was then signed by 186 heads of State as a step for concrete implementations of sustainable development on a global scale. Ten years after the Rio Conference, the United Nations organized a Conference in Johannesburg with the title of The 2002 World Summit for Sustainable Development to evaluate the realization of the vision of sustainable development in the world.

But after 10 years of sustainable development at a Conference in Rio de Janeiro, the Conference in Johannesburg noted that there is still a lot of problems that occur in all aspects of sustainable development. In principle, there are three main dimensions of sustainable development, namely environmental protection, social and economic.

LITERATURE REVIEW

The definition of the concept of sustainable development differently interprets by some experts. However, sustainable development is actually based on the fact that human needs continue to increase. Such a condition is in need of a strategy the efficient utilization of natural resources. In addition, the attention of the concept of sustainable development is the existence of a moral responsibility to provide prosperity for generations to come, so that the problems faced in development is how to treat nature with a limited capacity but will still be able to allocate resources equitably at all times and to ensure the intergenerational welfare.

Bond et al (2001) defined sustainability development as the development of the multi-dimensional, to achieve the quality of a better life for everyone, where of economic development social and environmental protection reinforce in the development. Bosshard (2000) define as the development of sustainable development should consider five the principle of criteria: (1) abiotic environmental, (2) biotic environmental, (3) the values of culture, (4) sociology, and (5) the economy. Marten (2001) define as the fulfillment of the needs of the present without compromising sufficiency the need for future generations. Sustainable development does not mean economic growth, continued it is impossible to economy grew if he dependent on limited capacity of natural resources exist.

Munasinghe (1994) stated that the economic approach in sustainable development aimed at maximizing human welfare through economic growth and the efficient use of capital in the resource constraints and the limitations and the limitations of technology. An increase in output of economic development is done with fixed attention to ecological and social sustainability over time and provides reassurance to basic human needs as well as provide protection to groups. Businesses that can be done to achieve sustainable development are by doing a cost analysis of benefits or a development project. Development planning should be done in a comprehension with attention to long-term goals. In addition can be done to reduce excessive resource exploitation and cover the impact that may be incurred from the exploitation of resources, the latter is giving a price to pricing and charges.

So the economic goals in sustainable development is the improvement of the availability and adequacy of economic needs, the efficient use of assets in the sustainability of development resources to the management of environmentally friendly and still take account of community justice for both current and future generations. In this case the economic development not only pursue efficiency and high growth alone without regard to the social and environmental aspects. The ecological perspective is based on the consideration that the environmental change will occur in the future and is influenced by all human activities.

On the other hand, sociologists have different views compared with economic experts in achieving sustainable development goals. Expressed by Cernea (1994) that sustainable development was stressed on social organization of community empowerment. Sociologists's emphasis is on man as the key to the success of development through empowerment of developing viable social organization. Community participatory approach aimed at natural resource management by providing the motivation that leads to sustainability. By creating public awareness on the increasing ability of human resources, respect for the institutional forms and social organizations of society as a system of control over the course of the construction, the development of traditional community values containing the virtue and wisdom, enhance the independence and ability of society with freedom of Association.

Thus social factor in sustainable development is one of the factors that are no less important when compared with economic and ecological factors. Evidence has shown that development projects that take less attention to community social factors will hinder the success of the project or the

implementation of the development programs since it does not correspond to the needs of the surrounding community.

Sustainable economic development goals have correlations with environmental objectives. The success and sustainability of development will not be achieved unless it is supported by environmental conditions that economic and social development. The development will be hampered if the socio-economic conditions of communities filled with uncertainty. In addition, economic development without regard for the efficient use of natural resources and sustainability of use will cause degradation of nature, so that efforts can be done is by the use of efficient use of natural resources and provide an assessment of the environment by evaluating the environmental impact thereof. Because after all the development process that runs a little or a lot of negative externalities which would cause the community will feel the consequences of such damage. The Community shall pay the social cost either, current society as well as future generations.

The most important thing is the understanding of development starting from the approach to the development or whether it succeeds in reducing poverty. Economic growth always followed with the diminishing resources and the increasing the environmental costs. The next step should be a global consideration on finding an effective way so that development can simultaneously solve the problems of poverty without environmental harm or degrading the quality of the natural resources for future generations.

HYPOTHESIS TESTING

Testing the hypothesis presented in this study is based on the value of the Critical Ratio (CR) from a relationship of causality.

Table 1. Hypothesis Testing

	Est	SE	CR	P
Sustainable Development ← Physical Quality Of Life	46.549	17.466	2.665	.008
Sustainable Development ← Attitudes Of Society In Environmental Management	11.051	.301	1.170	.049
Attitudes Of Society In Environmental Management ← Physical Quality Of Life	1.334	3.036	.440	.660
Sustainable Development ← Attitudes Of Society In Environmental Management ← Physical Quality Of Life	14.742	.913	.514	.032

A. Hypothesis testing 1

Parameter estimation for testing physical quality directly affects sustainable development in South Labuhan Batu Regency and is indicated by the value of the CR of 2.665 with probability equal to $0.008 < 0.0$. Then, it can be inferred that the physical quality directly affects sustainable development in South Labuhan Batu Regency.

B. Hypothesis testing 2

Estimation of parameters for testing the attitude of society to the environment directly has an effect on sustainable development in South Labuhan Batu Regency and is indicated by the value of the CR of 1,170 with a probability of 0.049 & It; 0.05. Therefore, it can be inferred that the attitude of society to the environment directly has an effect on sustainable development in South Labuhan Batu Regency.

C. Hypothesis testing 3

Parameter estimation for testing physical quality directly affects the attitude of society to the environment in the Regency of Labuhan Batu South as shown by CR value 0.440, with probability of $0.660 > 0.05$. Hence, it can be concluded that the quality of the physical directly has no effect on the attitude of the community towards the environment in South Labuhan Batu Regency.

D. Hypothesis testing 4

Parameter estimation for testing physical quality indirectly influences sustainable development through the community's attitude to the environment in the Regency of Labuhan Batu South and is shown by the value of the CR of 0.514, with probability equal to $0.032 < 0.05$. Then, it can be inferred that the physical quality directly affects sustainable development in South Labuhan Batu Regency.

CONCLUSION

Using structural equation modeling, physical quality of life impact of sustainable development is at alpha 1% level whereas the attitude of society in the management of the environmental impact of sustainable development is at alpha 5% level, but simultaneously the physical quality of life and the attitude of society in the management of the environmental impact of sustainability development at alpha 1% level. Physical quality indirectly influences sustainable development through the community's attitude towards the environment on alpha 5% level. Therefore, the optimal environmental management will be able to achieve a balance economic, ecological and social welfare which is a dimension that must be met simultaneously to encourage sustainable development, a focus that the Government of South Labuhan Batu Regency should consider in their public policies. Sustainable developments create a constant condition of social welfare from generation to generation in an amount at least equal even when possible is increasing from time to time.

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