

ABSTRACT

Energy is an important factor in people's lives and as an important parameter in development and economic growth, because energy is needed in almost all sectors of life, such as households, transportation, industry, services, and several other sectors. The energy that is widely used until now is conventional energy from fossil energy sources, where conventional energy has a negative impact on the environment and society and its availability is increasingly limited. Bandung City is one of the Capital Cities in West Java Province which has high economic growth. This provides business opportunities as well as investor attractiveness from residents around, outside the region, and internationally. The development of increasingly sophisticated times and the increasing number of population which is higher causes the consumption of energy will be higher and provide a large environmental impact, so that it takes public awareness of healthy lifestyles and create a comfortable environment. To realize this, the concept of a Green City (Green City) can be one solution. There are several attributes that need to be considered in realizing Green City, one of which is green energy. The concept of green energy is expected to be a solution to the problem of environmental pollution, so that it can create a clean environment, and can also realize efficiency in energy use. Green energy itself is an alternative that is applied in the use of more efficient energy, and utilizing renewable energy.

This research is a follow-up study of variables and indicators on green energy, which is done by confirming and looking for the value of the green energy index in the city of Bandung. In this study, researchers used a mix method, where re-validation was carried out using qualitative methods, and quantitative methods used in finding value from the results of confirmation through interviews conducted on informants.

From interviews conducted with 30 resource persons 17 respondents were taken as sampling and the green energy index value obtained in the city of Bandung at 67.81, where the resulting index value can be included in the LESS GOOD category. The highest value is on the Technology Use indicator with an average value of 71.76 which is rated ENOUGH while the lowest index value is found on the Economic Stability indicator with an average value of 65.92 which is rated LESS GOOD.

From the results of the research that has been done, the suggestion for this research is to make a comparison with indicator data and variables in a city that applies green city.

Keywords: Green city, Green energy, Index Bandung City.