ABSTRACT

The level of public health is one of the measuring aspects of the success of the National development program of a country. Tanjungbalai is one of the cities in the North Sumatra that has not fully reached the target of national development programs, especially in the aspects of public health. It is evident that from the data published by the National Health Service in the form of the North Sumatra Provincial Health Profile 2012, we can see which states that the morbidity (morbidity) and mortality (mortality) of Tanjungbalai City community have not yet fully reached the national minimum rate target. In addition to its health financing for the poor are less prevalent, it is also due to the reluctance of people to undergo treatment by hospital medical personnel because the cost was quite expensive.

These conditions encourage the emergence of the idea of solving problems by increasing the quantity and quality of health care facilities in the form of operationally and architecturally cheap cost hospital. The hospital will be designed based on low cost (low cost) with the aim to achieve a health-care facility that is cheap and efficient in the cost of planning, designing, and maintenance.

The hospital was designed with the concept of low-Energy Building to support the implementation of the system through a low cost Low Energy Building design principles that maximize the nature potential processing into renewable energy sources independently, and minimize the negative impact for users and the environment, and is efficient, low cost, and sustainable in accordance with the purposes of the application of the system of low cost (low cost).