

## **ABSTRACT**

Natural disaster is a disaster that is very detrimental to living things around it. Surely the disaster has a natural trigger source, for example in the case of a potential earthquake in the city of Bandung caused by a lembang fault in the area of West Bandung. Electricity is often a problem in areas where refugees fled after natural disasters. The problem of wasteful diesel generator energy resulted in the absence of an effective source of electricity and lighting, other than that information or the distribution of the area is still fairly slow due to the portable speaker system and even door-to-door announcements. From these problems an emergency lighting and emergency wireless loudspeaker product can be designed to be provided in each of the evacuation tents. By using the X-Problem method consisting of immersion, convergence, divergence, and product adaptation is designed with a focus on an effective and efficient function approach.

Keywords: Electricity, Lighting, Solar Power, Information, Wireless Speakers