

Social Life Cycle Assessment of Solar Suitcase in a Community of Doña Remedios Trinidad, Bulacan

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Abstract: Majority of the barangays in Doña Remedios Trinidad, a municipality in Bulacan, are unelectrified due to its mountainous structure. Because of this, the researchers deploy the Solar Suitcase in a barangay. Based on initial observation and interview, the researchers found out that Barangay Kalawakan is one of the barangays that is unelectrified. One can reach this barangay using a vehicle that can be driven on a muddy road for almost four hours from the mainland. A Social Life Cycle Assessment approach will be used to develop an evaluation process tool in assessing the social and socio-economic impact of Solar Suitcase in this isolated and unelectrified community. The potential benefits of the product to the community as well as the associated accountability while utilizing the product are included on the analysis. Subjective data which may be comprised of stakeholders' preferences are just some of the qualitative measures to be used in order to demonstrate the social impact of the product under study. Nevertheless, the outcome of the study will not dictate the decision making process relating whether the Solar Suitcase is recommended to be produced or not.

Keywords: *Social Life Cycle Assessment; Solar Suitcase; Social and Socio-Economic Impact*