

Edu(A)ction

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Submission Category:

(A) Technical research proposal to solve concrete problems :

SDGs Targets/Indicators:

Our innovation try to targeting a few SDG's target such us :

1. No poverty (1) = by educating children and also the lower class community about waste management and how to make it more economic value it could help improve their lives economically
2. Quality education (4) = by educating street children and the lower class of society this innovation has helped to ensure inclusive and equitable education and encourage lifelong learning opportunities for everyone
3. Affordable and clean energy (7) = by producing output products in the form of energy products such as bioethanol and bio-briquette from waste, it can help to ensure affordable, guaranteed, sustainable and modern energy for everyone
4. Decent work and economic growth (8) = the educating method that have been mention in point 2 can also encourage continuous, inclusive and sustainable economic growth, as well as full and productive employment opportunities and decent work for everyone
5. Responsible consumption and production (12) = with the method that this innovation offers it can build a sense of responsibility for the waste produced so it can create a pattern of sustainable production and consumption
6. Climate action (13) = managing waste can produce a large impact on waste management so that it can reduce the waste that has become Indonesia's problem so far, it can also be a point in combating climate change. Because so far waste is also one of the factors that cause climate change due to the methane gas produced

Abstract:

The main root problem of wastes in Indonesia is management society. Sustainable waste management systems are needed to handle the increasing amount of household waste across the

globe. The management of waste is becoming a hot topic in policy circles. Municipal governments, which are largely responsible for building and maintaining waste disposal networks, are keen to find ways of minimizing the cost of disposing of waste and the sheer amount of waste society produces. The proposing of “Edu(A)ction” hope can be alternative to manage the waste in the near of landfill. “Edu(A)ction” consist of 2 words, Education and Action. As we know, everyday and every human definitely produce wastes, from what they eat or even from their activities. The “Edu(A)tion” concept including things collection, transport, treatment and disposal of waste together with monitoring and regulation. Sahabat Anak located in Cijantung and Gemilang Indonesia’s Foundation are selected to be partners. Both of foundation given fully education how to sorting the wastes and action how to convert the usefull waste to become renewable energy material (biobricket and bioethanol) and also crafting from plastic wastes. The unique trash-bin are made to give a positive impact for stakeholder. The results showed for the renewable energy material from organic wastes that there was different composition variety of organic waste forming the briquette on the heat value (p value = 0.001 ≤ 0.05) and the energy yield up to 68%.

Kramat Djati and Pasar Minggu Traditional market are selected for society lab-scale. In there has a big landfill, after we get a significant result from the both of foundation, The assited village project will start to make a biogas plant in the landfill area.

Graphical Abstract:

Good Habits Produce Bioenergy and Useful Stuffs

