

Development of Recycled Plastic Products To Improve The Ecofriendly Business Potential

by Kun Sri Budiasih, Eli Rohaeti, Senam, Indyah Sulistyoyo Arty

ABSTRACT

The use of plastic for various purposes causes the increasing of plastic waste. Plastic waste management is needed consider the 3R concept: Reduce, Reuse, Recycle. Recycling of plastic waste involve development of new products such as functional goods or changing plastic into other products.

For household scale and community groups, one of the practical plastic waste recycling activities is the creation of functional new products by utilizing certain plastic waste. One of them is making new products from used plastic materials for packaging drinks, powder, soap, and consumer goods products into various bags and functional objects (pencil cases, tissue boxes etc.), and making ecobricks. Functional products and handicrafts made from used plastic have economic potential. Ecobrick is a unit of building material formed by plastic bottles / boxes that are compacted with other plastic waste contents. The ecobrick concept is a form of reuse or an extension of the use of plastics into functional products. An alternative to ecofriendly functional plastic is bioplastic or biodegradable plastic. This plastic is made from cellulose source material such as cassava flour or corn flour.

This activity gives the idea of ??processing plastic into functional new products and skills in making bioplastics from cassava flour and corn flour. The target of this activity is participants' understanding of the potential for recycling plastic packaging as a new functional product and the skill of making bioplastics. The audiences were the community study groups, and also attended by a number of activists, i.e Momong Bumi Community, Sardonoharjo Waste Bank, Bumdes administrators, and organic farming communities. The audience get benefit by increasing insight and skills, and growing commitment to care to the environment.

Kata Kunci: waste, plastic, recycle, functional products, biodegradable plastics