CREATING ECO-FRIENDLY BAGS TO REDUCE PLASTIC WASTE AND INCREASE SALE VALUE

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Abstract

Plastic waste has become a common problem in Indonesia. The Indonesian government has actually issued many policies to overcome the impact of plastic waste, but so far the Indonesian government has not succeeded in dealing with plastic waste. Currently, Indonesia has many young generations. As the younger generation in Indonesia, we propose a solution to deal with plastic waste, namely by using environmentally friendly bags made from spun bonds. We also implement the solutions we offer for the children at Rumah Yatim and Dhuafa Islahul Hayat Foundation, Pondok Petir.

Keywords: plastic waste, solution, implementation

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INTRODUCTION

Plastic waste is one type of garbage that is difficult to decompose. Strong constituent bonds in the formation of plastic make plastics long to decompose (Utami et al., 2014). Plastic waste has been a problem for Indonesia since long ago (Narto & Suparno, 2020). The amount of plastic waste in Indonesia is motivated by the many uses of plastic in everyday life by the people of Indonesia (Maslamah et al., 2020).

Plastic is used in almost every aspect of life. Plastic becomes a wrapping material for food, beverages, and others. It is undeniable, the use of plastic in everyday life is very helpful to the community. For example, plastic as a food or beverage wrapper can make the food or drink awake so that it is durable. Not only as a food or beverage wrapper, but plastic is also used as a material for making toiletries, cooking utensils, and others related to human life. It is certain that all houses in Indonesia must have plastic waste every day (Satrivi & Purnama, 2021). Indonesia is one of the most plastic waste contributing countries in the world. In 2010 it was noted that Indonesia is the second most contributing country to plastic waste in the world after China with the plastic waste of 3.2 million tons (Rarasati & Pradekso, 2019).

The impact of plastic waste is not only felt by the people who produce the waste but also has an impact on the environment (Kusminah, 2018). There are many negative impacts caused by plastic waste, both for humans and for the environment. The impact of plastic waste for humans is pollution in everyday life, if plastic waste is dumped carelessly in the river it will pollute the river and will make the water dirty, dirty water will have an impact on humans, namely humans can not get clean water from the river anymore (Sahabuddin, 2012). The impact of plastic waste on the environment is very much, for example, if plastic waste is dumped carelessly in the river it will
cause river pollution so that the ecosystem in the river will be disrupted. Plastic waste dumped in rivers will also be able to reach the ocean and will cause pollution to marine ecosystems as well. Plastic waste can also have an impact on the soil environment if plastic waste is dumped carelessly in the soil and as we know plastic waste is one type of waste that is difficult to decompose it will cause pollution in the soil by reducing soil fertility rates and damaging ecosystems in the soil (Purwaningrum, 2016). If plastic waste dumped in the soil is difficult to decompose then most people choose how to burn waste so that plastic waste quickly disappears, but the way it negatively affects the air around because it will cause air pollution by adding carbon dioxide. Air pollution will also have an impact on humans because living humans need oxygen and if the air is polluted then the quality of oxygen obtained by humans will also decrease and will cause many health problems for humans (Fath, 2021).

Of the many negative impacts caused by plastic waste, further handling or action is needed regarding plastic waste in Indonesia. Plastic waste must be reduced so that the quality of life of Indonesian people increases. Since long ago the Indonesian government has made various policies regarding the reduction of plastic waste and the Indonesian government has started a greening movement to improve the quality of the environment in Indonesia. However, until now the way done by the Indonesian government is still less effective because plastic waste in Indonesia is still very much. There is a need for awareness from each individual to maintain the surrounding environment to be maintained because one of the policy factors and actions were taken by the Indonesian government to reduce the impact of plastic waste does not work is the lack of awareness about the importance of maintaining the environment by the people of Indonesia.

Awareness about the importance of maintaining the surrounding environment is very important owned by the people of Indonesia to realize a clean and healthy environment we can start from ourselves and from the surrounding environment. One way to overcome the impact of plastic waste is to reduce the use of plastic in everyday life. It has become a common thing when in shopping we will definitely get a plastic bag or crepe to accommodate groceries. Indirectly, this habit is one of the activities to contribute the most plastic waste to Indonesia. The use of plastic bags can be found in other alternatives in order to reduce the use of plastic. For example, the use of bags that can be used repeatedly. The use of environmentally friendly bags can be an alternative to reduce plastic waste. The description of the problem of plastic waste in Indonesia behind the author to pour the idea of using environmentally friendly bags in order to reduce plastic waste. We can use a bag made of spun-bond so that the bag can be used repeatedly. The use of environmentally friendly bags can start from ourselves and invite the surrounding community.

**METHOD**

The method applied in this activity is hands-on practice. Where the practice in this activity is carried out with several stages, including:

1) Purchase of eco-friendly bags made from spun bond: The purchase of this bag is done at the online shop. The purpose of purchasing these bags is to save time in the practice of activities and also to get factory quality. The purchase of this bag also aims to help small
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and medium-sized businesses. Assistance provided in the form of bag purchases, so as to increase sales of small and medium-sized businesses; and

2) Socialization of environmentally friendly bag creations: Socialization regarding the creation of environmentally friendly bags is carried out at Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir. The selection of this location aims to instill a love of environmentally friendly bags in children because habits will be easily formed if applied or introduced early. The hope of socialization regarding the creation of environmentally friendly bags for children is to increase the sense of environmental care and also increase the interest in using environmentally friendly bags. Interest in children can arise because of the socialization process carried out by self-decorating methods. So, each child can decorate their own spunbond bag according to their respective creativity with the help of a companion. Another reason for the selection of socialization places is to provide happiness to orphans and Dhuafa through environmentally friendly bag creation activities. It is hoped that with this activity children at Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir can rejoice and enjoy every series of activities carried out.

The technique used in this activity to increase interest in creating environmentally friendly bags to reduce plastic waste is to not limit every child's creativity. Every child is given the freedom to decorate the bag obtained according to their imagination. Every child is also given the freedom to express their feelings through the creation of bags they make. The purpose of the liberation of creativity in children in The Orphan House and Dhuafa Yayasan Islahul Hayat, Pondok Petir is to reduce boredom to this series of activities and also to increase the imagination of children in Orphan House and Dhuafa Islahul Hayat Foundation, Pondok Petir.

RESULT AND DISCUSSION

PKM (Community Service) activities conducted by Pamulang University Students were held for one day on the stairs of November 7, 2021, which was attended by 15 children in Orphanage and Dhuafa Islahul Hayat Foundation, Pondok Petir with children around the age of elementary school children.

<table>
<thead>
<tr>
<th>No.</th>
<th>Problem</th>
<th>Solution</th>
<th>Activity Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Lack of interest in children in Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir to do environmentally friendly bag creations.</td>
<td>Explaining the excitement of decorating environmentally friendly bags accompanied by jokes from escort brothers.</td>
<td>1) Introduction of eco-friendly bags made from the spun bond; 2) Environmentally friendly bag decking made from spun bond; and</td>
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</tbody>
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Table 1. Results of PKM (Service to the Community) at Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir
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| 2 | The difficulty of setting the conditions to be conducive when doing activities to decorate environmentally friendly bags. | The division of the team by the brother of the escort brothers. So, each companion brother has the task to accompany several children in order to create conducive circumstances. | 1) Environmentally friendly bag decking runs conductively;  
2) Every child can participate in activities in an orderly manner; and  
3) Comfortable and conducive conditions during the activity. |
| --- | --- | --- | --- |
| 3 | It is not easy to bring creativity to children in The Orphan House and Dhuafa Islahul Hayat Foundation, Pondok Petir. | In between activities held jokes or jokes to dilute the atmosphere so as not to tense with the aim to relax the minds of children. Older siblings also help bring creativity to children by giving ideas or fishing for ideas. | 1) Every child manages to decorate a well-owned bag;  
2) Creativity contained in environmentally friendly bags made from spun bonds carried out by various children; and  
3) Every child is happy with their creativity. |
| 4 | It is easy to appear bored during activities. | The companion brother makes the atmosphere fun or dilutes the atmosphere. | 1) The companion brother familiarizes himself with each child by inviting them to chat; |
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2) Playing games on the sidelines of activities; and
3) Tell each child.

Here is some documentation during the activity:

Figure 1. The Process of Explaining Environmentally Friendly Bags
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Figure 2. Environmentally Friendly Bag Creation Briefing Process

Figure 3. Examples of A Child Who Successfully Created Spunbond Bags
The selection of activities carried out by the Pamulang University team is based on the condition of the Indonesian state which has a lot of plastic waste and still cannot cope. Plastic waste has been a problem for Indonesia for a long time. Many factors cause a lot of plastic waste in Indonesia, one of which is the use of plastic in everyday life by the people of Indonesia. To prevent or overcome the impact of plastic waste, we as wise citizens can do so by reducing the use of plastic in everyday life.

One way that can be done to reduce the use of plastic in everyday life can be done through yourself first and the surrounding environment. Reducing the use of plastic is not easy to do, because Indonesian people have long used plastic materials in everyday life, but we can start the habit of reducing the use of plastic from ourselves and people. The easiest change to make is to change own’s self first and change people. The habit of using plastic in everyday life does need to be overcome, because considering the large production of plastic waste in Indonesia. Reducing the use of plastic in everyday life is also a form of a love of the homeland, because by reducing the use of plastic in everyday life then we are also guarding our country against environmental pollution and ecosystems in the environment.

If a country maintains the environment and ecosystems in that environment, then the development and growth of the country will be better. With a good environment and environmental ecosystem, the country can run or use the resources owned optimally or maximally. If the country can use or run the resources it has optimally or maximally, then the economy in that country will be better because the good economy in a country is obtained from the success of a country in carrying out its economic role. As a good color of the country, we should help the country in growing and developing our country's economy.
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One way that can be done to reduce plastic waste is to reduce the use of plastic in everyday life. One of the most widely used uses of plastic in everyday life is the use of plastic or crepe bags. It can be ascertained that all houses in Indonesia must have plastic bags or crepes. The use of plastic bags or crepes that are often used only once and then made makes the pile of plastic waste in Indonesia increase. Therefore, we can reduce the use of plastic waste or crepe in everyday life by using environmentally friendly bags that can be used many times.

The use of environmentally friendly bags that can be used many times is very effective to overcome plastic waste. The use of environmentally friendly bags that can be used many times will reduce the use of plastic bags or crepes and environmentally friendly bags that can be used many times is also one form of a frugal life, because by using bags that are not easily damaged the people of Indonesia will save money to buy plastic bags. Or kresek many times, by using bags that are not easily damaged Indonesian people will also reduce plastic waste because the bags they use will not be easy to become waste.

The reason why plastic waste is a problem for the Indonesian state is that plastic waste is one type of waste that is difficult to decompose. The decomposition of plastic waste takes years because plastic manufacturing materials have very strong carbon bonds. If plastic waste continues to accumulate in Indonesia, environmental pollution will be a big problem for Indonesia. A polluted environment will damage the quality of life of Indonesian people. Not only that, the polluted environment will cause the Indonesian economy to be bad because with a polluted environment Indonesia will not be able to manage the resources owned properly. The management of resources that are undertaken if done optimally will cause a decrease in the economic level in Indonesia. The decrease in economic levels will cause the welfare of Indonesian people to also decrease. The economic downturn will lead to more unemployment in Indonesia. If unemployment is increasing, then many Indonesians can not get income to meet the needs of life.

Actually, the Indonesian government has issued many policies to overcome plastic waste, but until now the Indonesian government's efforts to reduce plastic waste are still not effective because there is still a lot of plastic waste in Indonesia. The problem of plastic waste is not only a concern in Indonesia but around the world. Garbage is the most common problem but has not been resolved until now. Not only does Indonesia have a problem regarding plastic waste, but China is also a country that has problems regarding plastic waste. The problem of plastic waste is a global problem because almost all people in the world can not be separated from the role of plastic in everyday life.

One of the problems caused by plastic waste is global warming, where global warming occurs due to the depletion of the ozone layer caused by a lack of oxygen. Plastic waste can cause reduced oxygen because plastic waste that accumulates will cause environmental pollution, both water, soil, and air. If the environment is polluted, oxygen-producing plants will not be able to grow properly and the quality of oxygen both in Indonesia and in the world will decrease and will cause environmental problems that affect humans, for example, global warming.

Indonesia has a lot of young people. The younger generation in Indonesia should be able to find or create solutions to the existing plastic waste problem. The development of the era
accompanied by the development of technology should be able to help the younger generation in Indonesia to think creatively and innovatively to find solutions to problems for plastic waste in Indonesia. In the current era, there are many young people who create innovation in the field of business. Innovation in the field of business should be accompanied by innovation to improve the surrounding environment because if the environment occupied is healthy, then every activity we do in the environment will be optimal. Optimal activities will produce maximum output.

As a young generation from Pamulang University, we create innovative and creative ways to tackle the problem of plastic waste in Indonesia. The way we do this is to use an environmentally friendly bag made of spun-bond. The selection of students that use environmentally friendly bags made from spun bond because the bag can be used repeatedly and can be purchased at e-commerce or on the free market. The use of spun-bond bags is one of the right solutions because of the implementation of the solution we can do from ourselves. After successfully implementing the use of spun-bond bags against ourselves, we can spread the implementation to others or the surrounding environment.

The target we aim to improve the implementation of plastic waste reduction solutions by using bags made from spunbond is children in Rumah Yatim dan Dhuafa Yayasan Islahul Hayat, Pondok Petir. We chose them as the first goal we aimed for because the habit of starting a good thing should be instilled as early as possible. Therefore, the first goal we aim for is children with the age range of elementary school, because at that age children have begun to have a sense of responsibility, and creativity has appeared in themselves. Another reason for the selection of the first target for the implementation of plastic waste reduction solutions is to strengthen the friendship with the Orphan House dan Dhuafa Islahul Hayat Foundation, Pondok Petir, and to entertain children there.

The activities we did at Rumah Yatim dan Dhuafa Yayasan Islahul Hayat, Pondok Petir to realize the solution we thought about was to create a bag made from spunbond that is still plain. So, the activities we do with children at Rumah Yatim dan Dhuafa Yayasan Islahul Hayat, Pondok Petir is to make creations on bags made from spunbond. The first activity we do is introduce the importance of reducing plastic waste in the surrounding environment and also explain that to reduce plastic waste in the surrounding environment we can do it through ourselves and the people around us.

The next activity we do is to accompany children at rumahYatim dan Dhuafa Yayasan Islahul Hayat, Pondok Petir doing creations on bags made from spunbond. In doing creations on spunbond bags we do not limit the creation of every child. The role we carry out in these activities is as a companion so that in doing creations on children's spunbond bags at The Orphan House dan Dhuafa Yayasan Islahul Hayat, Pondok Petir has a picture or guidance to find their own innovations.

The end result of the activities we did at Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir is that every child managed to pour their creativity on a bag made of spunbond that is still plain into a beautiful bag. Every child is satisfied with the results of their creativity. Our
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goal is to increase creativity in every child and also to foster the desire to use spunbond bags as a form of implementation of plastic waste reduction solutions in Indonesia.

CONCLUSION

Based on the activities we have done at Rumah Yatim and Dhuafa Yayasan Islahul Hayat, Pondok Petir as a form of implementation of plastic waste reduction solutions in Indonesia can be concluded that lifestyle changes to reduce plastic use in everyday life can be done through ourselves and the surrounding environment. Effective changes need to be implemented as early as possible. Therefore, as a younger generation, we need to be diligent to remind people around us about the importance of reducing plastic waste.

REFERENCE


