

University Policy to Reduce the Use of Plastic Bags in Bogor Agricultural University (Ipb) as Provide a Model for Others University and Community

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Abstract. Plastic bags are piled up due to the lifestyle of modern society and all-round 'instant' that drives high levels of consumption plastic bags in the community. Bogor Agricultural University (IPB) became one of the evidence on uncontrolled use of plastic bags on campus. The results of the interviews we have done to the merchants they were spending an average of 130 plastic bags every day. If this number multiplied by the number of traders and minimarket in the IPB campus environment that is a fantastic amount of 41.470 plastic bags per day. IPB is an educational institution that has an obligation to protect the environment can serve as a model or example of an institution to implement policies to maintain and loving environment. Through the existing policy on campus, people, especially students are expected to abide by IPB development policy and regulations. Especially policies to reduce use of plastic in the environment around the IPB. Activities to reduce the use of plastics in the environment can be applicable IPB campus through legislation and policies agreed upon by all parties. However, this policy will not run properly, if IPB as an institution that makes the policy memberian no incentives or solutions other than the use of plastic wrapping material. Therefore, to provide incentives to students to reduce plastic bag usage, the IPB can cooperate with the Ministry of Environment Republic of Indonesia (KLH) in the provision of incentives in the form of replacement plastic packaging bags. In this respect, KLH and IPB can cooperate in the procurement Goody Bags labelled KLH and IPB and have a specific message to reduce plastic bag usage and to safeguard the environment. So that IPB can be a provide model for others university and community.

Keywords : Plastic bags, Goody bag, University policy

1. Introduction

Today, the entire world is experiencing environmental problems affecting the socio-economic conditions of society. One reason is the amount of waste generated by humans, from both industrial and domestic activities. Along with the increase of population, industry is also growing, which directly or indirectly change the lifestyle of the people, which leads to uncontrolled amounts of waste generated. According to the Ministry of Environment Indonesia (2004) that each person produces approximately 2.69 liters of waste per day or as much as 0.8 kg per day of waste volume, the percentage of waste transported the officer is 40.09 percent (partly transported to the landfill and in part to the wild TPA), 7.54 percent stockpiled, processed into compost and recycling 1.61 percent, 35.49 percent were burned, and another 15.27 percent (discharged into rivers, roads, parks, and others).

One type of waste that needs to be monitored is garbage plastic bags. Plastic bags that were mounting due to the lifestyle of modern society and all-round 'instant' that drives high levels of consumption plastic bags in the community. While the plastic bags itself has harmful effects on the environment, among others: Plastic bags hard plastic decomposes; it takes up to 1000 years for plastic to biodegrade completely in the ground. In addition, a biodegradable plastic in the soil can contaminate soil and groundwater; Plastic bags of plastic being burned will produce smoke containing dioxin, one of the compounds are toxic and harmful to

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health; Plastic bags of plastic are discarded out of place will cause flooding due to clogged drains, levees, polluted waters, and so forth.

Moreover about 500 million to 1 billion plastic bags used worldwide each year. Plastic bags also plays a role in the phenomenon of global warming due to be one of the biggest contributors to greenhouse gas emissions in the atmosphere. The flow of plastic trip to the disposal of the production process requires about 12 million barrels of oil and 14 million trees annually. Based on the average of all results get GI (Greeneration Indonesia) research, the use of plastic bags per person per year is about 700 sheets.

IPB became one of the evidence on uncontrolled use of plastic bags on campus. Every student who buys food for the traders always use plastic to wrap it up. The fact this happened over and over every day. The results of interviews we have done to one trader apparently they spent an average of 130 plastic bags order to each day. If this number multiplied by the number of traders and minimarket at IPB campus is a fantastic amount that is 41.470 plastic bags per day.

2. Methods

Writing this paper uses the method literatur study, direct observation and interviewing various reliable sources. In addition, as a reference we also use the journal as we can from the internet and textbook library is directly taken from the IPB.

3. Description

3.1. Use of Plastic Bags at Bogor Agricultural University (IPB)

There are about 319 vendors selling around IPB. Most of the traders of food and snacks for students. From the interviews we've done, it was 52.35 percent of merchants are using plastic to wrap the food they buy student. Excessive use of plastic caused a mounting garbage in several places around the IPB. One of them is in the dump behind the gymnasium IPB, as shown below:



Fig. 1: Plastic Bags In IPB

Actually there are many scavengers in the IPB are always collecting plastic waste in IPB surroundings. However, rubbish the collected is waste plastic mineral water bottles, not the rubbish from the plastic bags which used the students to wrap. Therefore, it can be seen in the Fig. above that most of the rubbish that piles up in the garbage dump is a plastic bags. The impact of excessive use of plastic is not only happening in IPB surroundings, but also occurs in the garbage dumps near the IPB that is in the area Galuga. Here's a buildup of waste in landfill in the area Galuga.



Fig. 2: Plastic bags in galuga district

3.2. Campus Policy as a Solution to Reduce Use of Plastic Bags

Plastic bags are biodegradable materials that are difficult in nature. Therefore, public awareness is needed to reduce its consumer and replace it with another material that is easy to decompose in nature. IPB, which is an educational institution that has an obligation to protect the environment can serve as a model or example of an institution to implement policies to maintain and loving environment. Through the existing policy on campus, particularly the IPB students are expected to comply with the development policy and regulations. Especially policies to reduce use of plastic in the environment around the IPB.

Activities to reduce the use of plastics in the environment can be applicable IPB campus through legislation and policies agreed upon by all parties. However, this policy will not run properly, if IPB as an institution that makes the policy memberian no incentives or solutions other than the use of plastic wrapping material. Therefore, to provide incentives to students to reduce plastic bag usage, the IPB can cooperate with the Ministry of Environment (KLH) Republic of Indonesia in the provision of incentives in the form of replacement plastic packaging bags. In this respect, KLH and IPB can cooperate in the procurement Goody Bag labeled KLH and IPB and have a specific message to reduce plastic bag usage and to safeguard the environment.

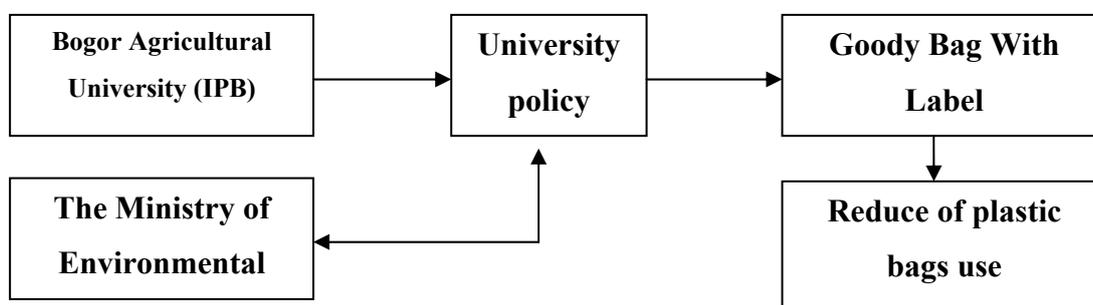


Fig. 3: The scheme of cooperation between IPB and KLH to make an alternative the use of plastic bags (supplying the goody bags)

4. Discussion

Policy of an educational institution is a tool that can make all the pupils therein are fully bound to comply with the policies or rules. Through the policy of Indonesia campus is expected to realize the program of reduction of the use of plastics in society. This needs to be started from academics as intellectuals should be more attuned to protecting the environment from a variety of pollutants that can interfere with human life. IPB student who was part of the community can serve as a role model and example in the realization of programs to reduce plastic bag use in society. Through the agricultural institute policies regarding the prohibition of the use of plastic bogor and incentives provided, IPB requires some instruments in the delivery of this policy should include any dissemination, distribution of goody bags, cooperation with the merchants and monitoring and sanctions.

Policy instruments to socializing at the IPB can be done through the introduction of new college students. At IPB, the introductory college student in a seminar held for three days. Therefore, socialization programs to reduce use of plastic bags in the IPB can be done through the introduction of this campus. This object is the socialization of new students, while for senior students to do public seminars specifically. By IPB cooperation with the Ministry of Environment (KLH) on the supply goody bags as an alternative to plastic bags can be distributed at the introductory college freshmen, while for other students who share goody bags can be done at public seminars on reducing use of plastics in the IPB.

Furthermore, this program is not only done through incentives provided college students, but IPB have also entered into a collaboration with the merchants at IPB. IPB traders should also be given incentives to support the program being implemented. An incentive can be done through the dissemination and use of plastic-free certification. That way, the monitoring program is not only internally by the IPB, but also externally by the merchants.

With this policy, the expected use of plastic bags in the IPB can be reduced so that the IPB as an educational institution can become a model or example for the community. In addition, existing policies in

the IPB is expected to be emulated by universities and other educational institutions to reduce use of plastic bags are difficult to decompose in nature. If the program is implemented properly the beginning of the student, then traders and eventually the entire community around the campus, there would be no longer penggunaan plastic waste in the community as is the case today.

5. Conclusion

The idea to create the university's policy as a solution to reduce plastic bag usage in the campus environment is one way that humans can do in starting a program to care for the environment. How this is done in stages starting from the students and the whole party in a campus environment which can then be used as a model and example to the community as a whole. An educational institution includes IPB has a rule that can organize and direct the students to things that have been agreed.

If policy not to use plastic bags have gone well, this will be a model for society in general to participate in the program reduced use of plastics. Expected outcomes of this idea is the creation of educational institutions are not only proficient in theory and thoughts on the impact and solutions to the good of the environment, but also practice it in everyday life locally.

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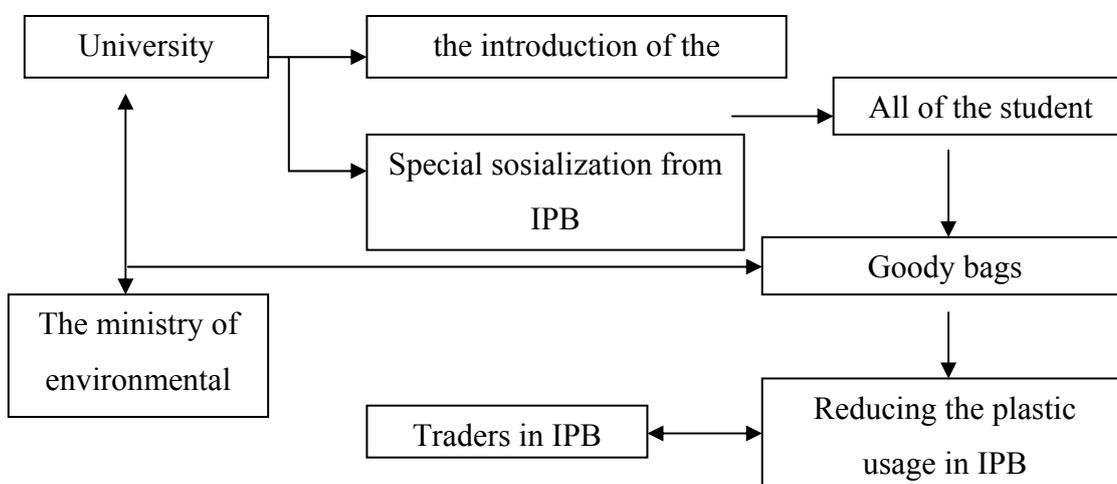


Fig. 4: The Scheme of Reducing Plastic Bags in IPB and Cooperation with others