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Handling Global Warming with The Movement to Plant Trees in Terasbendung Village Communities

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Abstrak

Desa Terasbendung merupakan salah satu desa di kecamatan Lebakwangi, kabupaten Serang dan berada di daerah dataran rendah dengan luasnya lahan pertanian padi sebagai komoditas utama. Luasnya lahan pertanian tidak dibarengi dengan kawasan rindang sehingga lingkungan desa menjadi gersang dengan rumput-rumput liar di sekeliling jalan. Terkait permasalahan tersebut upaya yang dilakukan adalah dengan gerakan DEMEN (Desa Menanam Pohon) sebagai program unggulan. Program ini terdiri dari empat tahapan mulai dari tahapan persiapan dengan observasi daerah, tahap pelaksanaan, tahapan implementasi, dan tahap evaluasi. Pohon yang ditanam meliputi pohon pulai, pohon ambon, pohon manga, dan pohon rambutan. Penanaman dilakukan di kawasan sekitaran jalan menuju desa mulai dari kantor desa Terasbendung dengan jumlah 90 pohon. Upaya ini mengedukasi masyarakat terkait pentingnya pohon dalam lingkungan dan diharapkan jadi upaya masif untuk kedepannya. Gerakan satu pohon untuk dunia mulai dari desa akan dapat berkembang menjadi gerakan masif untuk daerah lainnya sebagai percontohan.

Kata Kunci : Program Demen, Pohon, Pemanasan Global

Abstract

Terasbendung Village is one of the villages in Lebakwangi district, Serang regency and is located in a lowland area with an area of rice farming land as the main commodity. The size of the farmland is not accompanied by shady areas so that the village environment becomes arid with weeds around the road. Related to this problem, the efforts made are with the DEMEN (Village Planting Tree) movement as a superior program. This program consists of four stages starting from the preparation stage with regional observation, the implementation stage, the implementation stage, and the evaluation stage. Trees planted include pulai trees, ambon trees, manga trees, and rambutan trees. Planting is carried out in the area around the road to the village starting from the Terasbendung village office with a total of 90 trees. This effort educates the public regarding the importance of trees in the environment and is expected to be a massive effort in the future. The movement of one tree for the world starting from the village will be able to develop into a massive movement for other regions as a model.

Keywords: Demen's Program, Trees, Global Warming



Introduction

Terasbendung Village is one of the villages located in Lebakwangi District, Serang Regency, with a coordinate point of -6.091000,106.277576, 6°05'27.6"S 106°16'39.3"E. This village is in a lowland area with an area of rice farming land as a commodity so that the population's profession is dominated by farmers. The large area of agricultural land does not cause the beautiful condition around the road but the village environment is still arid because where the surrounding road is surrounded by rice fields that there are no trees to cover the road so that the access road to Terasbendung Village is very hot and there are weeds. This condition is caused by the imbalance between the area of the yard and the trees around the village, thereby reducing coolness and having an impact on increasing global warming.

Global warming is the occurrence of increasing the average temperature of the earth's atmosphere, seas, and land. In addition to global warming, climate change and human activities can also affect the air, the environment and others. In line with Mulyani's statement, A. S. (2021) who explained that the point is that the cause of global warming is the existence of human activities, so it is very important to provide education to the public with the aim of making humans aware of the importance of saving the environment so that children and grandchildren in future generations are not miserable due to enduring the actions of humans who lived in the era before them through efforts that can be done such as improving environmental conditions.

Healthy environmental conditions can reduce the impact of global warming. One of the ways to prevent global warming is greening by planting trees. Trees are one of the saviors of the earth from global warming. Trees have a very important role in the carbon sequestration and global carbon cycle. Tree planting can protect the environment from air pollution and convert carbon dioxide into oxygen needed by humans, while also making the environment cooler and more beautiful. With this, tree planting around the village becomes the flagship program of DEMEN (Desa Menanam Pohon) where the target of this program is the village community so that the implementation of this program is to work together to plant trees together with the community of Terasbendung Village. The trees planted include pulai, ambon, mango, and rambutan trees planted on the roadside around the Terasbendung Village hall office.

Implementation Method

The implementation of tree planting activities is carried out through four stages. The first stage is preparation, including searching for issues related to global warming, conducting field observations to find out the conditions in Terasbendung village, and designing the DEMEN (Desa Menanam Pohon)program. The implementation stage, in collaboration with DLHK (Environment and Forestry Service) and socialization of program plans. The implementation stage includes submitting tree seedlings, planting with residents, and providing tree seedlings to special locations (Schools, Sub-districts, KUA, Village halls). In the evaluation stage of the program, this last stage aims to evaluate the results of the community service program.

1. Preparation



2. Coordination

In this activity, we collaborate with DLHK (Environment and Forestry Service) as a partner who will help make it a success in planning the program that will be submitted to the village head and steakholder of the Terasbendung community. Furthermore, socialize the program plan to coordinate with village officials and the Terasbendung village community, then discuss the location to be planted with tree seedlings.

3. Implementation

The work program carried out is to submit a letter of application for tree seedlings to the DLHK (Environment and Forestry Service) with the approval of the Head of Terasbendung Village. The handover of tree seedlings to village officials as many as 90 tree seedlings (Pulai, ambon, rambutan, mango) which were then planted with the Thematic KKM and the Terasbendung community. The location chosen to be planted with tree seedlings is along roads and special places such as elementary schools with the implementation of the DEMEN (Desa Menanam Pohon) work program on August 4, 2022.

4. Evaluation

This stage is related to the evaluation of program implementation and the expected results related to problem solving. The lack of public awareness of greening and global warming that is happening in Terasbendung village is the main problem, making the Group of 06 UNTIRTA Thematic KKM moved in submitting a greening program plan, namely, DEMEN (Desa Menanam Pohon)to reduce arid conditions due to the large number of rice fields and lack of planting shady trees that can hold water. With the implementation of the DEMEN (Desa Menanam Pohon) program, it is hoped that it will be a role model for movement that brings the community to continue greening efforts to reduce the impact of global warming that is happening and hot weather in Terasbendung village. The activities carried out went smoothly by collaborating with steakholders who were strong and active in making the program a success.

Result and Discussion

Group 06 of the Thematic KKM of Sultan Ageng Tirtayasa University carried out afforestation activities to plant trees with community residents in the village hall, along the way and gave several trees to SD 1, SD 4 Terasbendung and the community. Terasbendung Village, Serang Regency, involving participants consisted of 30 community members along with a number of students who planted 90 trees. During the discussion about the role and function of plants in the surrounding community, both village officials and participants were very enthusiastic because of the desire of the participants or communities to use the land owned by more benefits as land greening.

The purpose of planting seedlings is as follows:

- 1. Building awareness, environmental knowledge, conservation of land resources.
- 2. Develop knowledge about the interaction of natural components (biotic and abiotic).
- 3. Reducing the impact of climate change.
- 4. Makes the village more shady.

1. Results of the Implementation of Service Activities

Implementation of service activities can be described through 2 (two) stages of activity, namely preparation and implementation. At the preparatory stage which is the planning of the service program, the following activities are carried out:

- 1. Coordination with the village where the service is located Coordination with the village is carried out with the Head of Terasbendung Village. The village strongly supports the service activities carried out by group 06 of the thematic KKM of Sultan Ageng Tirtayasa University in the context of land use to be more efficient in addition to optimizing ecological functions, as well as an added value for reducing global warming in the village.
- 2. Timing of planting implementation is based on an agreement with the Village Head and the community.

2. Results of demen (Village Planting Tree) Activities

The results of the implementation of DEMEN (Village Planting Tree) activities can be broadly seen based on the following components:

1. Success of the target number of community engagements

The success of the target number of participants/communities involved in this activity is very good. Of the 30 participants invited based on the direction of the Head of Terasbendung Village, all of them (100%) were able to attend the activity.

2. Achievement of training

The achievement of the objectives of the activity can be said to be good (80%). Namely, there is an increase in knowledge from participants about land use and the function of trees in reducing climate change.

 Abilities of the people involved in the mastery of the material The ability of the community in mastering the material can be said to be good (75%) this is possible because the delivery of the material is carried out in a simple way, namely by the method of demonstration activities.

Overall, greening activities around the Village Hall and along the way, Terasbendung Village, Serang Regency can be said to be good and successful, this can be measured from the four components above.

		Category		
No.	Evaluation	Sufficient	Good	Very Well
1	The suitability of service activities with community expectations			
2	Community cooperation with the community			\checkmark
3	Increased empowerment to the community		\checkmark	
4	Improving the socio-ecological knowledge of society		\checkmark	
5	The usefulness of the results of community service			

Table 1. The results of the evaluation of participant satisfaction during the activity.

From Table 1, it can be seen that the activities resulting from this community service are in accordance with community expectations, establishing good cooperation, empowering the community, increasing environmental knowledge, plant products can be utilized, and have economic value.

The following is a documentation of DEMEN (Desa Menanam Pohon) activities in Terasbendung Village:



Figure 1. Documentation of Demen's Program

Conclusion

Global warming is an issue that continues to resonate with all the problems in it. The handling of each country with fanfare without starting from small steps in society. A simple effort that can be made in dealing with heating is by planting trees. Not just planting trees but planting simple thoughts and educating the important role of trees for the environment. The movement of one tree for the world starting from the village will be able to develop into a massive movement for other areas as a pilot. With the increasing prevalence of this movement, it is not impossible to create a beautiful environment with coolness around the village to other surroundings of the earth, everything starts from small stages in the community.

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