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National Garden Clubs 2024 YOUTH ESSAY CONTEST
Is Recycling Plastics the Answer to Our Plastic Disposal Problem?

Innovative Solutions for Plastic Waste: From Pollution to Progress

The increasing concern of plastic regulation has defined the beginning of the twenty-first century and has remained unresolved. Plastics can be found across the world in almost every ecosystem, ranging from the most secluded ocean depths to the highest mountain tops, poisoning habitats and threatening various species. With a huge amount of plastic created every year, many people look to recycling as a potential option. But while recycling is important, it cannot deal with the problem of plastic trash alone. More competent approaches include reducing plastic manufacturing, proper waste disposal, and the establishment of eco-friendly substitutes will be required to tackle the menace of a task.

To begin with, the scale of plastic pollution must be recognized. As stated by the UN, approximately 400 million tons of plastic are manufactured on an annual basis, it needs to be noted that only a small portion of that complies with recycling. Most of it is disposed of on land or in the open sea where it is estimated to take several centuries to decompose. Plastic litter is known to disrupt animal life as plastic is often viewed as food, prompting consumption and entrapment. This greatly affects marine life as an estimated 10 million tons of plastic find their way to the oceans each year causing the “Great Pacific Garbage Patch.”

Recycling plastics appears to be an effective way to reduce plastic waste. The plastic could be collected, sorted, and turned into new products instead of left in useless dumps. However, plastic recycling has its own set of issues. First, not every type of plastic can be recycled. Plastics are produced from different materials and chemical structures that make it hard to recycle them together. Most plastic bags, straws, and food wrappers are non-recyclable and food contaminated. Thus, making them unrecyclable.

Recyclable plastics as only around 9% of plastic waste in the USA is recycled. Most of the waste is either buried in landfills or burned. Facilities offering recycling services face several challenges including contamination, infrastructural absence and very low demand for recycled materials.

Additionally, the recycling of plastics degrades their quality over distinct processes, which makes the recycled plastic lower than new plastic products

Nevertheless, recycling has its own limitations, which should not be relied upon too much. The focus should also be on reducing consumption of plastic which can be achieved by regulations that restrict usage of items like straws, bags, and bottles. Already, many countries are implementing such bans or applying a surcharge on single-use plastic items. Further, consumers can also do their part by minimizing their use of plastic items and using metal straws, cloth bags and glass containers instead.

Further, upgrading waste management systems is also crucial to make sure plastic waste is offered in a responsible manner and not introduced into landfills or the environment. Many countries lack the means or organization to be able to deliver an acceptable level of performance for plastic waste management. Helping in this case might include the introduction of appropriate technology for waste disposal, as well as educational campaigns that could drastically reduce plastic pollution.

Biodegradable alternatives to plastic that are also environmentally friendly is another viable solution. Some researchers are developing plastics that are environmentally friendly and degrade faster. For example, bioplastics that are made from cornstarch, a renewable resource, can decompose at a significantly faster rate than most petroleum-based plastics. Though these alternatives are not yet commercially accepted, they have great potential to reduce plastic consumption levels.

In summary, while recycling helps, tackling plastic waste is a larger challenge that extends beyond just recycling. To address this crisis, we must integrate recycling efforts, with measures to curb the production of plastic, and create other alternative materials. Only with a multi-dimensional approach can we hope to minimize plastic pollution and save our planet for the future.

