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Smart STEM Challenge

A CALL TO REVOLUTIONIZE PLASTIC RECYCLING IN CAMBODIA

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Abstract

This report is an introduction to revolutionize plastic recycling in Cambodia. According to the KHMERTIMES news, “ People in Cambodia’s capital city of Phnom Penh produce about 3,000 metric tons of solid waste every day.” and 17.3% of that happens to be a plastic waste. Because of the tremendous amount of plastic waste we use they tend to end up in landfills and result in plastic littering that will increase the rate of climate change. After a thorough analysis of quality online resources and content on the topic, we find a significantly efficient way to recycle plastic founded by Precious Plastic. The use of a machine and compressing plastic into thin sheets of plastic is an innovative way of plastic recycling which Cambodia can adopt to create a future with sustainable waste management as we progress towards industry 4.0. This machine can press up to 10 sheets per day and as it takes up 20 kg of plastic per sheet at this rate with only 5 machines, they can recycle up to 1 ton of plastic every day. Because of how effective this machine is, introducing it to Cambodia is key to recycling plastic and contributing to the planet's environment.

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