

MEMO

TO : International Council of Plastic Waste Management

FROM : TEAM#2002121

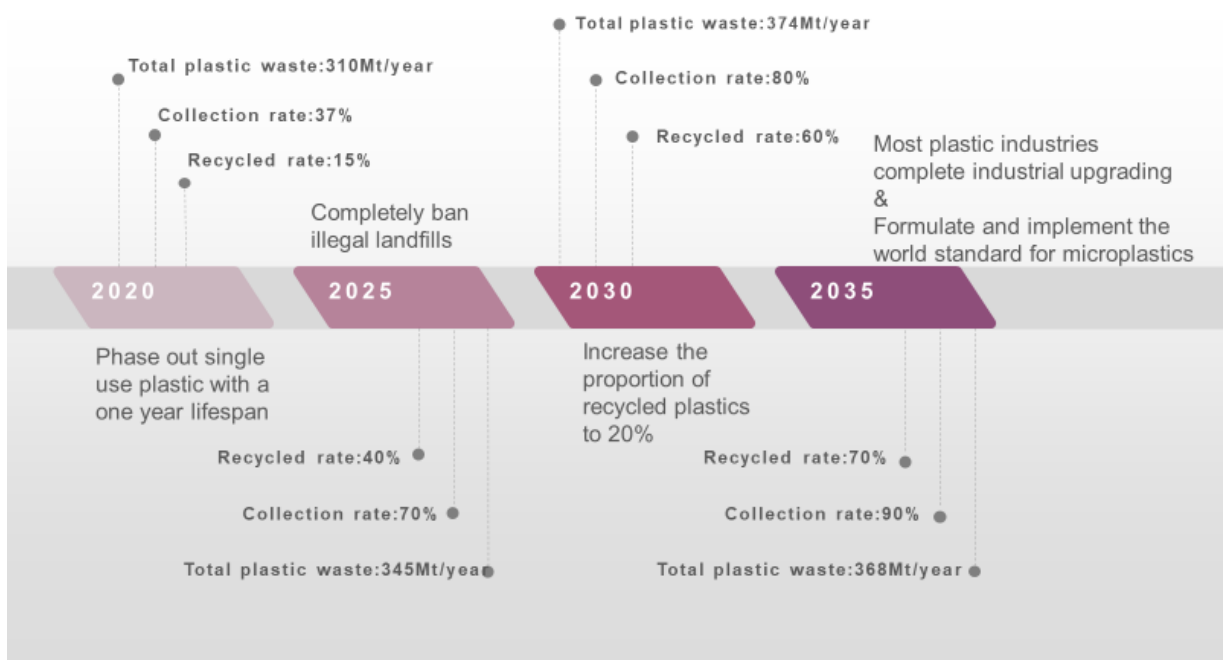
DATE : February 17, 2020

Subject : Description of our target and timeline

This memo is a short description of the results of our work and analysis based on our CPE Model and Multi-factor Analysis Model.

From 2020 to 2035, our target is to increase global waste collection rate to 90%, which is now available in EU and increase recycled rate (here “recycled” means been made into regenerated plastic) to 70%.

By following the measures timeline shown below, finally we will be able to achieve 360Mt for total plastic waste.



Next, we consider various circumstances that may accelerate or hinder the achievement of our target and timeline and make a list of them:

Promoting factor

- Successful development and use of new alternative materials.
- The 2020 Tokyo Olympics will use 45,000 kg of recycled plastic to make about 100 sets of podiums, this circumstances may actively promote the world's focus on plastic recycling.
- According to the estimate from a senior analyst at ICIS, the outbreak of COVID-19 may reduce China's demand for polyethylene (PE) by 1.5 million tons.
- China has issued an import ban on garbage in 2018, and many countries start to follow this action. This will encourage some exporting countries to optimize their own plastic waste disposal systems.

Blocking Factor

- New molding technologies such as super-shear plasticization, power ultrasonic plasticization, and micro-lamination technology are applied to plastic processing, which reduces the production cost of plastic products and may increase plastic production.
- The increasingly mature takeaway platform and the booming takeaway industry lead to a significant increase in the use of disposable plastic packaging boxes. And according to current data, this industry still develop at a high speed.
- 5G technology is becoming more and more mature, and the electronics industry may usher in a new round of vigorous development. The sales of electronic products may increase and the demand for plastics used for making shells will increase.

Yours sincerely

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