

School Recycling Plan proposal for Coconut Creek:

1. Seek to identify the teacher/ student organizer of the school through the principal/ designee.
2. Meet with the school groups to solicit their input and ask for them to take the helm.
3. Each school will have a different approach.
4. In the best scenario middle and high school students will drive this ongoing campaign. The high school students can gain community service hours.
5. My recommendation is to first present this to the environmental advisory board and with their support, jointly present our outline plan to the city commission.
6. We would then solicit some form of monetary reward for each school - one student per school - that is spearheading this effort.
7. Monetary rewards could be in the form of a scholarship, a treasury bond, etc.

Data needs to be collected to show the growth of usage moving forward. This could be part of our "City Green Plan Report" if it isn't already. Students could also engage the county commission to give their input (i.e.- glass processing known as cullet, etc.).

Below is a better explanation of the process:

CULLET'S MANY BENEFITS

When studying glass recycling, the first thing that becomes clear is that cullet is extremely useful. It provides many benefits to glass manufacturing.

First, cullet allows glass manufacturers to reduce their need for raw materials. The key ingredients used in glassmaking are sand (mainly silica, SiO_2), sodium carbonate (also known as soda ash, Na_2CO_3), and limestone (CaCO_3). One kilogram of cullet replaces 1.2 kg of raw materials, according to James V. Nordmeyer, vice president of global sustainability at Owens-Illinois, a major manufacturer of glass bottles and containers.

Cullet also helps manufacturers save on energy costs. For every 10% of cullet included in the glassmaking feed mixture, the energy needed to keep the furnace at temperatures high enough to generate molten glass falls by nearly 3%, Rue says. Running furnaces at lower temperatures extends furnace lives and reduces operating costs and, as a result, the price of the final glass products.

Basically, for every 6 metric tons of cullet used in manufacturing, glassmakers can cut 1 metric ton of CO_2 emissions. Please find more information below:

<https://resource-recycling.com/recycling/2019/08/20/large-cullet-end-user-coming-to-southeast/>