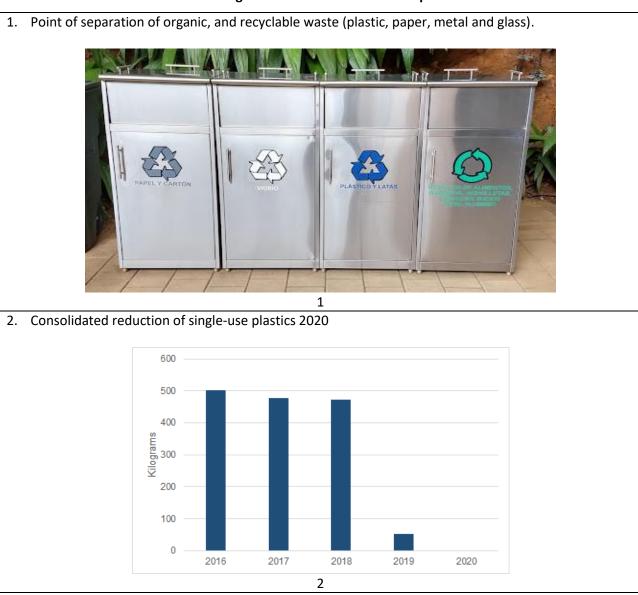


Program to Reduce Plastic in Campus







International recognition The 6th International Workshop on UI GreenMetric and the 3rd International Conference on Green University, Zanjan, Iran, September 2020.



Un compromiso con la excelencia

ZERO SINGLE-USE PLASTICS UNIVERSITY Tatiana Molina Velásquez Hernán Darío Giraldo



Abstract

Since 2017 CES University task action and jained forces with suppliers to work for sustainability. This is how the path to the implementation of the zero single-use plastics guidelines begins in order to restrict 100% the use of all single-use plastics at Campus and thus avoid the final disposal in sanitary landfills, resulting in contamination of water sources, high permanence in the environment, affectation to the found and flore, affectation to the monine life, etc., eliminating the generation of plastic waste through prevention, reduction, reduction, receiving

Universidad CES

Keywords: climate action, plastic, single use; sustainability, zero,

CES University a private and nonprofit higher education located at Medellin-Colombia became the first in the "Aburrá" Valley to say goodbye to cigarettos, PET bottles, disposable plates and cutlary, all of them considered single-use plastics, as a contribution to sustainability.

Since 2019 CES University took action and joined forces with suppliers to work for sustainability. This is how the path to the implementation of the zero single-use plastics guidelines begins in order to restrict 100% the use of all single-use plastics at Campus and thus avoid the final disposal in sanitary landfills, resulting in contamination of water sources, high permanence in the environment, affectation to the fauna and flana, affectation to the marine life, human health, among others; eliminating the generation of plastic waste through prevention, reduction, reuse and recycling.

These single-use plastic products were replaced by elements such as care bagasse and starch of corro among others, whose characteristics were biodegradable and compostable, in order to end the life cycle of these products transforming them into compast,

Audits are carried out permanently to verify the campus is free of these plastics, All accompanied by strong awareness and communication campaigns to different stakeholders.

Since the use of single-use plastic elements was banned, we managed to reduce the generation of these products by 89% (in 8 months). From 471.5 Kg in 2018 to 53 Kg in 2019.

With this practice, we contribute to:

 SDS 13 - goal 19,3: improve education and awareness regarding climate change mitigation, reduction of its effects and early warning. This contributes to the total greenhouse gas emissions reduction,

 SDB 12 - goal 12.4, achieving the ecologically sound management of waste throughout its life, also reducing its release to soil and water, in order to minimize adverse effects on human health and environment; in goal 12.5 reducing the generation of waste through prevention, reduction, recycling and reuse activities,

This practice is being replicated in more than 20 organizations countrywide,

Graphic 1: Quantity (Kg) of single-use plastics generated month to month, from 2016 to 2019.



All this together is reflected in the reduction of 11,432 Kg of CO2 in our carbon footprint scope 2, and the reduction of 45 tons in greenhouse gas (CHC) emissions.



Figure 1, Biodegradable and compostable elements Figure 2, Composting system

Concluding Remarks

Among the main conclusions that can be highlighted by the implementation of the initiative, are

· A study conducted by the World Wide Fund for Nature (WWF) in conjunction with the University of Newcostla, Australia indicates that on average a person can ingest, through water, air and feed, and depending on consumption habits, about 5 grams of plastic weekly, An amount that is equivalent to eating a credit card, Situation that we are not oblivious to, since drinking water and beverages may contain micro plastics (plastic particles measuring lass than 5 mm). The reduction of the generation of this type of plastics contributes directly to improving health issues, even more so in our country where, according to data provided by the Attorney General's Office, one million tons of plastic waste are generated in Colombia annually, of this total only 7% is recycled, the remaining 93% ends up accumulated in the sanitary landfills [6].

 Demystification in relation to the dependence of single-use plastics; it is possible to find alternatives to this type of elements,

· 85% reduction of single-use plastics, which was generated on the University Campus, between 2018 and 2019.

- Thanks to these guidelines, relationships and alliances were established with both regional and national suppliers, which provide environmentally friendly elements.

- Acceptance and appropriation of different interest groups, in relation to the restriction of single-use plastics,

- Opportunities to replicate and scale the practice, which contributes to the generation of culture. This is reflected in the great acceptance of the practice that will allow it to expand its impact to other organizations that join in its adoption: 08 universities, 5 universities in other regions, 1 school, Bovernments of municipalities in Calombia.



4. National Recognition Global Compact Red Colombia SDG 12. First university in the Metropolitan Area of Valle de Aburrá to implement guidelines for zero single-use plastics.



5. Socialization of single-use plastic guidelines, Council of Medellín

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Paper sheets	Paper reams	Tree felling	Consumption of electrical	Water consumption	CO2 emissions	Savings for reams not
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			(kWh)		CO2)	
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