# Georgia Scheller College Tech of Business

### Carbon Reduction at The Coca-Cola Company

By: Aiman Shahab Procurement Analyst Co-Op, Scheller College of Business 2020



#### **PROJECT SCOPE:** ISSUES AND SOLUTIONS: COOLERS & RECYCLING

#### During my co-op, I identified multiple areas for sustainabilitybased improvement to reduce costs and TCCC's carbon footprint, with a focus on the following two initiatives:

1.) Removing underused coolers from TCCC's campus in Atlanta. 2.) Increasing awareness to employees about how to recycle.



NAT Floor 3: cooler, vending machi water rack all offering Dasani plastic bottles





NAT 10:Waste bin: "Food Scraps Onlv/Landfill" & "Single-Stream Recycle'

#### Detailed how-to recycling sign: not placed near waste hins

Marketplace:

COOLERS:

- Issue: 1 cooler consumes ~697.15 kwH annually. AOC's stop & shop store, Marketplace, has 5 coolers with various beverages for purchase, some which have low selling numbers.
- Solution: Remove one cooler & consolidate the beverages based on sales without resulting in a revenue loss.

Total Carbon Savings: 697.15 kwH \* 1.68 lbs of CO2 = 1168.45 lbs Total Cost Savings: 697.15 kwH \* \$0.09 = \$62 74

#### North Avenue Towers:

- Issue: 1 countertop cooler consumes ~872.35 kwH annually, but has a 25-50% lower drink capacity.
- Solution: Remove the countertop cooler, still allowing for water bottle availability.

Total Annual Carbon Savings: 872.35 kwH \* 1.68 of CO2 = 1455.05 lbs

Total Annual Cost Savings: 872.35 kwH \* \$0.09/kwH = \$78.51



These carbon savings are equivalent to carbon held by .6 acres of a forest!

### **RECYCLING:**

· Coca-Cola reported an 81% recycling rate of which 43% were recoverable items (PPA,C&D).

• Issue: Inconsistent signage that contributes to

a lack of employee recycling engagement. Solution: Increase recoverable waste

recycling rate by 10%, thus increasing overall recycling to 91%.

	Current Status	Future Status (10% increase)
Ton inch of waste	1,896	1,896
Ton inch recycled	1,536 (81%)	1,725 (91%)
Ton inch of recoverable recyclables	660 (43%)	814 (53%)

Using the WARM model, by increasing recycling by 10% in one year (which could potentially be done through recycling initiatives), the extra 1.9 MM lbs of waste we would recycle would result in eliminating 901 CO2 per year.

## **RESULTS & FUTURE:**

During my internship, I worked on establishing a strong foundation for the next intern who decides to continue this project at Coca-Cola, including ideas, data, contacts, and test trial data. I have been able to work with the store manager of the Marketplace to discuss consolidating beverages in four coolers, as well as the Food & Beverage manager to remove the underused cooler from the NAT 3. Furthermore, I'm working with a sustainability manager to advocate for fixing inconsistencies in recycling information.

References: https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator1 https://www3.epa.gov/epawaste/conserve/tools/warm/Warm Form.html https://www.cokesolutions.com/equipment/coolers

Contacts: PJ Newcomb, Tomas Ambrosseti, Chris Morris