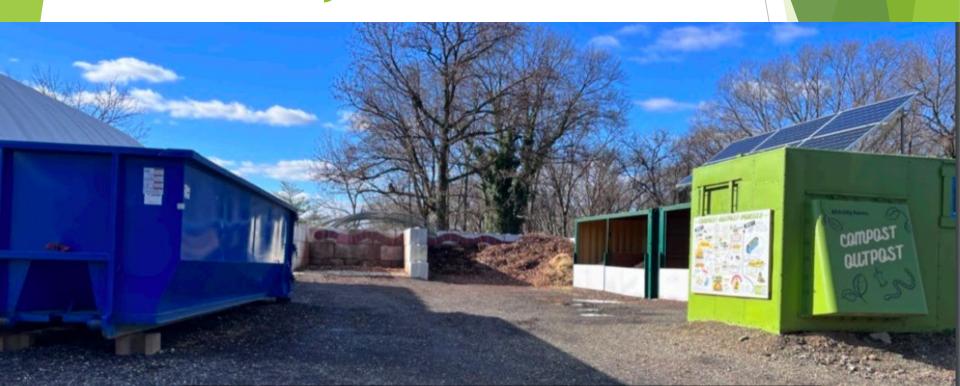
Compost Outpost at ECO City Farms



Background

- Recipient of EPA Region 3 Enhanced Composting Infrastructure for a Healthier Environment Grant in 2021
- Collaboration between Prince George's County Soil Conservation District (PGSCD), Institute for Local Self-Reliance (ILSR), Compost Crew and ECO City Farms
- Site has been operational since September 2022











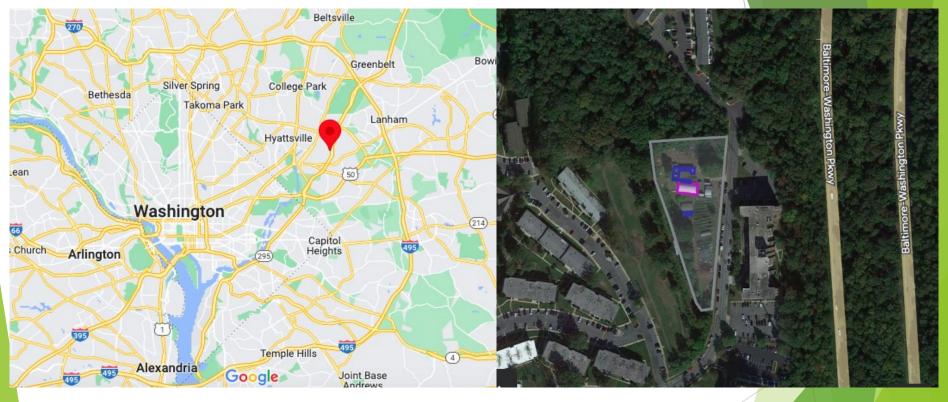
On-farm Composting

- Under Maryland state regulation, a composting operation that takes up less than 10,000 square feet of space is exempt from obtaining a composting facility permit
- In order to meet food waste reduction goals, different types of composting infrastructure will be required
- On-farm composting combines meeting food scrap diversion goals with enhancing soil health









Farm is 3 miles from DC border. Inside Capital Beltway

Located on 2.5 acres of urban environment surrounded by residential housing





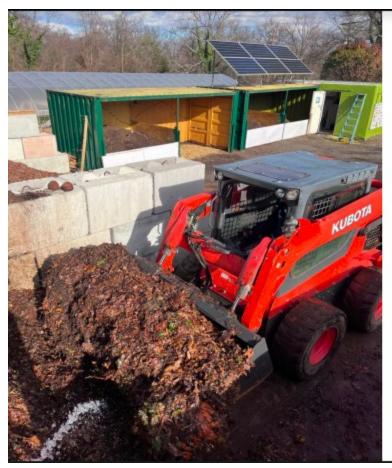


Every week, food scraps from 250 residential households in the area are brought to Compost Outpost



Garbage, compostable plastics, paper products and other items deemed non-desirable for on-farm composting are removed from pile during decontamination process





Loading the containers.

Homogenous mix of food scraps, leaves and wood chips that have been thoroughly decontaminated and hydrated are loaded into the bay inside the shipping containers

The compost pile sits inside the bays for 4 weeks where temperatures reach 150 degrees at their peak



In lieu of labor intensive turning of compost, piles are aerated at regular intervals by solar powered blowers



No grid electricity at the site!

Solar set up includes:

- (6) 300 watt panels
- Off grid inverter/charge control
- (4) 12 volt batteries (in parallel)
- Irrigation timer
- Enough capacity to turn 1 blower on for 20 min
- Plus capacity for charging power tool batteries power tools and other low wattage appliances (when sufficient sun)







Smaller portion (5-10%) is fed to worms to make vermicast which we use in our nursery seed starting mix

Data Collection



Data gathering



CO2 and Temperatures



Bulk Density



Finished compost applied to our fields this spring

Lessons learned

- Construction
- Unforeseen equipment costs
- Economics of ongoing operations

Next Steps

- Recipient of USDA Composting and Food Waste Reduction grant in partnership with Compost Crew and the Town of Edmonston
- For a new Compost Outpost at Eco Incubator Farm in Upper Marlboro, MD







Thank you!

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