Compost Outpost Virtual Tour

Eco City Farms - Bladensburg Compost Crew is also a partner in the operation of this site.





Part 1: Building the Compost Outpost

Preparing the site for the compost outpost

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We used asphalt milling to level the site

The containers arrived at the site



The shipping containers were modified to accommodate composting

The containers were painted for aesthetics and protection



We used bean blocks for the concrete pad walls and storage area



The bean blocks define a space for mixing food waste, leaves, and woodchips prior to aeration in the shipping containers



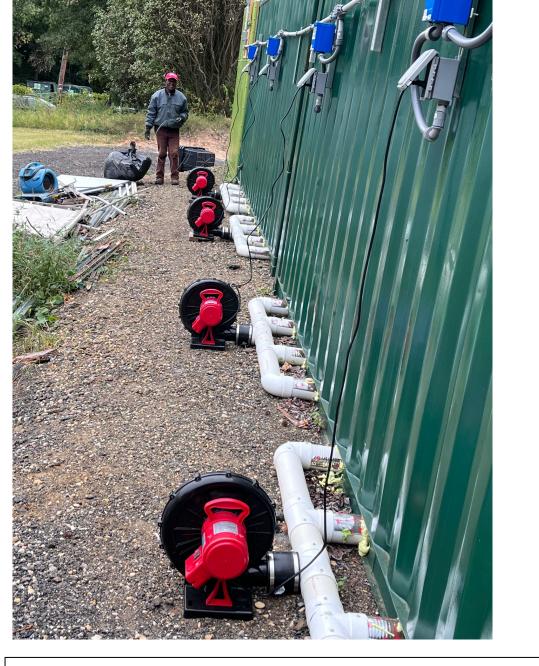
A six-panel solar array was affixed to the roof of the shipping containers



The output of the six solar panels are combined in a box at the back of the array



In lieu of labor intensive turning of the compost, we installed 4 solar powered air manifolds underneath the shipping containers for compost aeration



The blowers and their associated electronics





A RainBird timer is used to control the 1 hp blowers that push air into the piles Part 2: Utilization of the Outpost for producing compost

Concrete Pad - Mixing Area

- Food scraps from local residential households are brought directly to a concrete mixing pad where they are inspected.
- All plastic objects (including compostable plastics) are removed.
- Once material is thoroughly decontaminated it is mixed with <u>carbon rich material</u> (leaves and wood chips).
- The entire mix is watered during this process to ensure ~60% moisture content in pile



Before





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

After four weeks in the shipping containers, compost is moved to a roll-off container for further decomposition



We monitor CO₂ and temperature









The compost outpost occupies 5000 square feet

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