Harvest Power Orlando

Organic Energy Unleashed – An Innovative Solution

Located within the Reedy Creek Industrial District, the facility is engineered to co-digest biosolids with food wastes from local businesses. Specialized pre-processing equipment allows the facility to accept food waste with packaging. Clean energy is fed into the electricity grid and natural fertilizers are spread locally. Partners include tourist and resort locations as well as restaurants, grocery stores, hotels, sports arenas, golf courses and the agriculture community.

Our Mission

Using environmentally sustainable practices, we convert organics – those that have historically been landfilled or otherwise disposed of – into energy and other beneficial products.

Organics Diversion & Waste Solutions

We partner with communities and the waste industry to solve problems and help achieve sustainability in waste utilization, clean energy innovation, and soil revitalization.

Plant Design

Features & Capabilities

Capacity: 130,000 tons/yr waste throughput

Energy Output: 3.2 MW combined

Produce Output: 5,000 metric tons/yr granular fertilizer

Technologies: Continuously Stirred Tank Reactor (CSTR) – low solids

Feedstock:

- pre-consumer food waste recycling
- source separated organic (SSO) food waste from industrial, commercial and institutional sources including local theme parks, hotels, restaurants, and food processors
- de-packaged food and juices (pallets, drums and totes)
- bulk liquids
- juice
- fats, oils, and greases (FOG)
- glycerin
- bio-solids/TWAS

Plant Design

Features & Capabilities

- Capable of processing up to 130,000 tons of mixed organic waste, per year.
- The plant is also using a cutting-edge sludge destruction technology for increased volatile solids (VS) removal.
- The facility produces ~22,000 cubic meters of biogas on average per day and the biogas is fed into the 3.2 MW electrical combined heat-and-power unit.
- End use: The biogas is primarily being used to produce electricity for internal use and for sale; the high temperature heat from the combined heat and power (CHP) unit is used for indirect drying of digestate with thermal oil, and hot water is used for process heating.
- Reedy Creek Improvement District is buying the electricity, enough to power the entire 20MGD wastewater treatment plant.
- Additional byproducts include the production of a Class AA granular fertilizer.
- Environmental and economic benefits include multiple partners. For example:
    - the local organic waste generators have increased recycling options at a steady cost,
    - the local municipality has use of this innovative treatment of the liquid fraction of the digestate with the Demon annamox system to convert ammonia into nitrogen gas, e.g. air, and
    - the local community diverting organics from the landfill and increasing capture of recycles such as metals and plastic during repackaging.

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