ORGANICS TRANSFER STATIONS

BioEnergy DevCo is interested in investing in and partnering with counties or cities to add organic waste collection and pre-processing to existing transfer stations. These organics transfer stations would accept and depackage pre- and post-consumer food waste and co-mingle the clean food waste slurry into a tank truck that would then be transported to a nearby anaerobic digestion facility.

Organics transfer stations allow for jurisdiction to offer food waste collection and disposal in their jurisdiction on a small footprint and minimal upfront cost. If, over time, the demand for food waste disposal expands past certain thresholds, BioEnergy DevCo would further invest to construct and operate a new anaerobic digestion facility in that jurisdiction.

**LAYOUT AND OPERATIONS**
ORGANICS TRANSFER STATIONS
COST AND BENEFITS

SCENARIO 1

Waste Hauled Directly to AD Facility
Without Transfer Station

Example: A grocery store has 8 tons of food scraps picked up per week, collected in a compactor, picked up and hauled with a roll-off truck. The truck travels directly from the grocery store to the AD facility, and then returns with the empty compactor.

SCENARIO 2

Waste Consolidated and Transferred
to AD Facility

Example: The same grocery store has their organic waste picked up in the same compactor, but goes a shorter distance to a transfer station. Once there, it is depackaged and commingled with other organic waste, where it travels in a tractor trailer with a 20 ton capacity directly to the AD facility.

COST BENEFITS TO BUSINESS

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance Traveled</td>
<td>Grocery Store to AD Facility: 30 miles</td>
<td>Grocery Store to Transfer Station: 5 miles</td>
</tr>
<tr>
<td>Transportation Costs</td>
<td>$25/ton</td>
<td>$10/ton</td>
</tr>
<tr>
<td>Disposal Costs</td>
<td>$60/ton at AD Facility</td>
<td>$60/ton at Transfer Station</td>
</tr>
<tr>
<td>Total Cost to Grocery Store</td>
<td>$85/ton</td>
<td>$70/ton</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL BENEFITS TO COMMUNITY

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Scenario 1</th>
<th>Scenario 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles Driven Per Ton</td>
<td>Direct to AD Facility: 50 miles driven / 8 tons per truck = 3.75 miles driven for every ton of organics</td>
<td>To transfer station: 5 miles / 8 tons = .625 miles From Transfer Station to AD Facility: 25 miles / 20 tons = 1.25 miles Total: .625 + 1.25 = 1.875 miles driven for every ton of organics</td>
</tr>
<tr>
<td>CO₂ Emitted</td>
<td>411 grams CO₂ per mile X 3.75 miles driven per ton = 1,541 grams of CO₂ emitted per ton hauled</td>
<td>411 grams CO₂ per mile X 1.875 miles driven per ton = 770 grams of CO₂ emitted per ton hauled</td>
</tr>
</tbody>
</table>

CONTACT:
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RENEWABLE ENERGY, HEALTHY SOILS

WHO WE ARE

Bioenergy Devco is a world leader in the finance, design, construction, engineering, and operation of anaerobic digestion facilities. Through its wholly owned subsidiary BTS Biogas, BDC can insure and guarantee facility performance of its more than 220 facilities worldwide. By seeing challenges as opportunities, BDC uses anaerobic digestion as an environmentally sound means of creating a true source of renewable energy while processing organic wastes and reducing air, water, and soil pollution in local communities. Based in Howard County, MD, BDC is currently developing four facilities in the United States.

Together, BTS Biogas and BDC lead the development, finance, design, construction and operation of anaerobic digestion facilities throughout the world.

ABOUT ANAEROBIC DIGESTION

Anaerobic digestion is a powerful technology that breaks down excess organic waste materials into renewable natural gas (RNG) and an organic soil amendment. BDC is focused on developing digesters for the emerging markets of processing and recycling food waste, fats and oils, and agricultural wastes.

### Organic Waste
- Source separated organics
- Packaged food
- Produced processing culls
- Food processing waste
- Fats, oils, and grease
- Animal manures
- Animal processing waste

### Anaerobic Digestion Facility
- Organic waste fermented in large cylindrical tanks
- Waste diversion from landfills and incinerators
- Cost-effective and sustainable

### Renewable Energy
- Power purchase agreements
- Cogeneration/combined heat and power
- Renewable natural gas into pipeline
- Compressed RNG for fleet vehicles

### Organic Soil Amendment
- Land applied
- Dewatered
- Dried
- Pelletized
- Nutrient stripped
OUR FACILITIES

MARYLAND FOOD CENTER AUTHORITY
JESSUP, MD

Feedstocks: 110,000 tons/year of food waste, FOG, and dairy DAF
CI Score: (46.07)
Gas Production: 295,000 mmBTU/year
Target Operation Date: Q3 2021

About: Owned and operated anaerobic digester in the heart of Maryland’s food processing with tenants that include Del Monte, Nestle, Coastal Sunbelt, and MFCA.

BIOENERGY INNOVATION CENTER
SEAFORD, DE

Feedstocks: 200,000 tons/year of poultry DAF, waste activated sludge, and hatchery waste
CI Score: -(40)
Gas Production: 415,000 mmBTU/year
Target Operation Date: Q2 2021

About: Owned and operated anaerobic digester in the center of the poultry industry on the Delmarva that facilitates the transportation of chicken process (DAF waste).

WHY ANAEROBIC DIGESTION?

• AD is a sustainable means of managing a variety of organic wastes by recycling it into valuable products instead of landfills or incinerating.

• AD facilities produce digestate, an organic soil amendment with multiple horticultural beneficial uses. Soils amended with digestate absorb and retain more water, reducing the effects of drought and stormwater.

• The biomethane, or RNG, that is generated at an AD facility can replace natural gas.

• AD facilities are important suppliers of renewable energy, aiding our transition from fossil fuels and making resilient, self-reliant businesses, campuses, and communities.

• Using digestate in landscapes sequesters carbon into soil, thus removing carbon dioxide from our atmosphere and making AD carbon negative.

BDC IN THE NEWS

Bioenergy Devco and Chesapeake Utilities Corporation Partner To Bring Renewable Natural Gas to Customers on the Delmarva Peninsula
Read More: bit.ly/bdcccupartner

Bioenergy Devco to Purchase Perdue AgriRecycle Organic Soil Composting Facility in Delaware
Read More: bit.ly/bdcpereud

Bioenergy Devco Announces $106 Million Investment From Newlight Partners LP to Grow Anaerobic Digestion Technology Use Throughout North America
Read More: bit.ly/bdconewlight

Bioenergy Devco Buys BTS Biogas to Expand Anaerobic Digestion Technology Globally
Read More: bit.ly/bdcbtbspress

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