



TOP PROJECT
Environment
+ Energy
LEADER
AWARDS
2023

 **BIOENERGYDEVCO**

Accelerating zero waste. Tackling climate change.



ABOUT US

Bioenergy Devco (BDC), is a pioneer in the US as we bring the development of commercial-scale anaerobic digestion to the US. With our European sister company, BTS Biogas, we bring 25 years' experience in the field of anaerobic digestion. BDC is a world leader in the finance, design, construction, engineering and operation of anaerobic digestion facilities.

We have built **250 plants** worldwide on **4 continents**, operate **150**, obtained **29 international patents** and perform **170,000 + microbial tests** yearly carried out through our proprietary lab.

At BDC, our DNA is green. We are dedicated to bringing benefits to the environment and facilitating the circular economy as we transform organic waste materials into clean energy and organic fertilizer.



BENEFITS OF PARTNERING WITH BTS BIOENERGY



Proximity to our digesters reduces transportation costs



Stabilize disposal costs with fees held constant through the lifetime of your contract



State-of-the-art depackaging equipment



Compliance with waste legislation



ESG reporting to help meet your sustainability goals



Meet consumer demand for sustainability



Lab testing, monitoring and nutrient management support from a dedicated microbiology lab



24 years experience with 250 Anaerobic Digester installations around the globe



BY THE NUMBERS

Food waste sent to incinerators, landfills, or land applied is a significant contributor to climate change and has become a global and local climate emergency.

If food waste were a country, it would be the third largest GHG emitting country in the world

1.3 billion

Tons of global food waste every year

167 million

Tons of global food waste in the USA every year

We are excited to be in the forefront of renewable energy as America takes the pledge to reduce **40% of our carbon emissions by 2030**.

Our Maryland commercial-scale AD facility generates 340,000 MMBtu of renewable energy and prevents the release of Carbon Dioxide (CO₂-eq) equivalent of:

7,697

US households' annual electricity

12,574

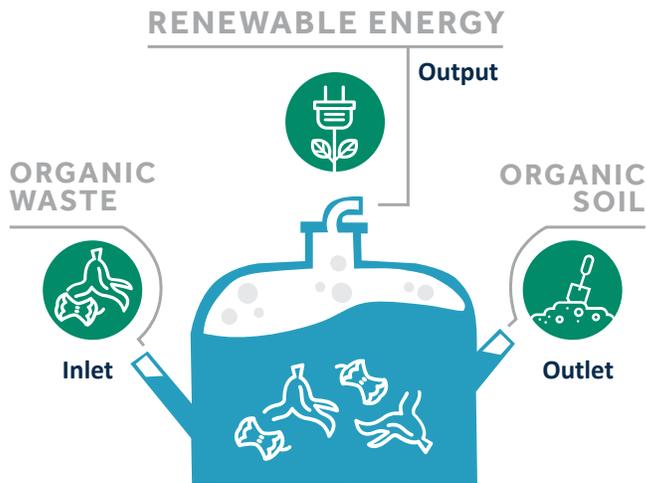
Gasoline powered cars taken off the road for a year

82

A forest area 82x times of Central Park (Decarbonization impact)

606

Times to the distance from Earth to the Moon by car



Anaerobic Digester

- » Organics are fermented in large cylindrical tanks
- » Organics diversion from landfills, incinerators and land application
- » Cost-effective and sustainable

ORGANIC WASTE

- » Source separated organics
- » Packaged food
- » Produce processing culls
- » Food processing residuals
- » Fats, oils, and greases
- » Animal manures

RENEWABLE ENERGY

- » Renewable electricity
- » Co-generation /combined heat & power
- » Renewable natural gas into pipeline
- » Compressed RNG for fleet vehicles
- » Green hydrogen

ORGANIC SOIL

- » Nutrient-rich amendment, similar to compost for agriculture and horticulture uses
- » Options to dewater, dried, palletized nutrient

ABOUT ANAEROBIC DIGESTION

Cleaner Air, Water & Soil

Anaerobic Digestion is a means to manage various organic waste streams from food manufacturers, the protein industry and farmers. It's an environmentally sound way to create renewable energy while reducing air, water and soil pollution in local communities. Anaerobic digestion:

- » Reduces greenhouse gas emissions by diverting organic waste from landfills and incineration;
- » Produces clean energy to reduce our consumption of fossil fuels;
- » Creates nutrient rich soil amendments that reduce the need for synthetic fertilizers
- » Advances business and government net-zero and decarbonization goals, while creating green jobs.

SUSTAINABILITY REPORTS FOR YOUR ESG & DECARBONIZATION GOALS

Our sustainability reports detail the emissions avoidance associated with each organic waste (feedstock) source's contribution to the diversion of waste to our anaerobic digester. By supplying our customers with this mitigation information, they can then report on their decarbonization and ESG goals.

Avoided emissions are calculated using our in-house Life Cycle Assessment (LCA) methodology

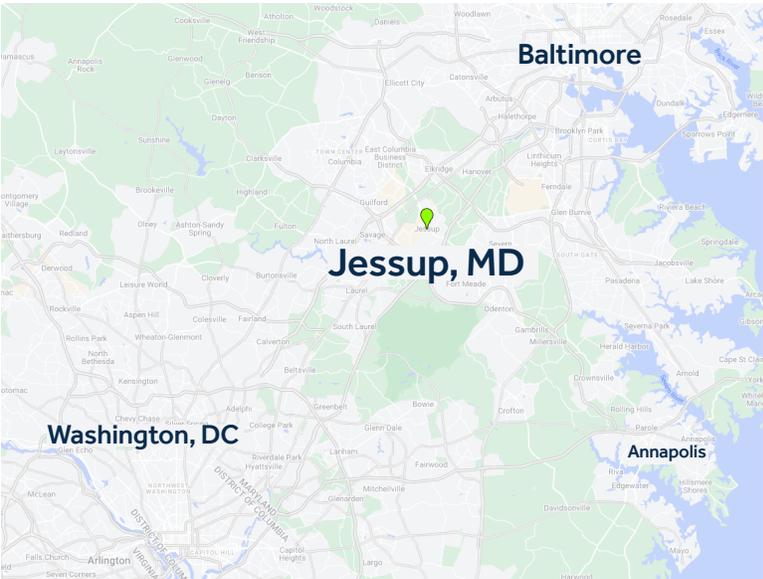


- » This LCA quantifies the entire spectrum of greenhouse gases (CO₂-eq) including avoided emissions for the whole life cycle of the project.
- » We then isolate each feedstock provider's proportionate contribution to the project's emissions avoidance.
- » That contribution's metrics (see Case Study below) are then broken out in a tailored fashion to align with your sustainability reporting structure.
- » In many cases, there is also a negative impact to the local soil and watershed resulting from current waste-handling practices, such as land application.
- » The diversion of material to the digester produces a soil conditioner that promotes the overall soil health and minimizes runoff from land-applied raw material.
- » The resulting positive effect on the overall health of the soil and watershed associated with this diversion can also be included in the sustainability report.

MARYLAND BIOENERGY CENTER - JESSUP

Maryland Bioenergy Center is Maryland's premier organics recycling facility. Centrally located in the Maryland Food Center in Jessup the facility is less than 30 miles from all of Baltimore and Washington, DC. Within this facility, excess organics produced by the region's food manufacturers and retailers are transformed into renewable energy and fertile soil amendments.

This remarkable transformation both decarbonizes Maryland's waste and energy sectors, enabling our businesses and communities to prepare for a healthy and sustainable future.



FACILITY SPECIFICATION FEEDSTOCKS

110,000 tons/year of solid and liquid food residuals and packaged food waste

ENERGY PRODUCTION

340,000 mmBTU/year (RNG)

DIGESTATE PRODUCTION

16,575 tons/year for soil blending



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