



# BIOENERGY DEVCO

renewable energy,  
healthy soils



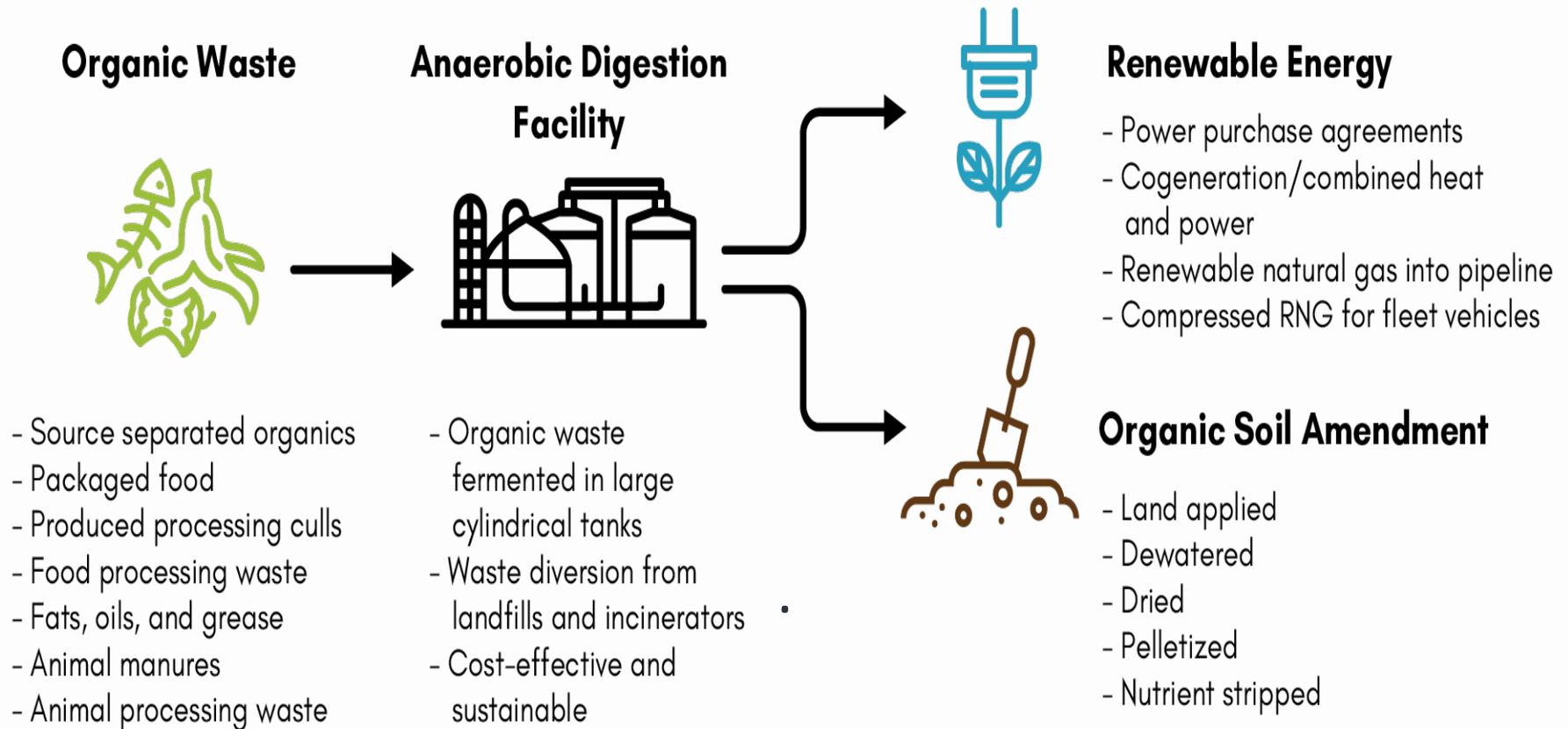
**Anaerobic Digestion and  
Renewable Energy Solutions  
aka  
Having Your Cake and Eating it Too**

# A World Wide Leader in the Finance, Design, Build, and Operations of Anaerobic Digestors

- **220 + modular biogas plants in Europe, the UK and Japan - rated energy capacity, 250,000 MMBtu +**
- **Proprietary & patented equipment,**
- **Dedicated microbiology laboratory with 22 years of performance data,**
- **Guaranteed and insured facility performance injecting in 3 international grids**



# A Powerful All Natural Technology



# Delaware's Economic Powerhouse Poultry & Agriculture



<b>Pro's</b>	<b>Cons</b>
<ul style="list-style-type: none"><li>• A \$3.4 billion + (wholesale value) industry</li></ul>	<ul style="list-style-type: none"><li>• Waste management: compost, incineration and landfill challenges</li></ul>
<ul style="list-style-type: none"><li>• 20,425 direct jobs earning \$784 million in wages</li></ul>	<ul style="list-style-type: none"><li>• Nimby: Changing demographics and arable land</li></ul>
<ul style="list-style-type: none"><li>• 1,300 plus chicken growers, 244 million pounds of chickens, thousands of delivery trucks</li></ul>	<ul style="list-style-type: none"><li>• Excess nutrients, land application restrictions, transport and pollution</li></ul>
<ul style="list-style-type: none"><li>• 1.1 billion spent on feed</li></ul>	<ul style="list-style-type: none"><li>• He Said/She said</li></ul>

# Reframing the Discussion through Anaerobic Digestion

Transforming these commodities into truly sustainable energy products allows you to reach the State's 25% renewable energy goals  
Ensuring sustainable economic development.

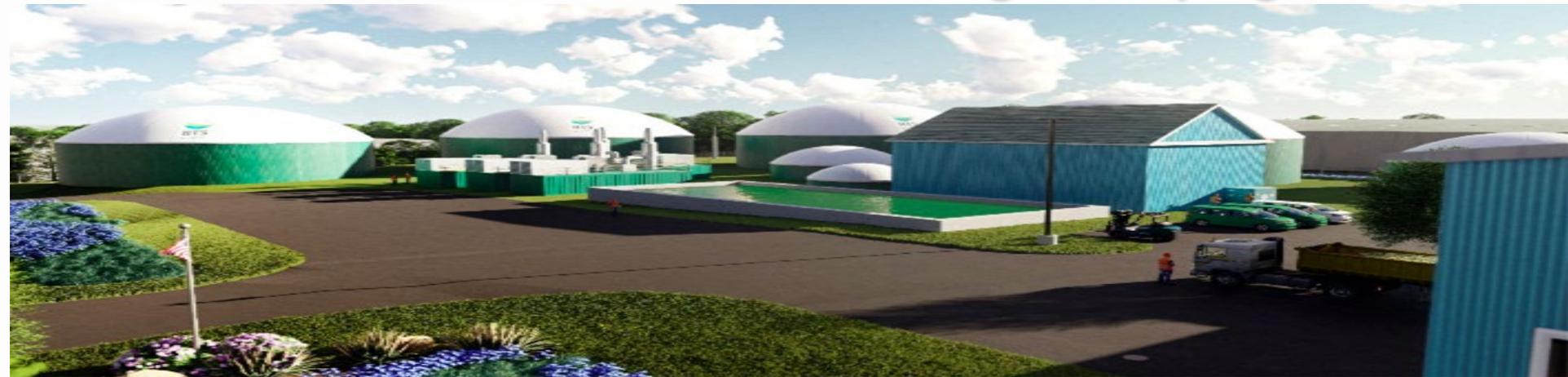


# Typical Plant 70,000 ton DAF, Poultry and Food wastes

- Creates an estimated 175,000 MMBTU's plus of renewable natural gas (RNG)

- Compressed natural gas (CNG) for transport,

- A nutrient rich organic soil amendment that can be land applied within the PMT and nutrient management program



# Renewable Natural Gas (RNG) pipeline-quality biomethane produced from biomass.

- Carbon neutral,
- Extremely versatile and
- Fully compatible with the U.S. pipeline infrastructure.

## Uses:

- Homes for heating,
- Agriculture in boiler heat and electricity,
- Manufacturing and heavy industries,
  - As a transportation fuel .



# Making a Choice

- **Development companies without a history of well qualified technology are betting on the come.**
- **If the goal is production of *consistent* renewable natural gas: *consistent* feed stocks are key,**
- **Ensure that the AD provider has a deep knowledge of microbiology as not all bugs are made equal and co-digestion a real opportunity**



# Making a Choice

- **Make sure the AD is sized right - - bigger is not necessarily better. Modularity in construction is key - - with a thorough background and support of the local community,**
- **Make sure that provider can insure and warranty gas production, minimizing your risk while maximizing your gain,**
- **Look at standard interconnection agreements where you are authorized to contract for and purchase RNG.**



# Be a Renewable Leader

- **Become a solutions provider,**
- **Set criteria for working together,**
- **Demand experience - - deliver, insure and guarantee performance,**
- **Take on gas cleaning and distribution,**
- **Don't let your size get in the way of embracing renewable natural gas.**



# And Finally

**You have the ability to economically address Environmental Justice concerns while bringing truly Renewable Natural Gas solutions to your customers.**

**Enabling sustainable energy solutions for the State, County and Region.**

