

Anaerobic Digestion Project Supreme Industries – Southington, CT

Supreme Industries

Hard Work · Embrace Innovation · Lead Change · Honesty · Being Pioneers



- 32 year old, privately held, family run business
- Embrace the principles of beneficial reuse
- Land clearing and civil site work
- Right of Way work for Electrical Distribution Companies
- Work performed throughout the Northeast,
 Ohio to West Virginia
- Private and commercial site work for residential and municipalities



Supreme Forest Products

Operates on two sites in the State - Harwinton & Southington, CT



- SFP reuses, and distributes the myriad of products we create:
 - Compost
 - Mulch
 - Soils
 - Playground Fiber
 - Special lumber products
- Manage and distribute 250,000 yards of material every year



Quantum Biopower

Developing and operating the Anaerobic Digestion Facility in Southington , CT



Goals & Diligence

- Develop the model of what good organics management and renewable energy production looks like
- Replicate that model where it make sense in the region
- 4 years of diligence; 10 different technologies Europe & across the U.S.
- Decided on a technology from the Mid-West

Project Update

- Operating on 65 acres of land in Southington, CT
- General permit to store wood fiber products
- Leasing half of the DePaolo dr. landfill Taking in town leaves at no cost
- Submitted a SW/AD application to State DEEP
- Filing for applications for Air Permit and Wastewater
- Once permitting is granted, construction can commence

Technology

Developing the operation of a "wet" Anaerobic Digestion system with a 40,000 TPY permitted capacity

3 "legs of a stool" approach

- 1. Incoming Organics
- 2. Energy Off Take
- 3. Co-Products Management



Decision Tree

- Feedstock flexible
- Proven & domesticated technology
- Scalability capacity to run at minimal/maximal conditions
- Closed loop, continuous system design
- Cost
- Efficiency



Impact of Legislation

The impact of PA 11-217 & PA 13-285 on our decision making process

3 "legs of a stool" approach

- 1. Incoming Organics
- 2. Energy Off Take
- 3. Co-Products Management



Impact of Legislation

- True partnership is established
- Impacted all 3 critical success factors
- Solidified our decision on geography
- Keep green material fraction in current process
- Biogas production is maximized
- Resulting energy off take improves

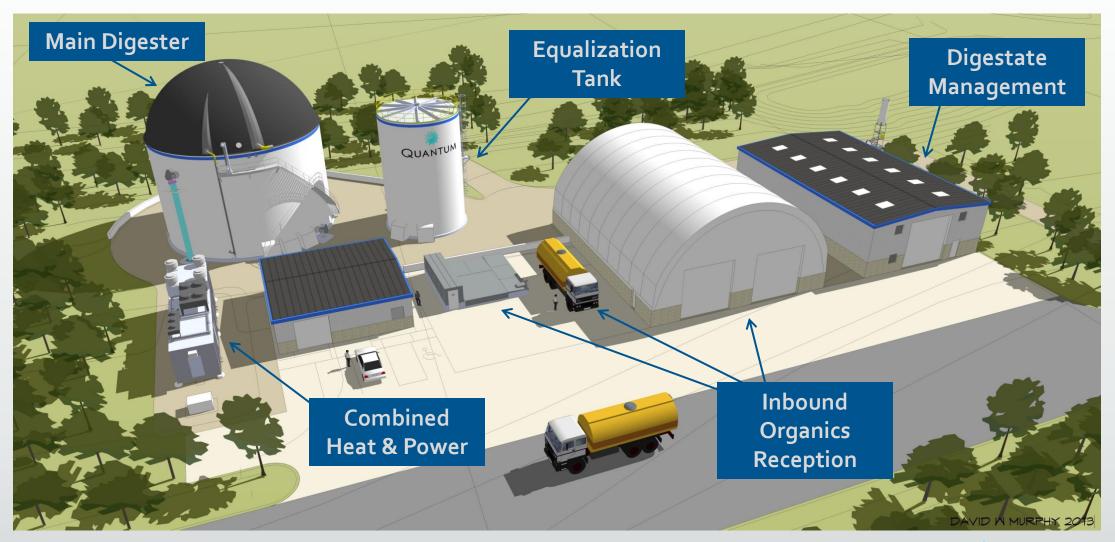


System Design





Southington AD Facility





Thank You!

