US Eco-Industrial Park/Development Networking Event
Deven, MA
ReVenture Park, Charlotte NC
About ReVenture Park

• During the financial crisis, recognized the emergence of the ‘clean energy economy’ and the growing support for sustainability-related services

• Acquired a 667-acre former textile dye plant that was listed as a Superfund site

• Existing infrastructure ideal for renewable energy project development

• Potential to unlock a variety of non-traditional value creation opportunities

• One of the largest Eco-Industrial Park’s currently being developed in the U.S.
Master Plan

• ReVenture Park is becoming a national model for transforming the rusty relics of our manufacturing and industrial past into thriving Eco-Industrial Parks
• The EPA estimates there are 15 million acres of similarly situated sites in the U.S.
Eco-District Master Plan

An additional 578 acres that wraps the site will include a mix of residential, retail, office and industrial space.

The Eco-District vision is to create a community where sustainability is ingrained into people’s lifestyles and is part of the fabric of the community.
Making ReVenture Economically Viable

- Secured special legislation (SB886) which included a 3x REC multiplier for the first 20 MWs developed on the site
- Worked extensively with EPA Region 4 and HQ to have the property delisted from Superfund
- Final stages of a Brownfield agreement with NCDENR
- Conservation Easement Tax Credits
- Monetizing existing waste water permit nutrient allocation ($6MM)
- Selling 185 acres to the City of Charlotte for a new $200MM WWTP
- Selective demolition to capture metal commodity value
- Sale of excess chemical process equipment and specialized tanks
- PPA signed to support development of 4.5MW biomass plant, economically viable due to SB 886
- Executing leases on existing buildings
ReVenture Park

Current Clean Energy Projects

• 4.5 MW biomass combined heat and power plant (CHP)
• Algae transportation fuel R&D
• Industrial recycling process
• Biomass fuel processing
• Cold storage (waste heat utilization)
• Anaerobic digestion power project
• Energy crop growth on marginal unused land
• Algae biomass fuel R&D
• 5.4 MW solar project
• Multiple recycling projects
• Indoor in-vessel composting
Multiple Closed Loop Opportunities

**Recycling MRF’s**
*Lead Project on Every EIP*
- Relates Directly to Feedstock Procurement
- Single Stream
- Plastics Recycling
- C&D Recycling
- Industrial by Products
- Glass Recycling

**Anaerobic Digestion**

**Bio Gas Injection**

**Fuel Cells**

**Electricity / Heat (CHP)**

**Feedstock Procurement**
*Enables Other Projects*
- Tip Fee Arbitrage
- Solid Waste Permits
- MSW
- Industrial Wastes
- Recyclable Material
- Bi Products
- Food Waste

**Composting**
- Food Waste
- Animal Waste
- Mulch
- In-vessel
- Wind rows

**WTE**
- Biomass
- New Technology?
- RDF
- Engineered Fuels

**Alternative Fuel Production**
- Biomass Processing
- Engineered Fuels
- Torrefied Wood
- Wood Pellets
- Alternate Transportation Fuels
- Algae
- RDF Production
- Waste Plastics to Oil

**Third Party Projects that can use Heat Energy or Fuels**
- Companies Attracted to the Synergies of an EIP

**Solar**

**Wind**

**Energy Storage**