

TLA-Bale Tech LLC

A subsidiary of TransLoad America Inc.



Summary overview of proprietary owned and patented baling technology belonging to TLA- Bale Tech LLC, a wholly owned subsidiary of TransLoad America Inc.

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Introduction to Baling

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Features and Benefits

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Enhanced Technologies

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The Next Frontier



- TransLoad America Inc. was started in 2002
- Waste by rail from transfer stations to disposal operations
 - C&D capability with gondola cars
 - MSW capability using same assets
- Cost drivers
 - Control over rail pricing
 - Maximizing payloads
 - Back haul capability
- Technology advantage
 - C&D processing
 - MSW packaging and densification



- TransLoad looked for technology met the criteria
 - Capable of handling MSW
 - Proven
 - Simple
 - Cost competitive
- Reviewed industry standards
 - Single and double ram balers
 - Straps vs. netting
 - Wrapping technology
- Problems
 - Ram slop
 - Maintenance
 - Leachate pocketing
 - Uneven wrapping



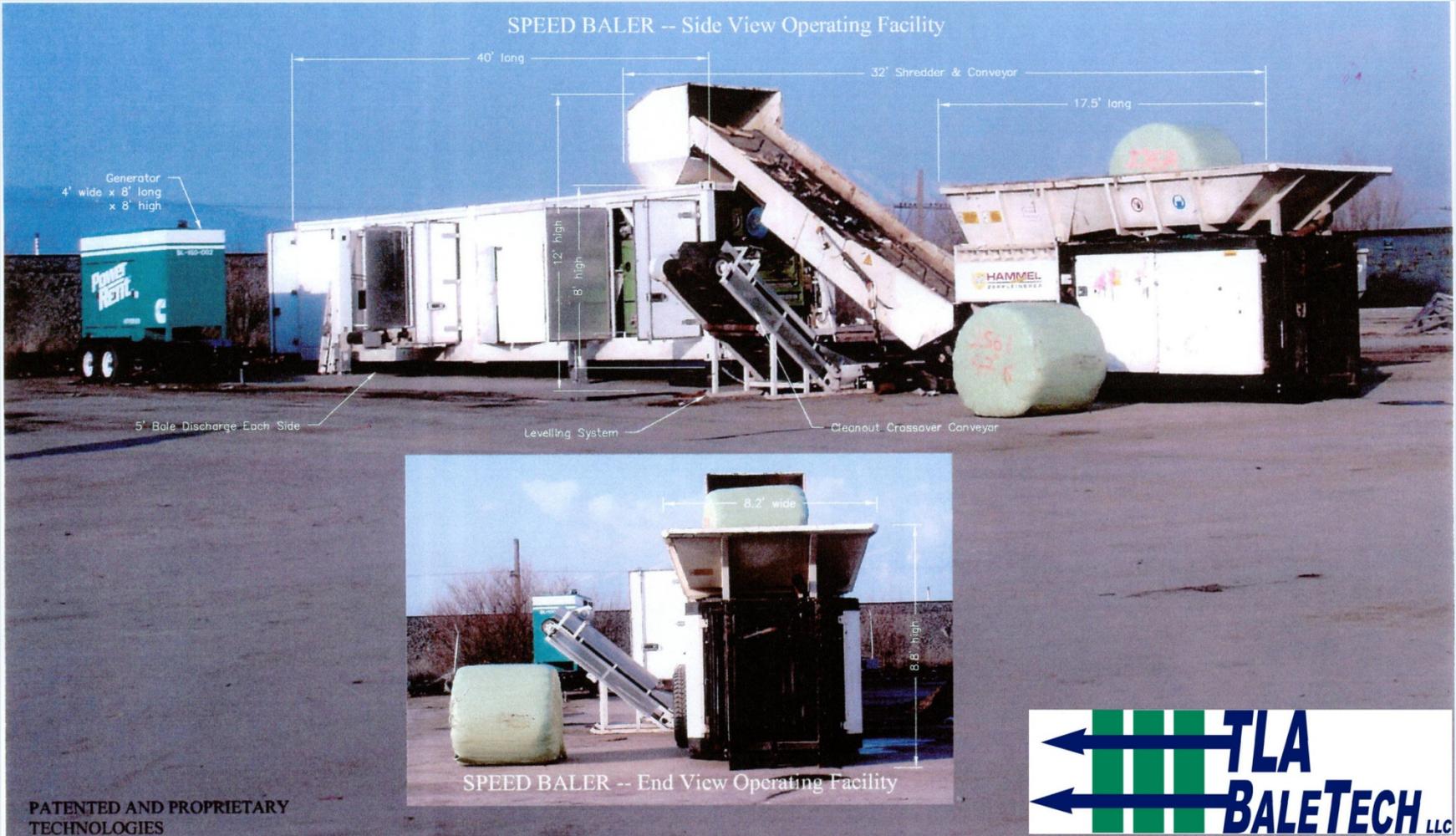
- 2006 TLA selected patented, proprietary technology that originated in Europe (early 1990s)
- Similar in technique to hay baling systems producing compact cylindrical bales
- Advantages:
 - Proven with MSW
 - Reasonable operating and maintenance costs
 - Simple to operate
 - Dial in diagnostics
 - Small units easy to set up
 - Good density
 - Even wrap coverage
 - Ease of handling

TLA-Bale Tech: A Comparative Look



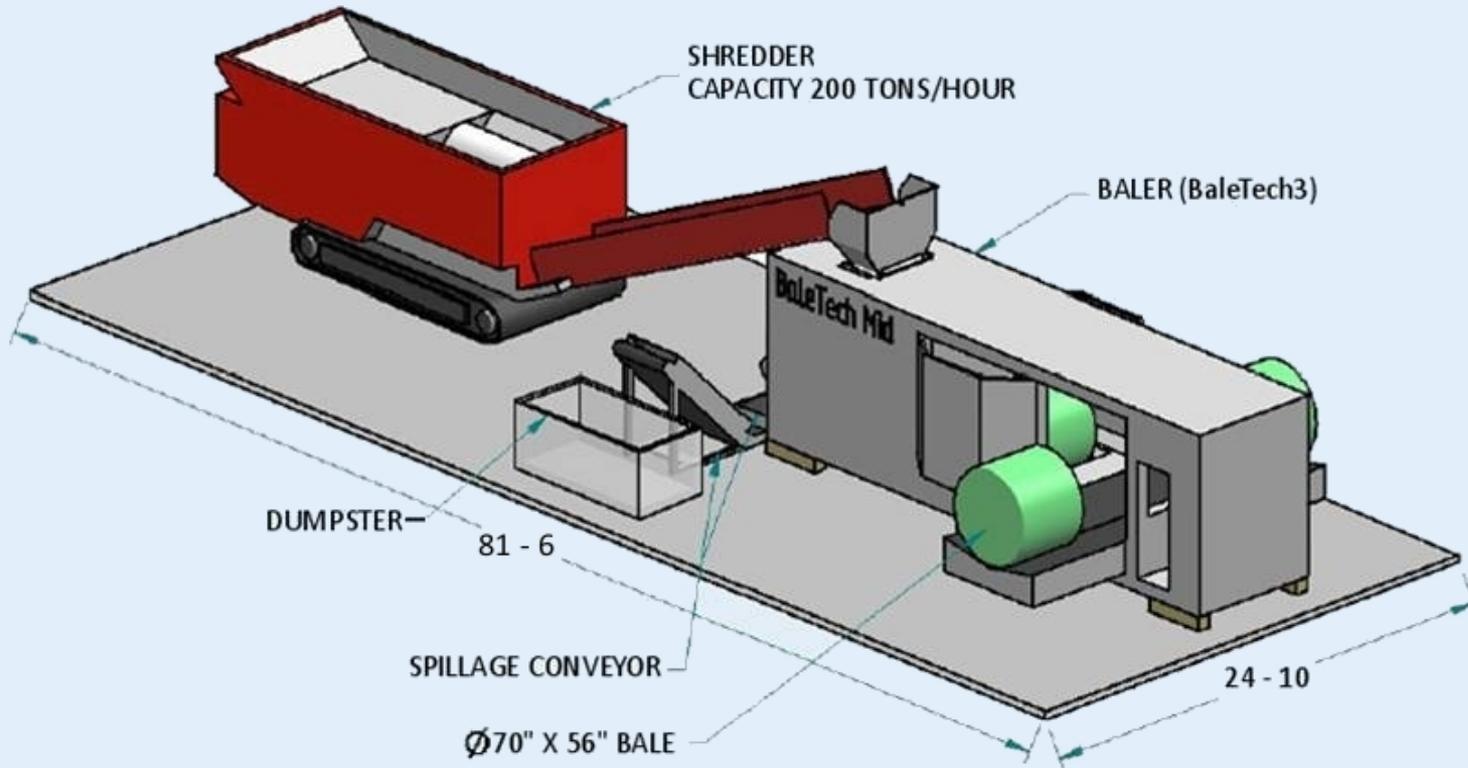
TLA Bales	Square Bales
Film applied in one direction provides more even and consistent coverage	Film applied in three different directions makes the seal less even and less consistent
No corners	Uneven tension on corners makes them more prone to tear
Wrap time 300% better than square pre-stretched	Slow wrap time
Tension is at a minimum 200% better, meaning that there will be less bulging, tearing and continuing pressure to maintain density	Uneven tension will create bulges and possible tears
Film under tension is more tear resistant and has more coverage per sq. ft. of surface area	Less tear resistant and requires more film to wrap
Handling by forklifts or other equipment does not increase tension on the bales	No matter what handling method is used, friction on the film will be applied (thus increasing likelihood of tear)
Maintains waste density	Potential for density loss is greater
Net provides even tension	Ties or straps more prone to break
Leachate pooling not a concern because waste is mixed during the spin process allowing for the moisture to be evenly distributed	Waste must be shredded and fluffed (mixed) to avoid leachate pooling.
Less leachate migration pathways because of more even film coverage and overlap	More pathways of migration, thus greater potential for escape of leachate

SpeedBaler: Standard Portable Design



BaleTech3: Standard Portable Design

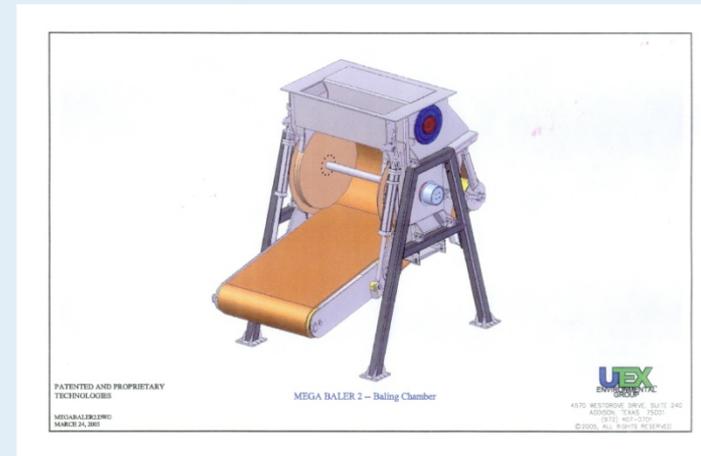
COMING FALL OF 2008



- Integrated parallel system
 - Baler and shredder integrated, with baler in control
 - Baler starts spinning and calls in waste from shredder
 - When bale reaches near final dimensions, signals to shredder to slow down feed
 - At bale dimension, shredder stops and netting deployed
 - When netting completed, bale pushed to table for stretch wrapping
 - Baler calls for shredder to begin feeding chamber at same time wrapping performed



- Rolled and Pressed Output
 - Uniform size and weight
 - Consistent compaction
 - High density
 - Cylindrical Shape
 - No moisture pooling/leachate breaks
 - No bale material breakout
 - Highly efficient
 - More uniform wrapping with optimal sealing properties



- Sealed Bales
 - Air and water tight
 - No odor
 - No biodegradation
 - No bird or vermin vectors
 - Storable at origin and destination
 - Facilitates more economic transportation of waste by rail or flatbed

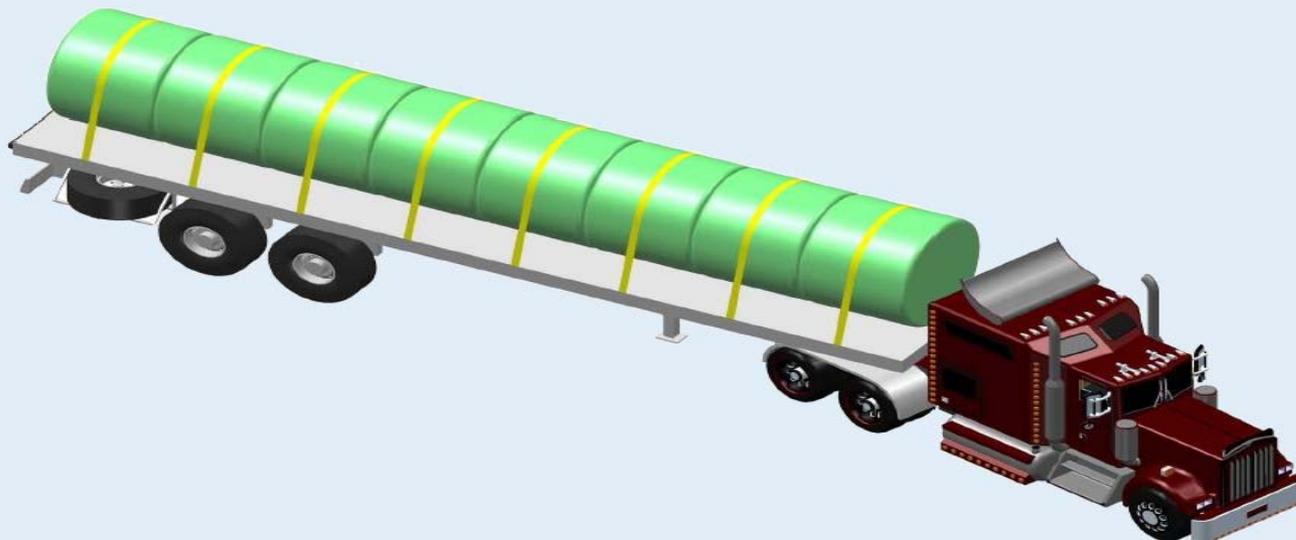
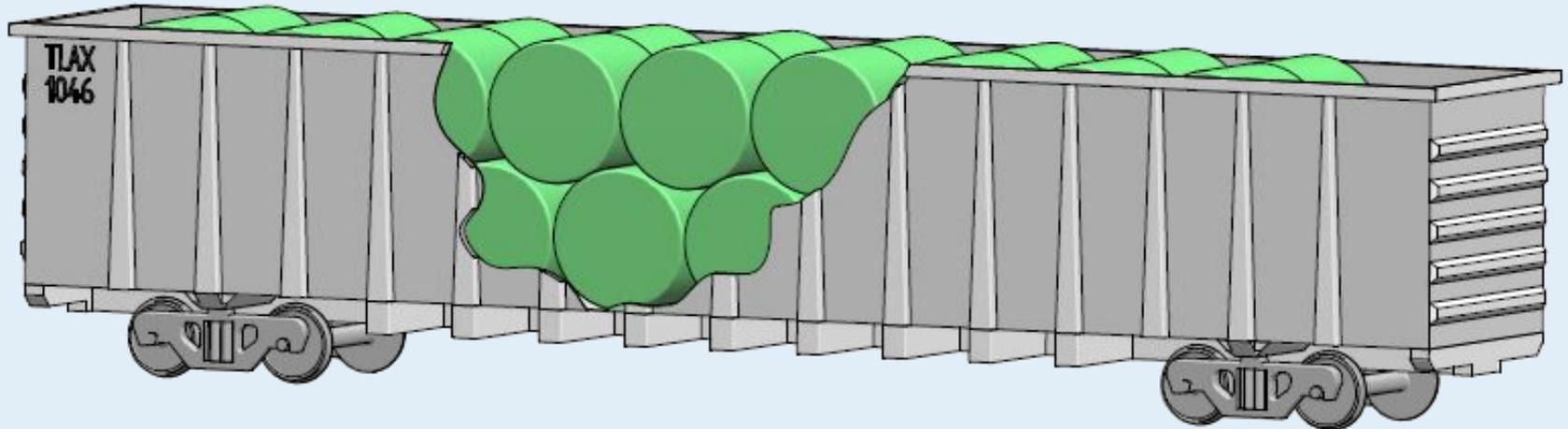


- Optimizes Transport and Storage
 - Maximum payloads
 - No return container
 - Uncontaminated shipping containers
 - No waste decay during transit
 - No odor emissions during transit
 - On-site storage of bales mitigates rail service disruption





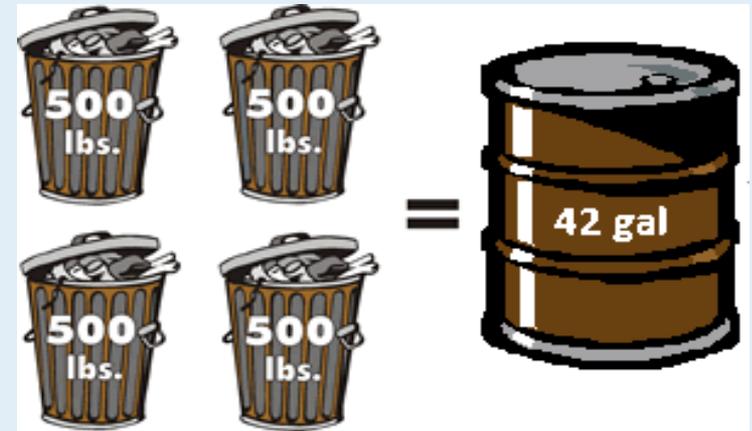
- Enhanced transportation mediums
 - Uniquely designed gondola rail cars
 - Enables waste by rail and its benefits
 - Enables waste transportation on flatbed trucks
- Enhanced baling technology
 - Increases throughput and baling capability
 - Portability improves placement and increases utility



- Bales can be thought of as energy reserves
 - Utilization in conversion technologies i.e. waste-to-energy
 - Delayed biodegradation property allows for on-demand use



- On average, U.S. waste-to-energy plants generate a net 550 KWh per ton of municipal solid waste combusted
- 1 ton MSW = 1 barrel of oil
- 3.8 tons MSW = 1 ton of coal
- Today, waste-to-energy plants generate enough electricity to supply almost three million households.

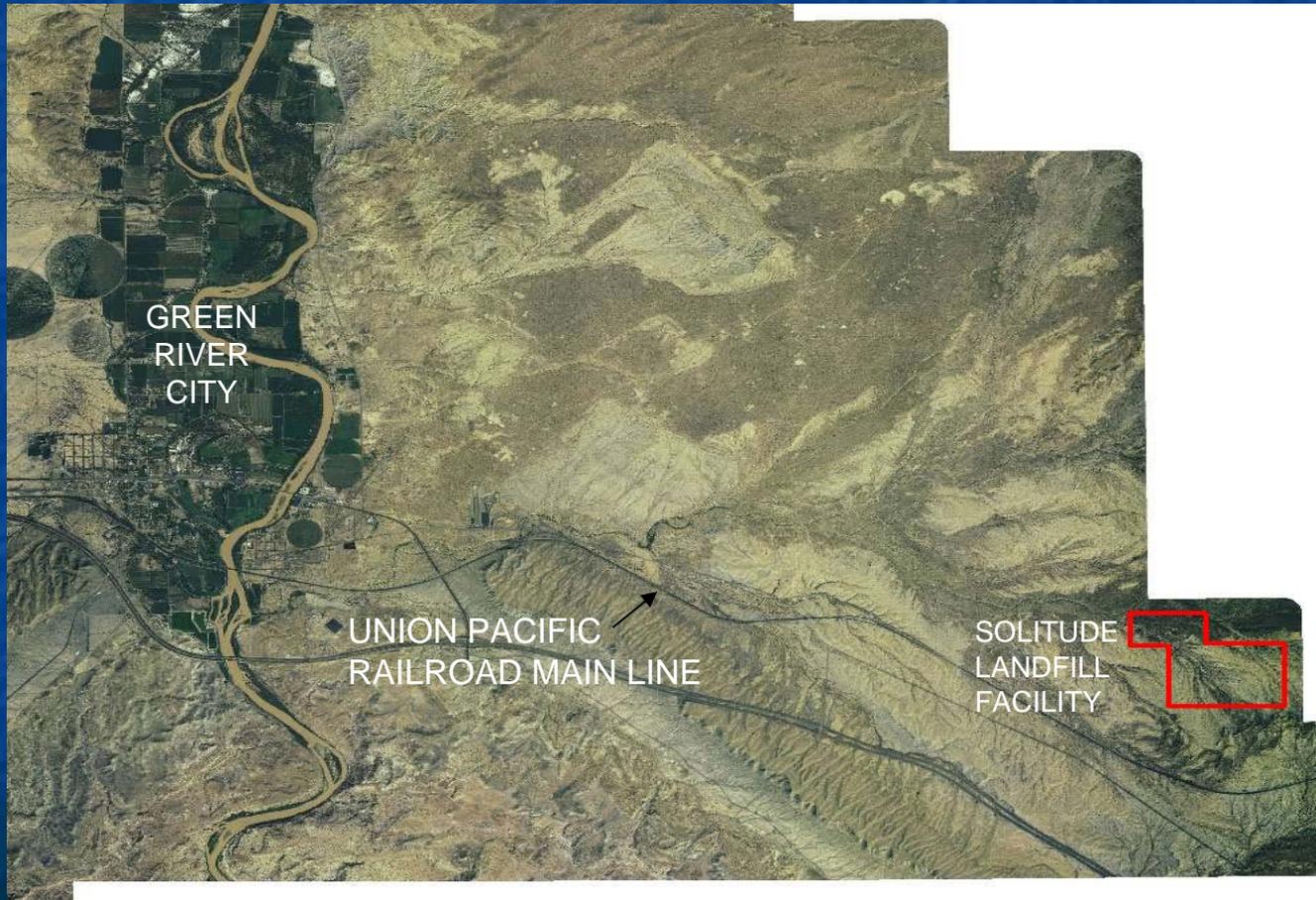




- Diminishing number of disposal options proximate to generation points
- Increase in price of fuel makes rail a hedge against long haul
- Clean bales allow for back hauls for trucks and rail cars to offset high transport costs
- Baling permits storage over long periods and material or energy reserve access for further handling
- Best of all....



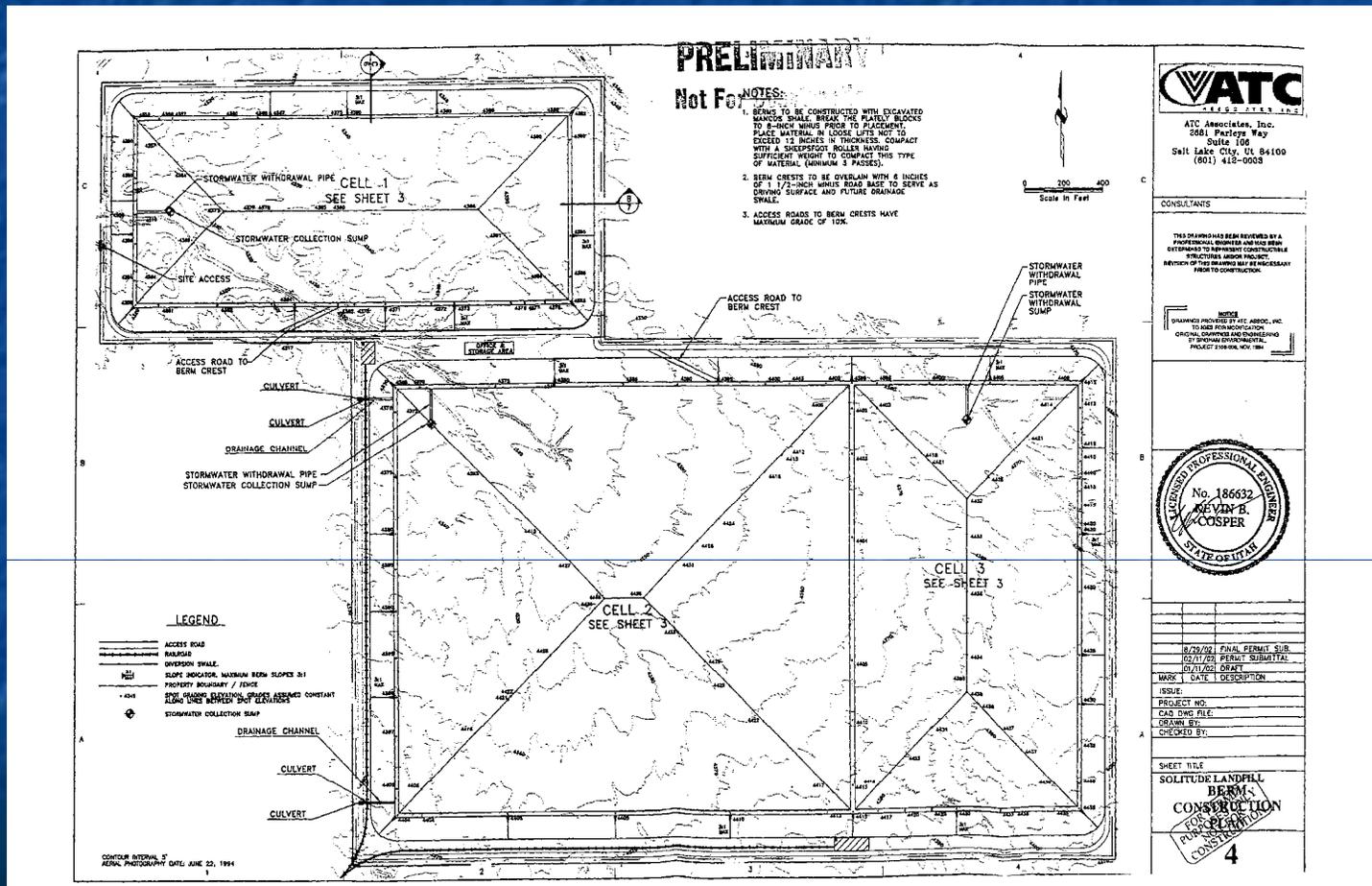
GREEN RIVER LANDFILL, L.L.C.



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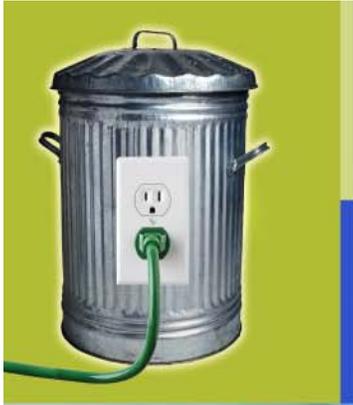


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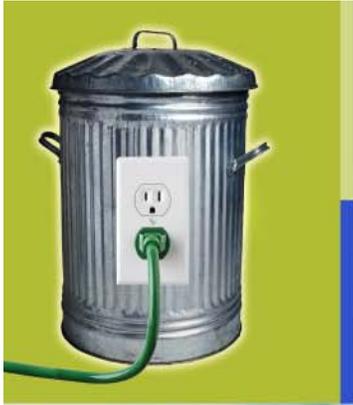
- Proximity to Union Pacific main rail line is 0.5 mile.
- A rail spur easement description has been written but the rail spur is not in place.
- Road access to the facility currently consists of a dirt road that will need improvement.
- No landfill lining system is required under the current permit.
- With no required lining system there is also no required leachate collection system.
- No ground water monitoring is required under the current permit.
- Current design capacity is 22 million cubic yards (estimated 12 million tons).
- Capacity might be increased by design permit modification that provides vertical expansion.
- Permitted landfill area is stated as 320 acres.
- Total facility land area is 320 acres excluding access road and rail spur easement areas.



JEFFERSON RENEWABLE **E**NERGY

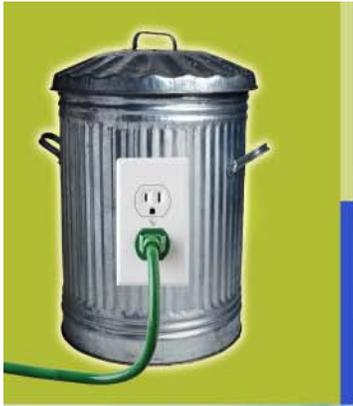
Jefferson Renewable Energy's Energy-from-Waste Electrical Power Plant Project in Mahoning County, Ohio

The right idea at the right time



Consider our World Today

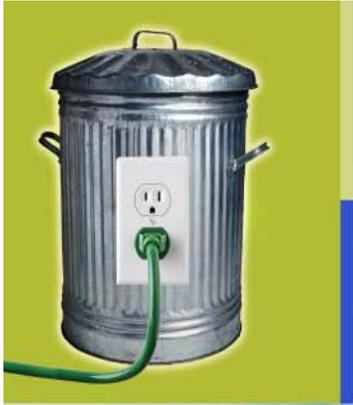
- Dwindling fossil fuel reserves
- Volatile fossil fuel market
- Growing concern over greenhouse effects
- Landfill space a precious commodity
- We generate more waste than we can manage
- Local economy in need of a boost



JEFFERSON RENEWABLE **E** N E R G Y

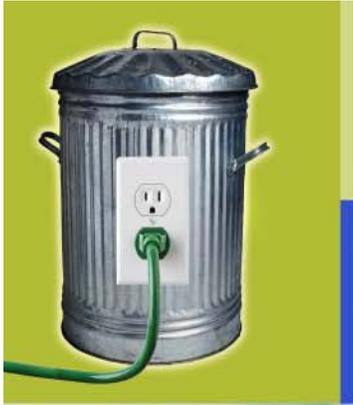
Everybody Says...

“We’ve got to do something.”



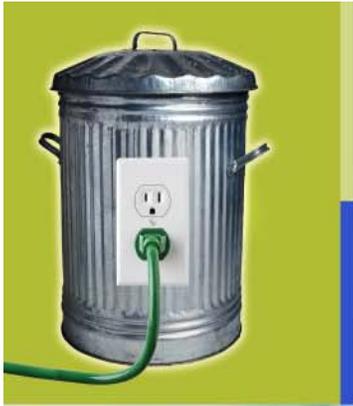
The Right Idea at the Right Time

- Power generated from the materials we discard
- Jefferson Renewable Energy and TransLoad America
 - Partners in Mahoning Renewable Energy project



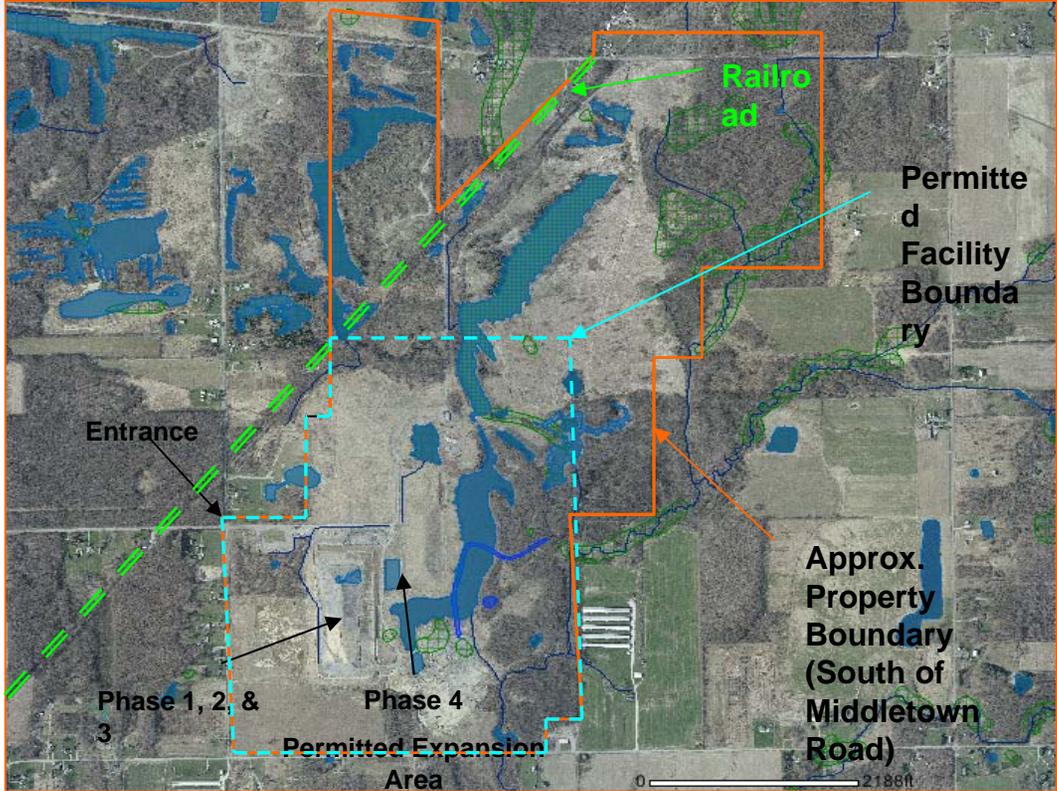
Community Benefits of Mahoning Renewable Energy

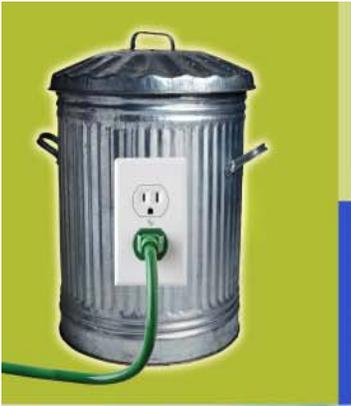
- The Four E's
 - Environmental: Equal to 500,000 fewer cars!
 - Energy: For 50,000 customers!
 - Employment – For 60 local residents!
 - Economy – Investing \$235 million!



Our Location

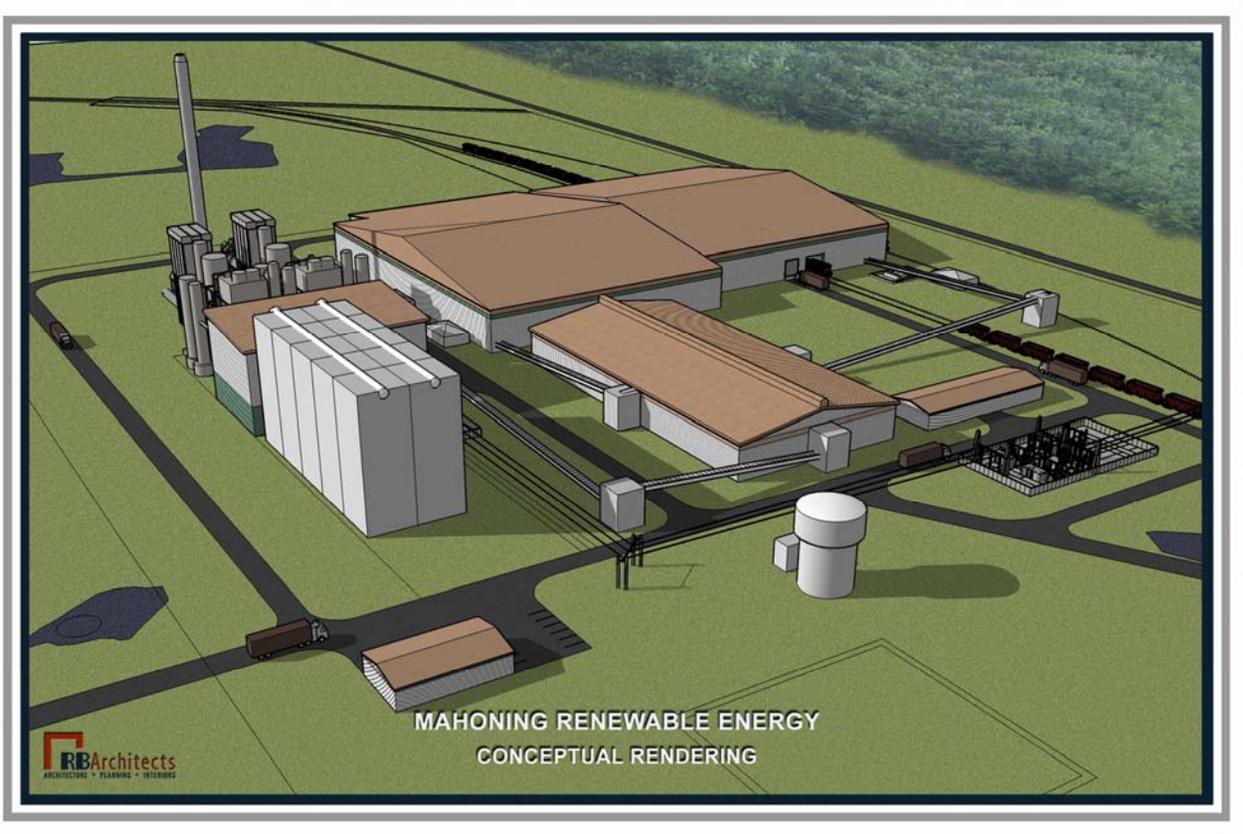
- In Smith Township, Mahoning County

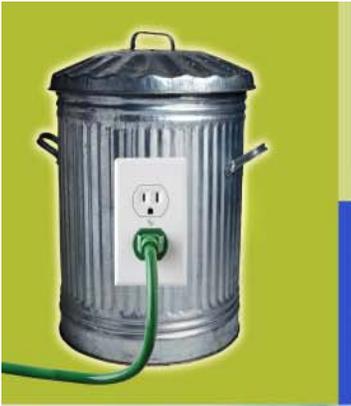




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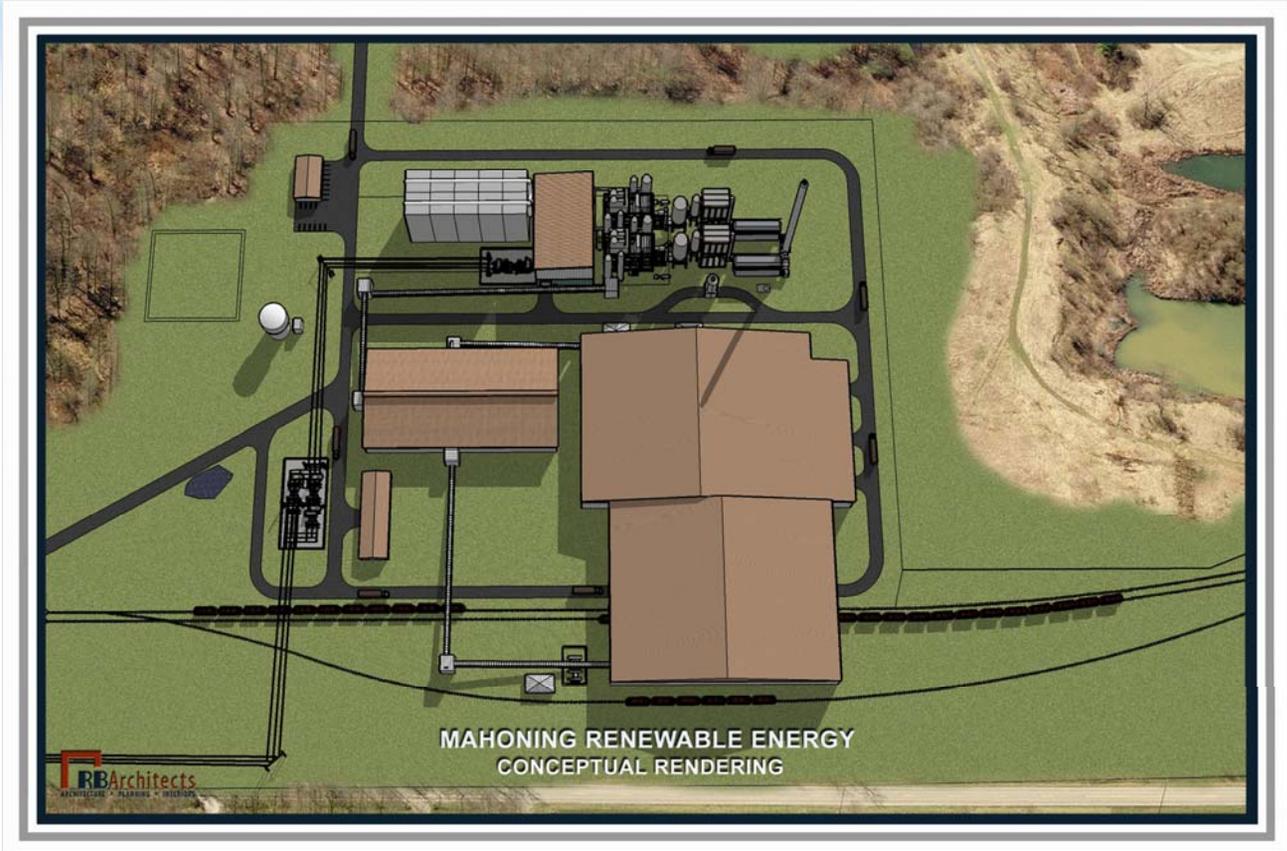
Conceptual Rendering

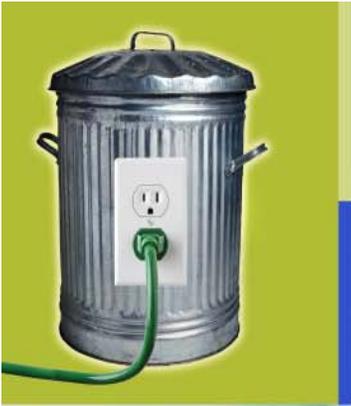




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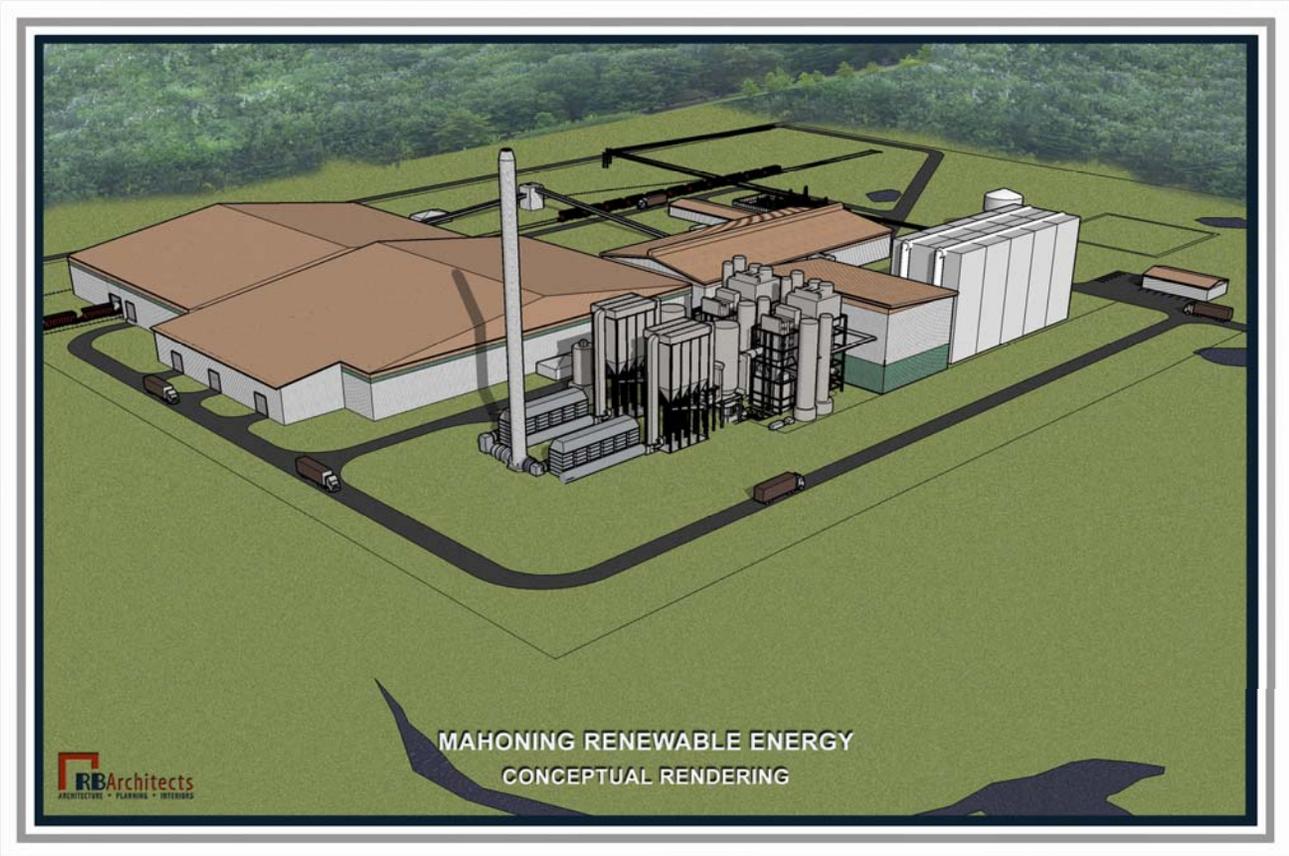
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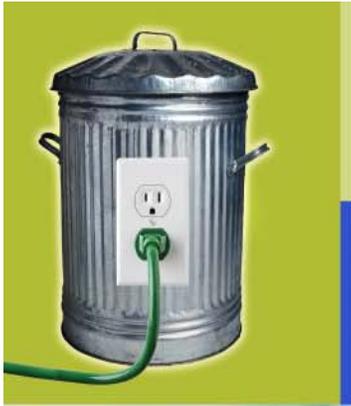




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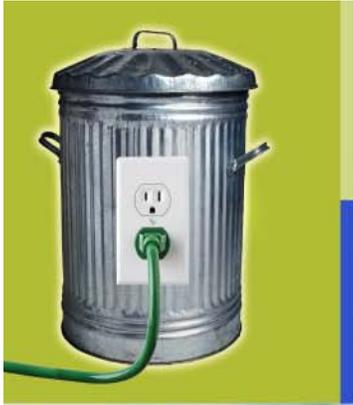
Conceptual Rendering





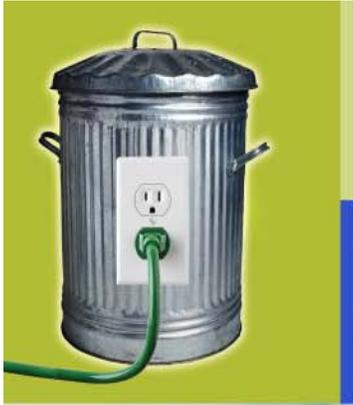
Conceptual Site Plan





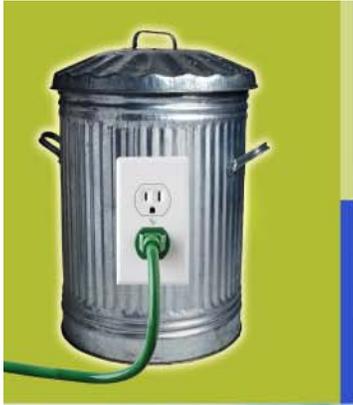
Energy-from-Waste Power Generation Specifics

- Fuel – municipal solid waste and construction and demolition debris
- Sorted and processed
- More recyclable materials
- Process reduces dependency on fossil fuels and reduces greenhouse gas



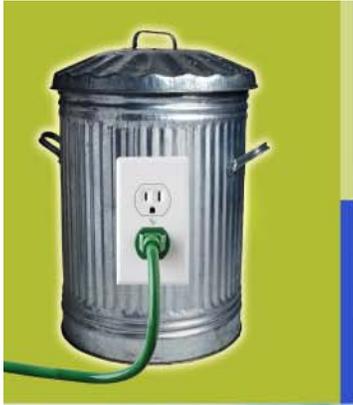
Economic Benefits of Mahoning Renewable Energy

- Increased employment
- Economic investment in Mahoning County
- Increased recycling of salvageable materials



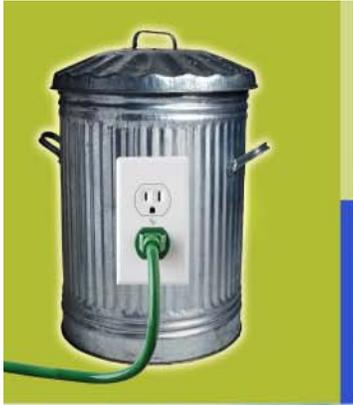
State-of-the-art Plant Technology

- Facility employs BAT and BACT
 - Babcock Power Environmental's Advanced Stoker Boiler System & Control Technology
- Qualifies for alternative energy credits
- Minimal byproducts
- No wastewater discharges



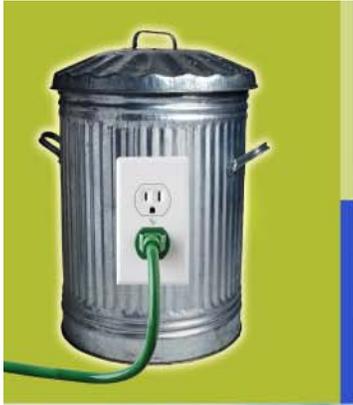
Ohio Leads in Advanced and Renewable Energy Legislation

- Mahoning Renewable Energy qualifies as advanced energy under Ohio law
- Mahoning plant fits with Gov. Strickland's objectives



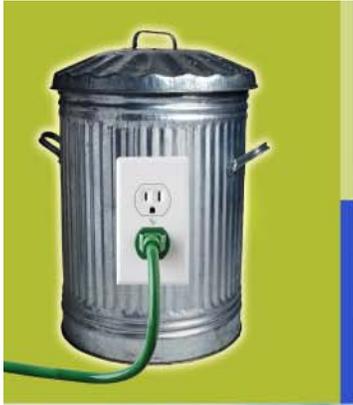
To Summarize

- Mahoning Renewable Energy will:
 - Create high-paying jobs
 - Improve the environment
 - Produce energy while reducing dependence on fossil fuels
 - Improve local economy



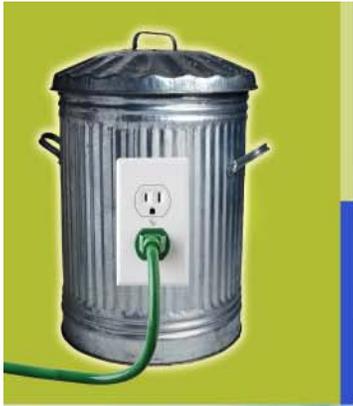
Mahoning Renewable Energy

- JRE and TLA are responsible corporate citizens
- Working to exceed EPA Standards
- Major enhancements to Central Landfill



How You Can Help

- Spread the good word
- Join the “green” effort
- Keep the lines of communication open
- www.jreri.com



JEFFERSON RENEWABLE ENERGY

Thank you