



LEEP Holdings, LLC and Balkrete, Inc.

Together building a Renewable **e**nergy Recovery Facility
(**Re**RF) producing **e**formanceRDF, a 90% biogenic
renewable fuel, and Balkrete Aggregate, a durable solid
building material, from Municipal Solid Waste

Kevin Furnary, LEEP Holdings, LLC
SWANA July 15th , 2010 VA Beach, VA

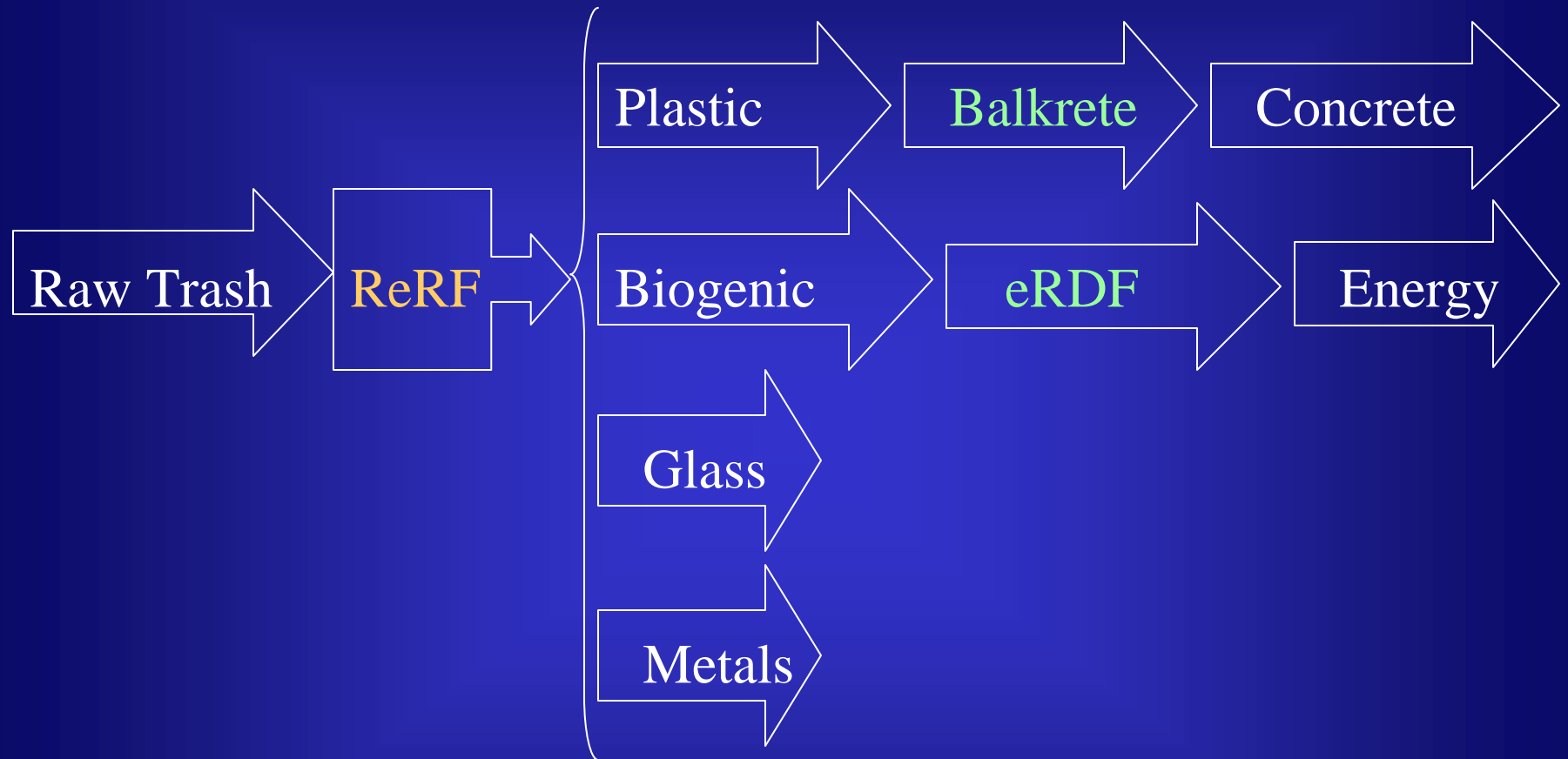
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and Balkrete, Inc.

In 2008 in the United States **one billion tons of coal** were burned for electric generation and **254 million tons of MSW** were generated.

If 40% net performanceRDF is produced from MSW nationally (100 million tons) **10% cofiring of a renewable fuel** with coal is sustainable.



Our Goal- 100% Recycling, Carbon Capture and Energy Production from MSW



Removing the plastics from MSW reduces anthropogenic CO₂ emissions up to 77% when combusting MSW and MSW-derived syngas

Concrete produced with Balkrete Aggregate contains 70% post-consumer recycled plastic and sequesters the carbon in plastics *forever*



Regional Greenhouse Gas Initiative

An Initiative of the Northeast & Mid-Atlantic States of the U.S.

Co-firing of eligible biomass in a fossil fuel power plant can reduce that units CO2 compliance obligation. (RGGI Model Rule, soon national, global)

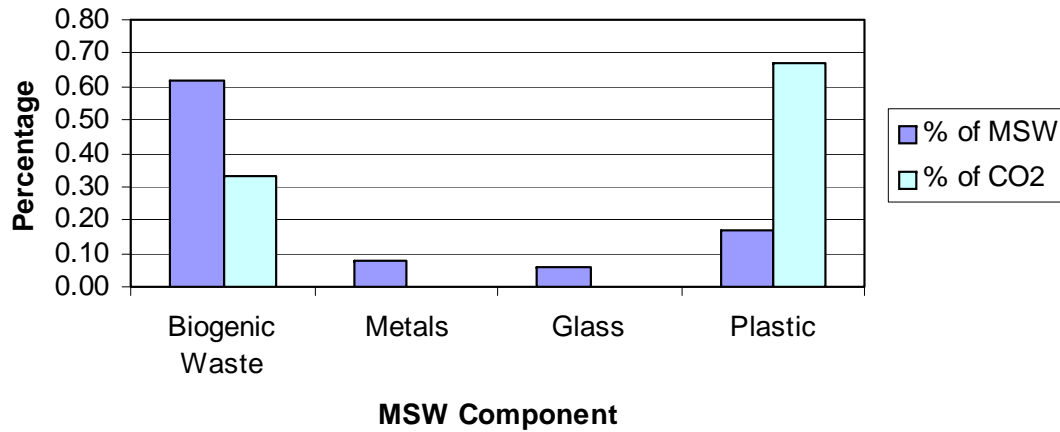
“CO2 emissions attributable to the combustion of eligible biomass at a CO2 budget unit can be deducted from that unit’s CO2 compliance obligation. Eligible biomass includes ... **other clean organic wastes not mixed with other solid wastes**, biogas, and other neat liquid biofuels derived from such fuel sources. Determinations as to what constitutes sustainably harvested biomass shall be made by the applicable regulatory agencies in each participating state.”

New York Renewable Portfolio Standard- Sept. 2004

Excerpts Re: MSW Discussion, Conclusions

“WTE generators may participate in the RPS to the extent their facilities comply with the requirements for renewable biomass. **For example, source-separated refuse-derived fuel (RDF) is an eligible biomass resource feedstock.**”

**Mixed MSW Discards Combusted
Percentage by Component**



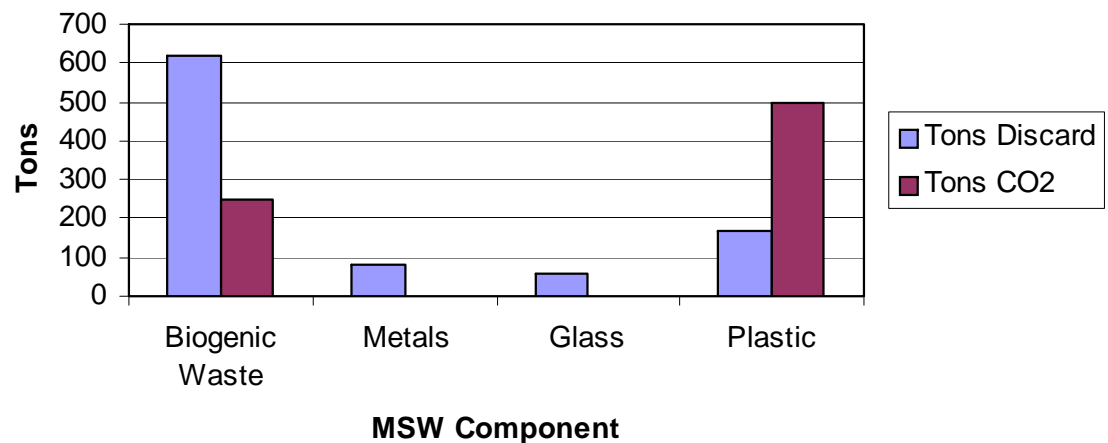
Plastic, 17% of MSW discards, accounted for 65% of all CO2 emissions from MSW combustion.

Combined with Synthetic Fibers (nylon, polyester, polypropylene) the figure jumps to 77% of accountable CO2 emissions.

50 million tons of combustible plastics enter the waste stream every year in the US, less than 6% are recycled.

Every ton of plastic combusted emits 3 tons of CO2.

**Mixed MSW Discards Combusted
Per 1000 Tons by Component**



Biogenic RDF Production Simplified

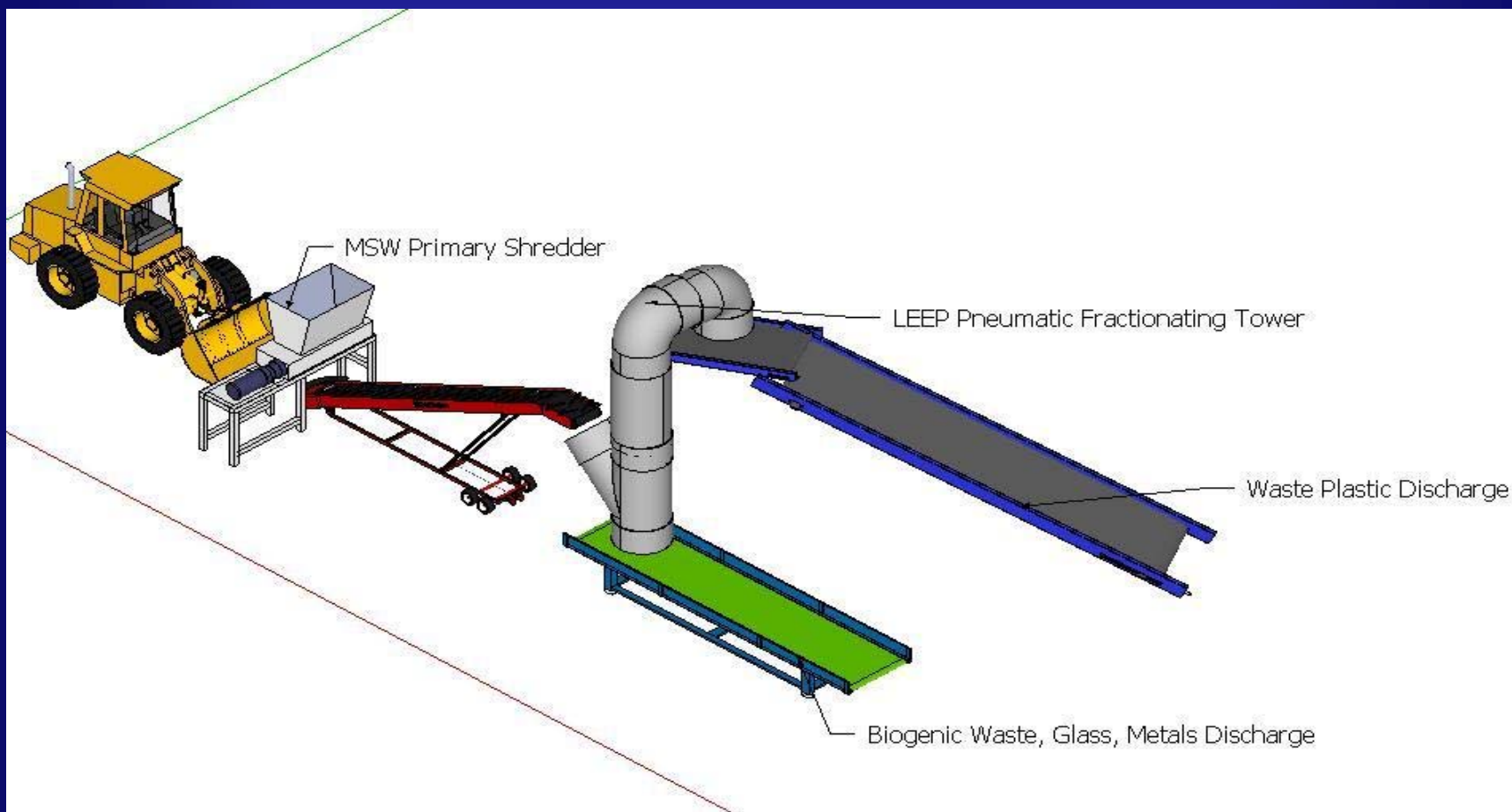
Characterization of MSW Discards (2007-US)

Biogenic Wastes	62%
Ferrous Metals	6%
Non-ferrous Metals	2%
Glass	6%
Plastic	17%

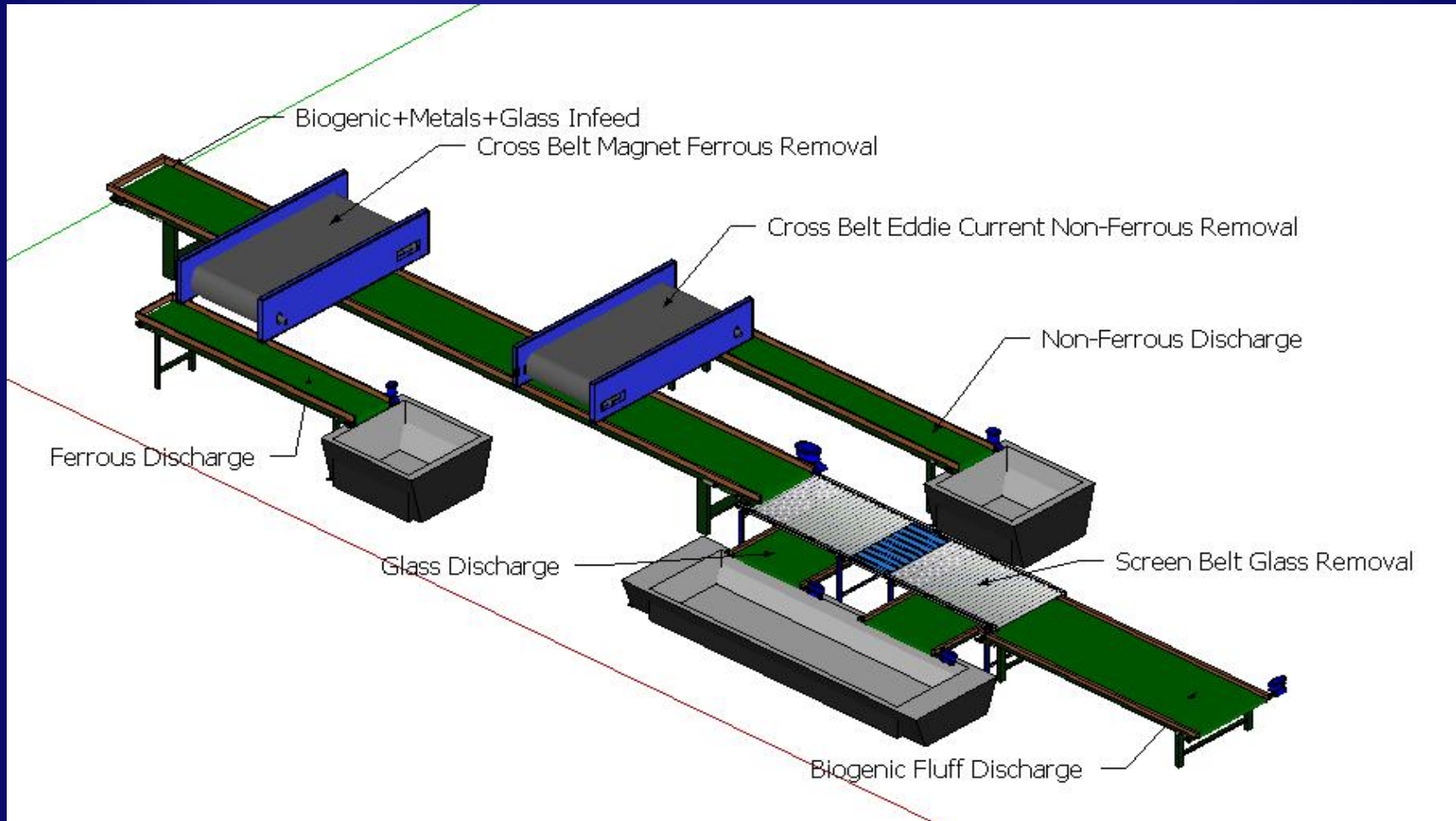
Processing 50 t/hr MSW into 20 t/hr dRDF

Primary Reduction	50 t/hr	Ferrous	3 t/hr
Non-ferrous	1 t/hr	Glass	3 t/hr
Plastic	8.4 t/hr	RDF	20 t/hr Durable solid (difference is dewatering and grit)

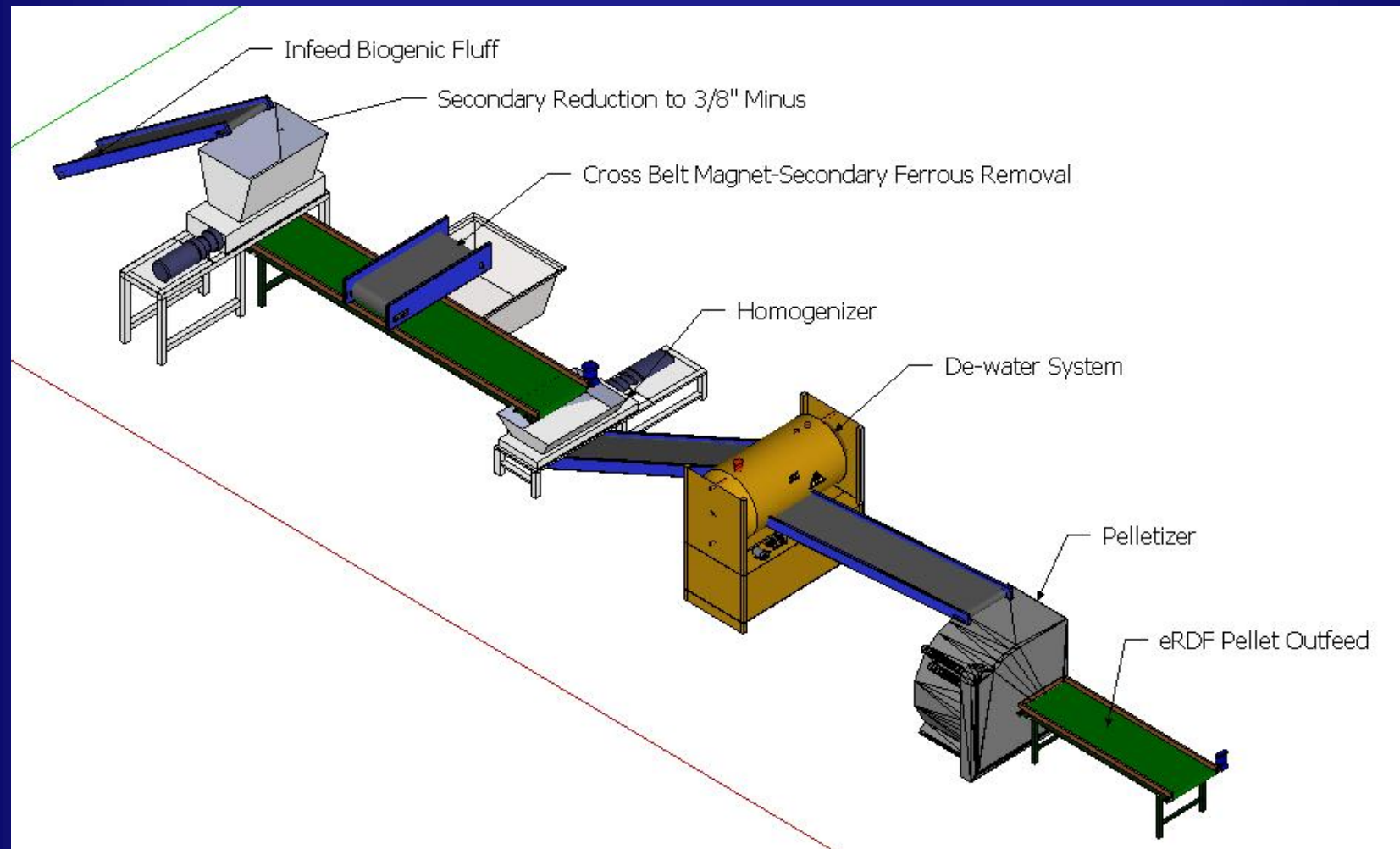
LEEP ReRF- MSW Primary Shred & Waste Plastic Fractionation



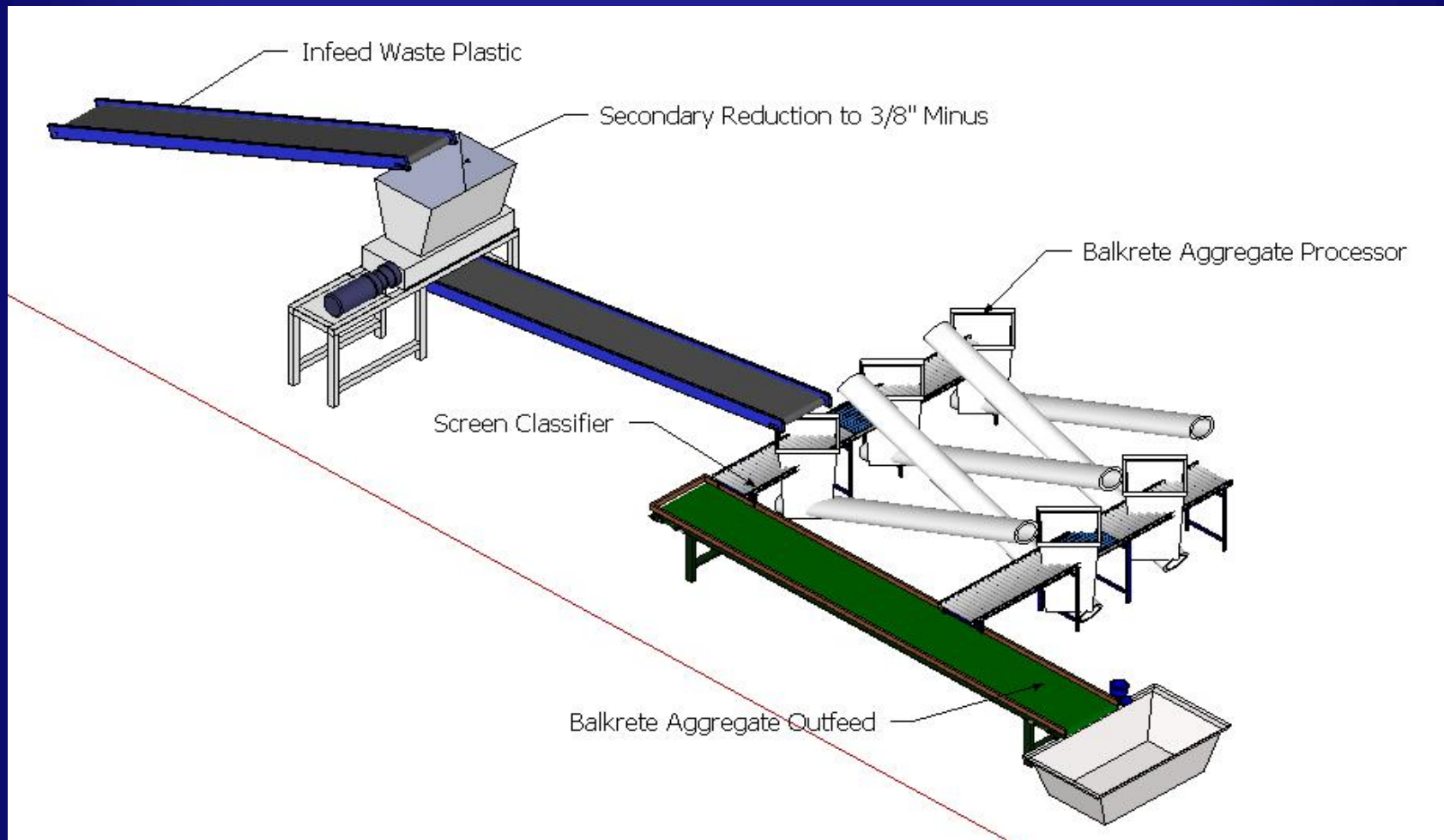
LEEP ReRF-eRDF Metals & Glass Removal



LEEP ReRF-eRDF Fluff to Pellet



LEEP ReRF- Waste Plastic Conversion to Balkrete



Forming Balkrete Aggregates: Process & Product Advantages

- Accepts mixed recovered plastics from industrial, commercial & municipal sources
- Shreds plastic to a uniform size for processing
- Modifies plastics using heat, producing an engineered aggregate with specific size, shape, density, & surface characteristics
- Balkrete Aggregates- 66% lighter than quarried sand and rock, finished concrete 30-40% lighter- requiring fewer trucks, less fuel and less manpower
- Concrete produced with Balkrete Aggregates contains up to 70% post-consumer recycled plastic & improves thermal insulation up to 300% from R-1.1 to R-4.2
- Balkrete Aggregates- produced from local waste plastics feedstock to supply local aggregate markets, reducing input transportation costs
- Balkrete Aggregate sequesters the carbon contained in the plastics in perpetuity

ReRF- 1000 tons MSW per day

- Annual 360,000 tons MSW
40% biogenic = 144,000 tons = \$21,600,000 eRDF
17% plastics = 61,200 tons = \$6,120,000 Balkrete Aggregates
14% metals, glass = 50,400 tons to existent Markets
- Perfecting Carbon Credits
(61,200 tons plastics x 3) = 183,600 tons of Carbon avoided
Estimated \$10.00 per ton Carbon valuation = \$1,830,000
- 5 years, 10 plants = \$300,000,000 Annual Revenue

* eRDF Biomass is priced at \$150 per ton, Balkrete is priced at \$100 per ton, Carbon credits at \$12 per ton

The LEEP Team

Jim McDonnell- Energy/Utilities, former CFO, Pepco Energy Services

Peter Blacklin- PE/MBA, Cranfield Tech, England, career design/ process engineer

Bill Ellison- Stack flue gas and pollution controls expert, contributing editor- Power Magazine

Dr. Jack Durham- Physical chemist, career EPA Scientist retired, contributing author Clean Air Act

Tom Balkum- Career Operations specialist, process engineer, Balkrete creator and developer

Kevin Furnary- Career Entrepreneur, Visualized company

Value Added

- Municipalities can turn a Liability (MSW) into an Asset (eRDF)
- Coal fired power plants can cofire eRDF, meet RPS obligations
- eRDF produced Synfuels emit less Anthropogenic Carbon
- American know-how creating Green Jobs using Net-Negative Carbon Reduction Methods

Market Opportunity

- eRDF \$6 billion US, \$198 billion Global
- Balkrete \$2 billion US, \$20 billion Global

Resources

- Feedstock- Waste Fuel Disposal Services Contracts
- Process- Patented and Patent Pending methods
- Off Take- Renewable Fuels to combustion and synfuels
- Capital Raise- \$10 million Series A

Biomass from MSW, Wood +AG deployments 2015 to 2030

– 2010

86 plants-WTE

– =.04 %

2015

86 plants-WTE

CHP

(Combined Heat and Power)

16 to 20 plants= 500 MW 20 to 80 plants= 1400 MWe

Refire or Co-fire w/Coal

2030

86 plants-WTE

CHP

(Combined Heat and Power)

Refire or Co-fire w/Coal

ReRF's 6 to 10 plants

Co fire into 2600 MWe

Total = 2%

Renewable Power

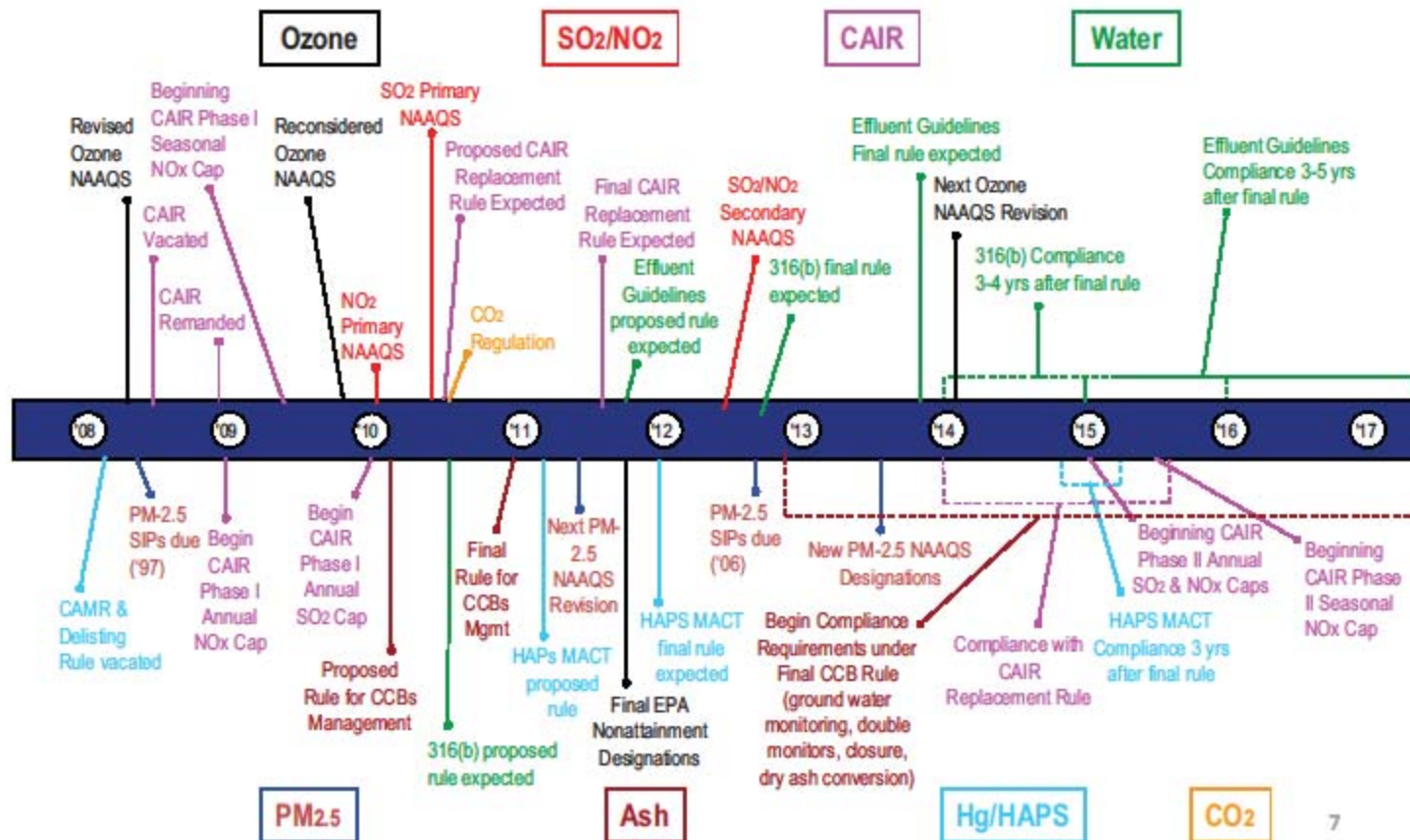
ReRF's 10 to 20 plants

Co fire into 5200 MWe

Total 4% +

Renewable Power

Environmental Regulatory Timeline for Coal Units (“Train Wreck”)





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Producing eformanceRDF, a 90% Biogenic
renewable fuel, and converting the Non-Biogenic
plastics separated from the Waste Stream into
Balkrete Aggregate, a durable solid building material

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