

# Presentation Title:

Advances in Waste Conversion Technologies



**SOLID WASTE**  

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**MANAGEMENT**  

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**CONSULTANTS**

*Presented by:*

**Steve Simmons**

**GBB President**

Gershman, Brickner & Bratton, Inc.

**COG Recycling Committee**

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# STEVE SIMMONS

GBB President



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- Over 35 years of experience leading solid waste management and renewable energy infrastructure projects in the environmental and energy services sectors.
- Steve has worked with leading international energy operating companies and engineering/consulting firms and is highly experienced in:
  - Program and project management
  - New business development, business financial modeling, and profit and loss management
  - Waste and power marketing
  - Technology evaluation
  - Facility design, procurement, and construction



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# Gershman, Brickner & Bratton, Inc.

*Innovative, Sustainable Solutions for Solid Waste Management*

## *GBB Vision*

*A world where discarded materials are used as resources rather than wasted*



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# A New Class of Waste Conversion Facilities Started Commercial Operation in 2019

## Entsorga West Virginia

- Commercial operations in the spring of 2019 in Martinsburg, WV.

## RePower South

- This facility is in Monks Corner, SC and began operations in the summer of 2019.

## Fiberight, LLC

- This facility is located outside of Bangor, ME. And began commercial operations in the spring of 2019

## Continuus Materials

- This facility is located in Philadelphia and began commercial operations in the fall of 2019



# Entsorga West Virginia - Martinsburg, WV

## Facility

- **Processing Capacity Max:** ~ 500 tpd of MSW
- **Recoveries:** Metals
- **Product:** Solid Refined Fuel (SRF)

## Economics

- **Investment:** \$50 million
- **Tipping fees:** ~ \$50 per ton



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# RePower South - Moncks Corner, SC

## Facility

- **Processing Capacity Max:** ~ 600 tpd of Mixed Waste
- **Recoveries:** Traditional Recyclables (Plastics, Metals, OCCs)
- **Product:** ReEngineered Feedstock Fuel (ReEF)

## Economics

- **Investment:** ~ \$55 million project
- **Tipping fees:** \$38 per ton



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# Coastal Resources of Maine /Fiberight- Bangor, ME

## Facility

- **Processing Capacity Max:** ~ 600 tpd of MSW
- **Recoveries:** Traditional Recyclables (Plastics, Metals, OCCs)
- **Products:** Fiber Pulp, Renewable natural gas, Solid recovered fuel

## Economics

- **Investment:** \$70 Million
- **Tipping fees:** ~ \$70 per ton



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# Continuous Material Recovery, LLC – Philadelphia PA

## Feedstock

- Mixed paper
- Non recyclable plastics

## Process

- Continuous EVERBOARD™ Roof Cover Board

## Application

- Building materials created from recovered mixed paper and plastic



*Expansion to 150 million sq. ft per year planned during 2021*



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# Aggregates - Eddystone, PA

## Feedstock

- MRF glass

## Process

- Ultra-Lightweight Foamed Glass Aggregates (ULF)

## Application

- Foaming waste glass used for durable construction material



***32,000 TPY MRF glass***



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# Agilyx – Tigard, OR

## Facility

- **Processing Capacity Max:** ~ 20 TPD plastic waste
- **Recoveries:** mixed 3-7's plastic; Expanded polystyrene foam
- **Products:** Synthetic crude oil; styrene monomer

## Economics

- **Investment:** ?
- **Tipping fees:** ?



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# *Thank you!*

# **GBB**

## **1980-2020**

*40 years  
of Service*

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