AMP™ - MSW Processing Technology

Automated, Intelligent Sortation Services

NERC 2025 | Cameron Douglas

© 2025 AMP ™. NERC 2025

CAPTURE MORE VALUE

AMP **designs, builds, and operates** advanced, cost-competitive facilities to sort single-stream recycling and **municipal solid waste (MSW)** using artificial intelligence and automated sorting technologies

© 2025 AMP™. NERC 2025

AMP
At a glance

- Founded in 2014, headquartered in Colorado
- Automation systems deployed across the United States, Canada, Europe, and Japan
- Building and operating next-generation AMP ONE facilities for MSW, single stream, and MRF residue
- End-to-end service provider, not an equipment manufacturer

© 2025 AMP™. NERC 2025

AMP Powers Facilities Globally

400+

AI systems deployed globally across 3 continents

100+

Facilities using AMP technology

5

AMP Operated Facilities

200B

Objects recognized by AI

© 2025 AMP™. NERC 2025

3 Levels of Solution for MSW

Systems that can be used independently or together

AMP SPOKE

Harvest material from MSW

Process MSW at transfer stations or landfills and bring material to a Hub or an existing MRF

Outputs:

- Organics
- Single Stream
- Residue

AMP HUB

Sort to End Products

Fully automated facilities autonomously sort recyclables for sale

Outputs:

- Plastics 1-7, Pyrolysis, and More
- UBC, Ferrous
- Paper, OCC

AMP CARBON

Valorizing organics

Pyrolysis of organic material provides organics diversion alongside carbon credit sales and power

Outputs:

- Biochar
- Electric power

© 2025 AMP™. NERC 2025

Transfer station and landfill infrastructure for diversion

Obtain diversion with minimal change to existing facilities

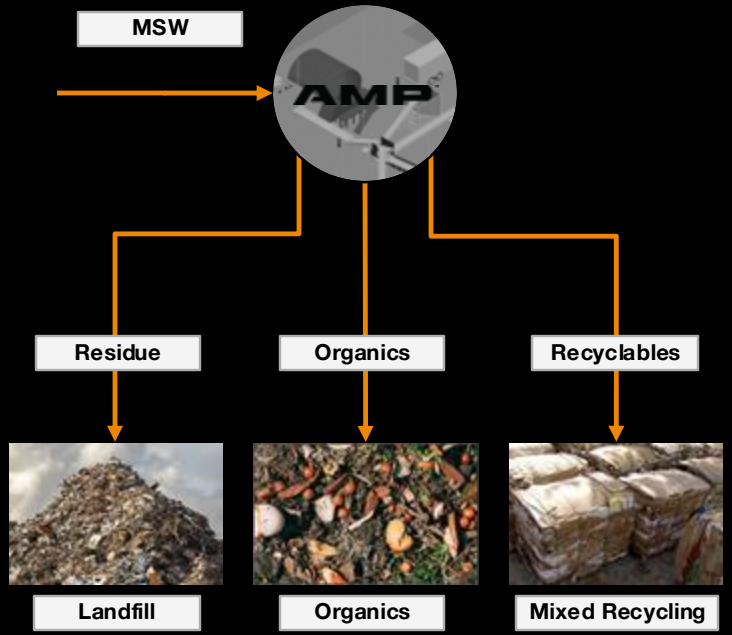
AMP SPOKE

Harvest material from MSW

Process MSW at transfer stations or landfills and bring material to a Hub or an existing MRF

Outputs:

- Organics
- Single Stream
- Residue



© 2025 AMP™. NERC 2025

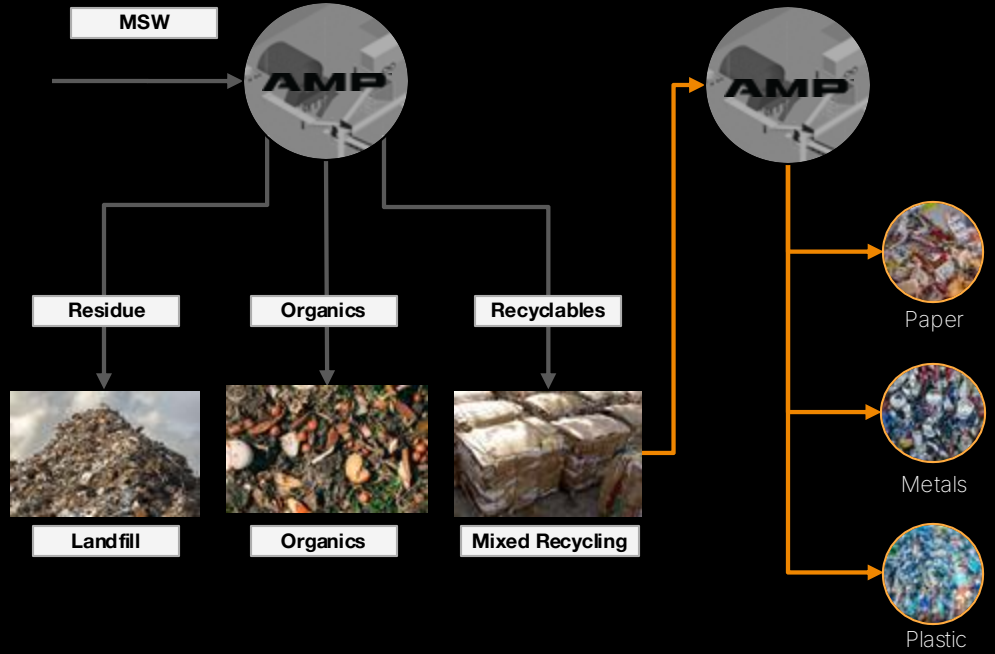
An additional MRF for additive volume from Spokes

Exceptionally high recovery and purity

AMP HUB

Next generation MRF
Fully automated facilities autonomously sort recyclables for sale

Outputs:
- Plastics 1-7, Pyrolysis, and More
- UBC, Ferrous
- Paper, OCC



© 2025 AMP™. NERC 2025

Biochar presents a low cost path for organics diversion

Technologically simple pathway compared to conventional organics pathways

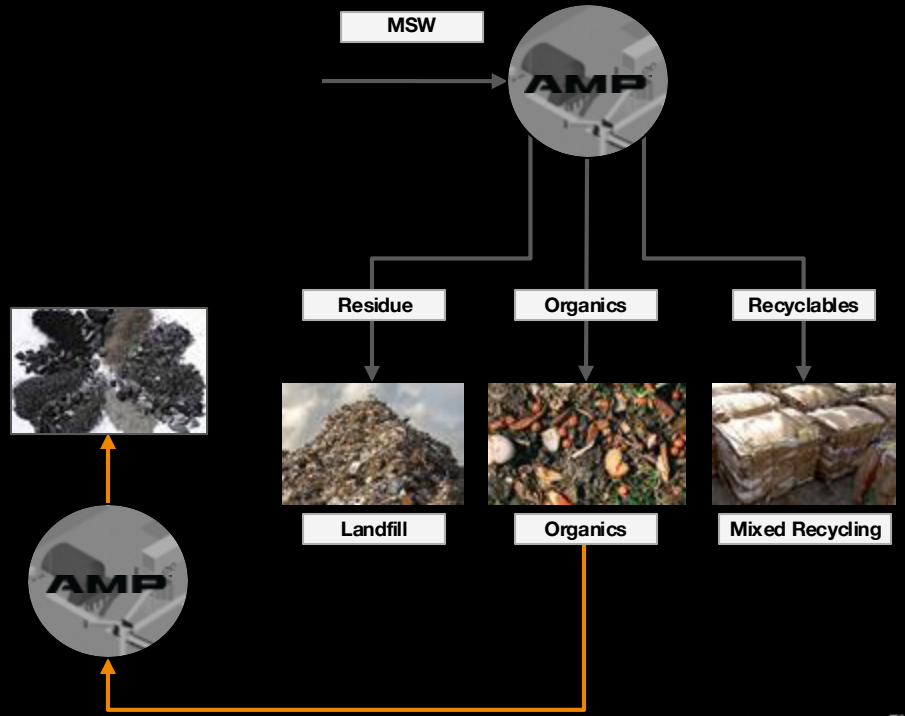
AMP CARBON

Power from organics

Pyrolysis of organic material provides organics diversion alongside carbon credit sales and power

Outputs:

- Biochar
- Electric power



© 2025 AMP™. NERC 2025

AMP Vision™

Enabling a new generation of facilities able to overcome historical MSW sorting challenges

- The “eyes” powering AMP’s industry-leading technology
- Detect material AND contamination, item-by-item
- Dynamically monitor and control the performance of every piece of equipment and the resulting purity of every bale produced.
- Sees and sorts things that traditional opticals can’t at a fraction of the cost

© 2025 AMP™. NERC 2025

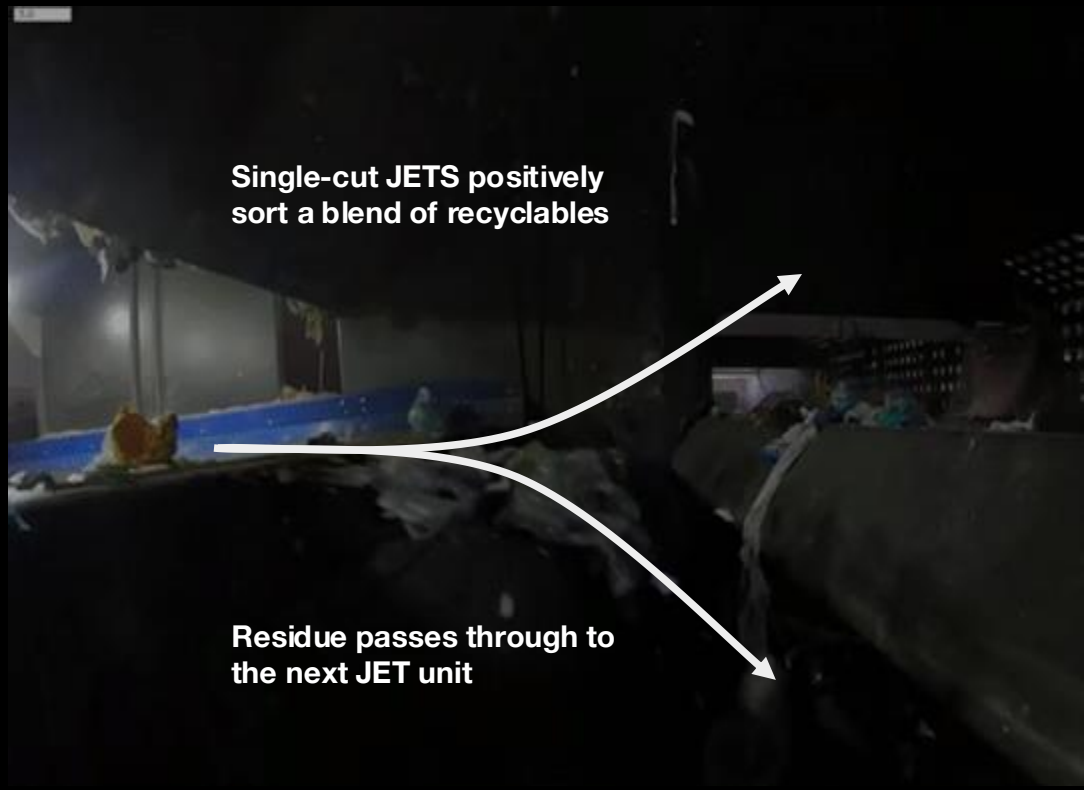
AMP JET™

The new generation of optical powered by AMP AI

Best Value for Performance
- Typical 25 tph design includes 15+ jets
- More technology means more touches on material, for more efficient sortation at a lower cost

High Throughput
- Clears jams before they happen
- Reconfigure process flow with zero downtime

Robust Design Resilient to MSW
- Better than NIR for handling grime and moisture, detects contamination
- AI detects all material types and their conditions better than NIR, which is primarily for resins



© 2025 AMP™. NERC 2025

AMP JET™ + AMP Vision™

Continuous Improvement

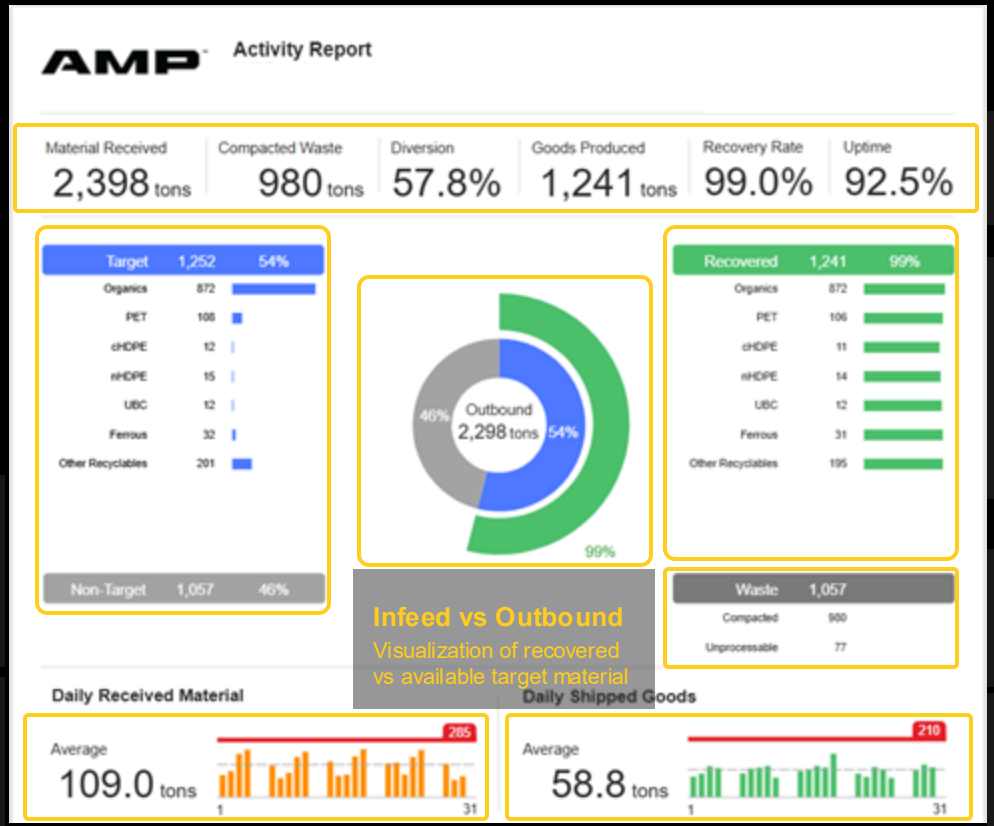
- Sortation optimized for distinct commodities and form factors
- AMP team remotely calibrates the Jet, adjusting firing parameters in real time with tight feedback loops
- Detect material jams and equipment malfunctions in real time
- Customer benefits from continuous learning and optimization

© 2025 AMP™. NERC 2025

EPR Compliance without additional efforts or cost.

Customer's can make informed improvements via our detailed monthly reports, with:

- Waste Characterization
- Diversion
- Recovery
- Mass Balances



Infeed Composition
Calculated by AMP's AI via AMP Vision™
Informs adjustments to offtakes to select.

Received Materials
Informs adjustments to inbound schedules to maintain steady flow.

Infeed vs Outbound
Visualization of recovered vs available target material

Key Metrics
Overall facility performance

Recovered targets
Calculated by AMP's AI via AMP Vision™

Measured success per offtakes and available material.

Captured waste
Compacted residue,, unprocessables, WTE

Shipped Goods
Informs adjustments to outbound schedules to maintain steady flow.

© 2025 AMP™. NERC 2025

AMP ONE EDGE

Significantly Lower Labor Costs

Unparalleled sortation without the inconsistency of manual sorters

90%+ Target Material Recovered

Best-in-class recovery rates without touching a human hand

High Speed, High Flexibility

Highly configurable to target the value in your material stream

Capture More Value

Reduce the value lost to landfills or lower-value mixed bales

Extended Producer Responsibility

Fulfill existing and upcoming EPR requirements with future-proof technology

Scalable Growth

Compact and modular design, easy to scale capacity over time

© 2025 AMP™. NERC 2025

Thank You

Cameron Douglas | cameron@ampsortation.com

© 2025 AMP™. NERC 2025