

Juno™ Technology



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Today's Waste Gap

More garbage

- In the U.S., 170 million tons of waste, goes to landfills or incinerators each year.

Increased awareness

- Consumers globally want to see less material going to landfills and society wants more recycling.

Searching for new solutions

- There is a lot of energy around looking for new innovative recycling solutions.



Georgia-Pacific's Role



- Georgia-Pacific uses approx. 2.5 million tons of recycled fiber a year to make products
- Millions of tons of paper that could be recycled is going to landfills
- Started testing recycling technology about 10 years ago and built a pilot plant in 2013



Juno™ Technology– Process Overview

Sanitize and pulp



Separation and cleaning



Sort solids



Paper Fiber & Biogas



Example of Plastics (Post-Autoclave)

Plastic Cutlery



Balled up Polyethylene



PET Bottles



Bottle caps



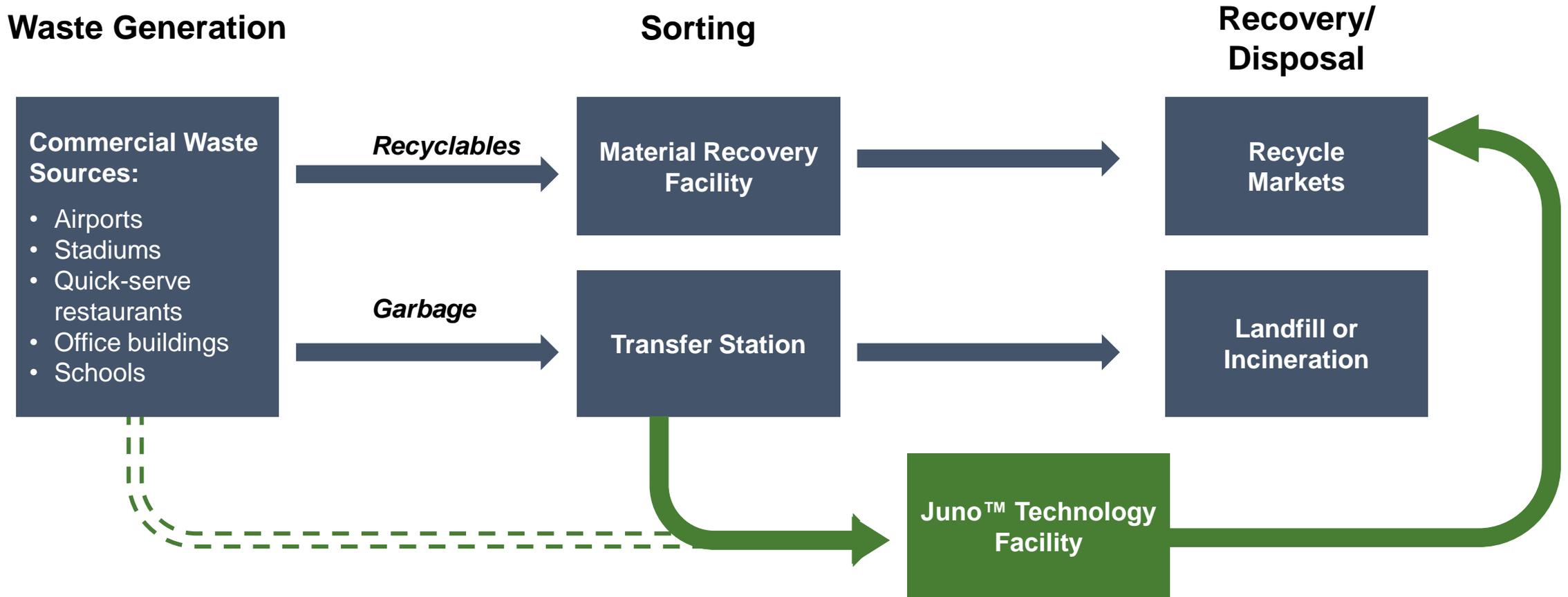


First Commercial Unit

Construction begins this summer on first commercial unit

- Located in Toledo, Oregon
- Unit will process 300 tons/day
- Sourcing up to 100,000 tons/year of commercial waste
- Start up anticipated in late 2020/early 2021

Supply Chain Overview

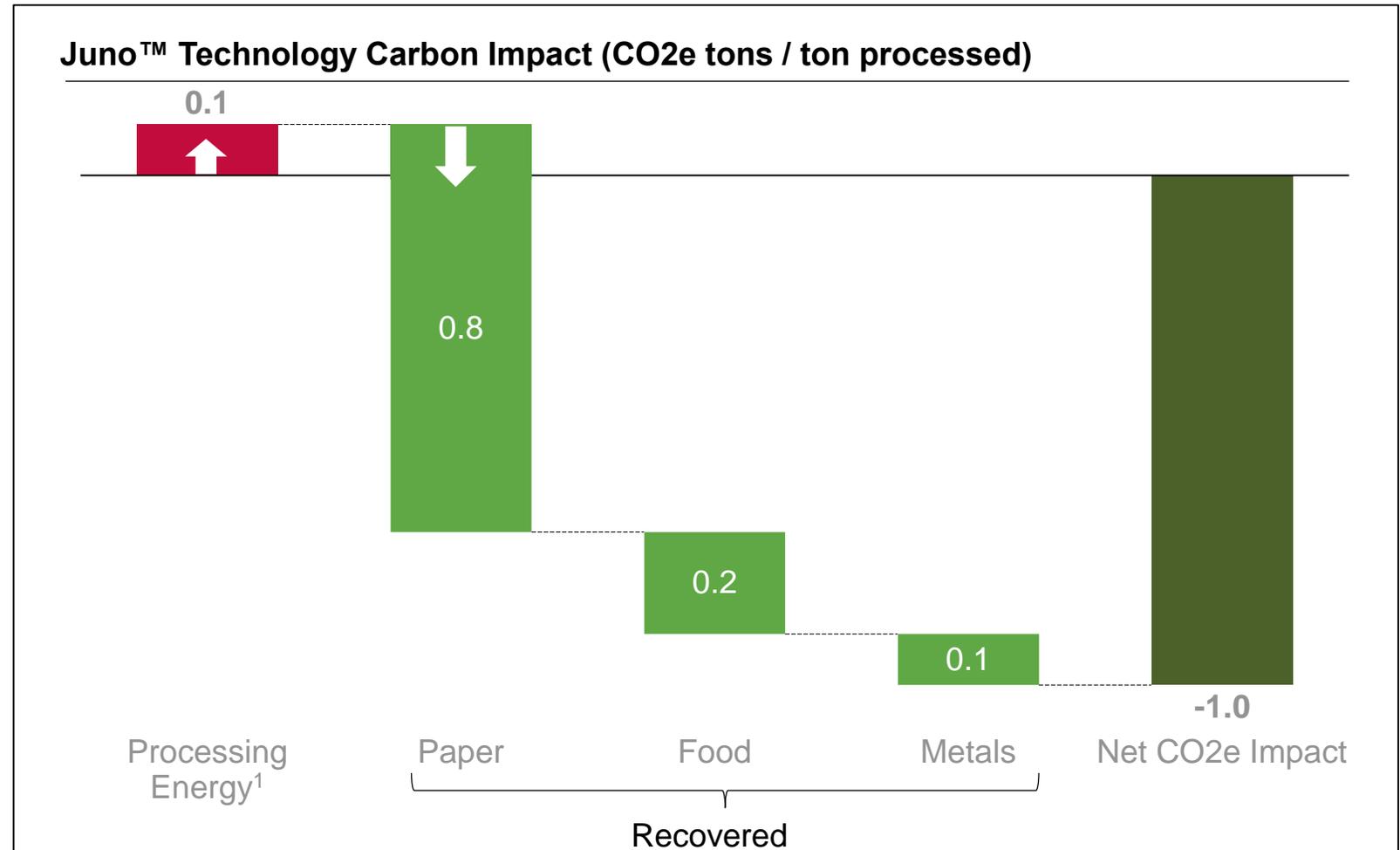


Wrapped Bales of Feedstock



Juno™ Technology Carbon Footprint (preliminary)

- Carbon Dioxide equivalent (CO₂e) – metric commonly used to estimate the “carbon footprint”
- EPA WARM model is the standard for measuring carbon impact in the waste industry
- GP has estimated the CO₂e impact for Juno Technology through the WARM model using Portland Metro’s 2016 waste characterization



1) Estimated through the GaBi model and it's CO₂e impact was applied to WARM output



Thank you!

