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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

Waste Generation

Commercial Waste Sources:
- Airports
- Stadiums
- Quick-serve restaurants
- Office buildings
- Schools

Sorting

Material Recovery Facility

Transfer Station

Recovery/Disposal

Recycle Markets

Landfill or Incineration

Juno™ Technology Facility

Recyclables

Garbage

Sources:
- Airports
- Stadiums
- Quick-serve restaurants
- Office buildings
- Schools
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 its CO2e impact was applied to WARM output
Thank you!