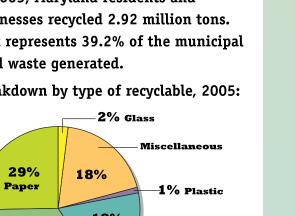
# Follow the Waste Stream

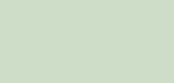
The "waste stream" is a term to describe the entire life cycle of the garbage we produce from putting out the trash and recycling for pickup to landfilling, energy production and the reuse of recycled materials. Let's follow the journey . . .



Depending on where you live, the trash you put out for collection may go to a waste-to-energy facility or a landfill.

• In 2005, Maryland residents and businesses recycled 2.92 million tons. That represents 39.2% of the municipa solid waste generated. • Breakdown by type of recyclable, 2005 — Miscellaneous





## Recycling Facility

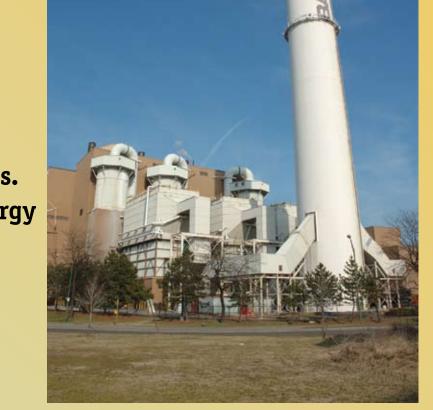


called the "tipping floor." Notice that this is a "single-stream" facility. That makes recycling easier for everyone in the community, since recyclables don't need to be separated for collection.

From the tipping floor, recyclables are placed on conveyor belts where they are sorted by machine or hand into broad categories of paper, plastic, glass and metal.

### Waste-to-Energy Facility

In a waste-to-energy facility, through the use of extremely high-temperature combustion, trash is converted into clean, renewable energy that is used to light homes and heat buildings. **Emissions from the waste-to-energy** facility are thoroughly cleaned using state-of-the-art air quality control systems.



## Landfill

an engineered system designed for safe, environmentally sound long-term waste disposal. Trash



in the landfill and compacted. The landfill's liner and gas and leachate extraction systems protect the surrounding land and water supply, and operating procedures include regular environmental monitoring.

## Paper

Paper recyclables are separated into four

Corrugated Boxes
Old Newsprint (ONP)





and other manufacturers us

these commodities.

Old newspaper is de-inked by washing and rinsing it in large vats of water. This process also separates the short fibers from the long fibers.

Some mills are able to use 100% recycled paper, while in others, recycled paper (long fibers) is combined with wood scraps from lumber mills. This is mixed to a pulp and poured onto large rollers and drained. The sheet is lifted and fed through heated rollers, then trimmed and rolled. The rolls are sent to printing plants.

remanufacturing plant. The plastics are ground up,

are used to make containers, bottles, paint, clothing,

furniture and many other consumer goods.

washed, melted and formed into plastic pellets. The pellets

Consumers buy the products from a

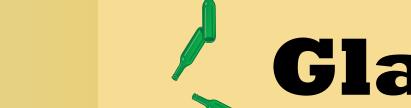
# Choose wisely!

There is currently no economical



# Plastics

Mixed plastic containers are sorted by type and color Air is blown into the mix to separate heavier and lighter plastics. In some facilities, plastic containers are optically scanned for separation into types, such as PET, HDPE, etc.



cleaned of debris and contaminants. Depending on the facilit glass may be sorted by color before or after crushing, or it may be shipped to end users without sorting.

the steel from the rest of the

to the magnet is removed

to a storage bin for baling.

recycling stream. Steel attracted

Aluminum remains on the sort

by an eddy current.

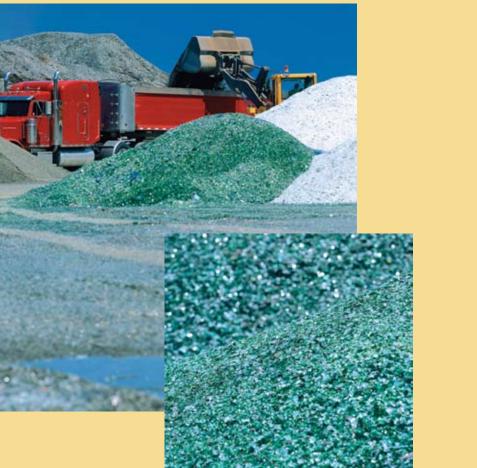
belt and is mechanically separated



road bedding, sandblasting

After separation, cans are crushed and baled

for transport to steel or aluminum mills

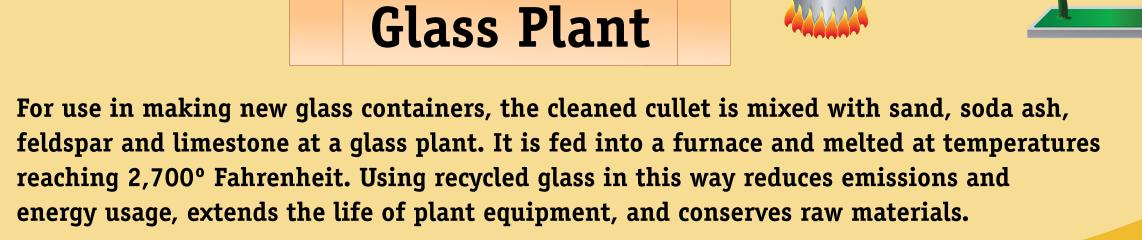


Aluminum

Plant





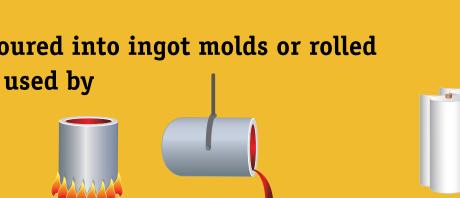


Tin and steel are recovered through chemical and electrolysis baths. Then they are purified, melted and cast

Steel Mill



The steel is heated in large vats and poured onto sheets. The steel is coated with tin and shaped into cans.



The sheets are shaped into

technology for separating waste from recyclable materials. So the success of recycling depends on you: Place recyclables in the proper recycling container.





Recycled containers and products are purchased by manufacturers, who use them to produce or package their products that are shipped to retailers.



wide variety of retail stores. As we use the products, we create waste that begins the cycle all over again.

