

Biomass & By-Product Inventory List

Biomass is organic matter that is available on a renewable or recurring basis, including wood, plants, agricultural residues, animal waste, and the organic components of municipal and industrial wastes. Landfills are full of woody biomass resources from construction, lumber mill activities, disposal of wooden palettes, etc. Wastes from food processing, paper industries and household garbage also contain organic matter that could be converted.

By-product is a secondary or incidental product deriving from a manufacturing process, a chemical reaction or a biochemical pathway, and is not the primary product or service being produced. A by-product can be useful and marketable, or it can have negative ecological impact.

Animal sources

- dried blood and blood meal - from slaughterhouse operations
- chicken by-product meal - clean parts of the carcass of slaughtered chicken, such as necks, feet, undeveloped eggs, and intestines.
- chrome shavings - from a stage of leather manufacture
- collagen and gelatin - from the boiled skin and other parts of slaughtered livestock
- feathers - from poultry processing
- feather meal - from poultry processing
- lanolin - from the cleaning of wool
- manure - from animal husbandry
- meat and bone meal - from the rendering of animal bones and offal
- poultry byproduct and poultry meal - made from unmarketable poultry bones and offal
- poultry litter - swept from the floors of chicken coops
- whey - from cheese manufacturing
- fetal pigs

Vegetation

- acidulated soap stock - from the refining of vegetable oil
- bran and germ - from the milling of whole grains into refined grains
- brewer's yeast - from ethanol fermentation
- cereal food fines - from breakfast cereal processing
- corn stover - residual plant matter after harvesting of cereals
- potato starch or matter
- distillers grains - from ethanol fermentation
- glycerol - from the production of biodiesel
- grape seed oil - recovered from leftovers of the winemaking process
- molasses - from sugar refining
- orange oil and other citrus oils - recovered from the peels of processed fruit
- pectin - recovered from the remains of processed fruit
- sawdust and bark- from the processing of logs into lumber
- soybean meal - from soybean processing
- straw- from grain harvesting

Minerals and petro chemicals

- asphalt - from the refining of crude oil
- fly ash - from the combustion of coal

- slag - from ore refining
- gypsum - from Flue gas desulfurization
- ash and smoke - from the combustion of fuel
- mineral oil - from refining crude oil to produce gasoline
- salt - from desalination

Other

- sludge - from wastewater treatment

Recycling By-Product Materials List

Acid-free paper	Energy recycling	Packaging and labeling
Aggregate (composite)	File folder	Pallet crafts
Alkaline battery	Fluorescent lamp	Paper
Aluminium	Foam take-out container	Paperboard
Artificial turf	Fordite	Plastic
Asphalt	Glass	Plastic bottle
Battery (electricity)	Glass bottles	Plastic mulch
Beer bottle	Graph paper	Plastic shopping bag
Beverage can	Graphite	Polyester
Bioasphalt	Green waste	Polyethylene
Biodegradable plastic	Halogen lamp	Polyethylene terephthalate
Biodegradable waste	High-density polyethylene	Polystyrene
Book	Iggesund Paperboard	Polyvinyl chloride
Bottle	Incandescent light bulb	Radioactive scrap metal
Business card	Incinerator bottom ash	Rechargeable alkaline battery
Button cell	Inkjet paper	Rechargeable battery
Car battery	Iron	Ruled paper
Card stock	Kraft paper	Scrap
Cardboard	Lead	Sewage
Compact fluorescent lamp	Lead-acid battery	Sketchbook
Composition book	Lithium battery	Stainless steel
Computer recycling	Lithium-ion battery	Steel
Construction aggregate	Loose leaf	Stretch wrap
Copper	Low-density polyethylene	Textile
Corrugated fiberboard	Magazine	Tin can
Corrugated plastic	Manila paper	Tire
Deinked pulp	Mason jar	Two-liter bottle
Digger gold	Mayonnaise jar	Wine bottle
Dimension stone	Mercury (element)	Wood ash
Electric vehicle battery	Mercury battery	Writing paper
Electronic waste	Nickel-cadmium battery	
Enameled wire	Nickel-metal hydride battery	