



ONE BIN ♻️ ALL IN

Most people want to recycle right, but it can be hard to sort everything properly. Thanks to the forward thinking of over 100 Maine communities, residents don't have to question themselves anymore!

Now, trash and recycling can go in the same bin because Coastal Resources of Maine separates the recyclables and other valuable materials within the trash and processes them for reuse at one of the most advanced recycling facilities in the country.

Together, we can increase recycling rates, simplify recycling for households, recover organic materials, and lower carbon outputs.

Coastal Resources is powered by Fiberright technology – the result of over a decade of work by scientists and engineers to deliver the next generation of recycling technology.

The state-of-the-art facility boasts the largest anaerobic digester in Maine and can process up to 180,000 tons of trash and recycling a year into recycled products and engineered fuels... keeping both our resources and our homegrown products close to home.

Change the way you think about waste.

Coastal Resources of Maine

TRASH AND RECYCLING PROCESSING FOR MAINE



Coastal
Resources of Maine
POWERED BY FIBERRIGHT TECHNOLOGY

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What happens to **my trash now**
that it's not being incinerated?



Coastal Resources of Maine uses some of the most advanced technology in the country to create many types of recycled products from household trash. More than half of the waste is repurposed instead of going to landfill!

Waste is a resource.

STEP 1: WASTE IN



Trash and recycling are delivered to Coastal Resources of Maine using existing local waste collection systems.

WHY ARE WE DIFFERENT?

Most recycling has to be separated out from the rest of the black bag trash or it just goes to the landfill. Coastal recycles the materials you put in your trash bin, so you don't need to separate them!

STEP 2: SIZE SORTATION



The waste is de-bagged, placed onto a conveyer then split into streams based on the size of the components. Items like textiles and large bulky items are separated out.

PLEASE NOTE:

Keep workers safe. Do not put tires, appliances, needles, tools, or any hazardous waste in your trash.

STEP 3: RECOVERY



Using high-tech optical sorting, magnets, electrical fields, and density, the different types of glass, plastics, metals, and cardboard are recovered from the waste stream and recycled for re-use as a raw material. Plastic bags are removed and sent to step 6.

WHY ARE WE DIFFERENT?

Plastic bags are hard to remove, which is why THEY are typically not recyclable, but Coastal can beneficially reuse them. We use the most advanced systems in the industry to separate out the plastics and metals, which means we recover more and – just as important – what we recover is clean for high-value reuse.

STEP 4 & 5: PULPING & WASHING



The remaining mixture of trash and paper are treated with water. Organic materials dissolve in the water and move on to step 7. The paper is broken down into pulp, which is the building block of new paper.

The pulp is washed. Washing not only cleans the pulp; it pulls out any last remaining organic materials for reuse in step 7.

WHY ARE WE DIFFERENT?

This is the first recycling facility in the US with a pulper! Typically, only clean, standard sheets of paper and cardboard can be recycled. By going to straight to pulp, Coastal can recycle all the fiber-based materials in trash! This includes things like dirty paper plates, coffee cups, and pizza boxes – now they all can be recycled, not landfilled!

STEP 6: ENGINEERED FUEL



Certain components of your trash are not recyclable – but they still can be used beneficially. These materials, like plastic films and wrap, are carefully selected out of the waste stream, processed, and compacted into a briquette. Local businesses use these briquettes for internal energy generation, saving them money and helping them go green at the same time.

WHY ARE WE DIFFERENT?

Coastal's Engineered Fuel is different than incineration of raw waste or "refuse derived fuel," both of which do not undergo the careful selection and processing that occurs at Coastal.

STEP 7: ANAEROBIC DIGESTION



The watery stream of organic wastes, like food leftovers, flow into the anaerobic digester. Like a stomach, this digests the organics into a renewable natural gas, leaving the water clean. The clean water is recycled in a closed loop back into the system. The renewable gas is used to power Coastal, offsetting fossil fuels. In the future, it could also be used locally as a natural gas substitute to lower our community's carbon footprint.

WHY ARE WE DIFFERENT?

Typically, food wastes are landfilled. Here we capture a beneficial value from the waste and reduce our carbon footprint in the process!