Businesses are responsible for just over half of the waste generated in Hennepin County. And nearly two-thirds of the waste created at businesses and non-profits is recyclable.

This chapter will address how to implement commercial waste reduction and recycling programs and options for diverting organic waste in commercial settings. Implementing waste reduction and recycling at multifamily properties, including apartment buildings, condos, and townhouses, is also covered here because most residential buildings with five or more units are serviced like commercial accounts.

Included in this chapter
- Waste collection in a business setting
- Developing and maintaining a waste reduction and recycling program at work
- Environmentally preferable purchasing
- Recycling at multifamily complexes
Waste collection in a business setting

In Hennepin County, the hauling of commercial waste is an open system, which means businesses can select any licensed hauler to collect their waste or they can self-haul to a recycler or drop-off facility.

Recycling is mandated by state law (Minnesota Statute 155A.151) for businesses that generate over four cubic yards of trash per week. However, most communities do not regulate the type of materials included in collection programs for businesses, and some of the mandated businesses still fail to meet the state requirement.

Participation in commercial recycling

For some businesses, recycling provides significant financial savings and is essential to their daily operations. For example, a big box retailer that generates large quantities of cardboard from product shipments and has the ability to store and transfer the cardboard to a paper recycler may get paid for the material rather than paying to have it collected with their garbage or recycling service.

Another example is a major food distributor that generates primarily unprocessed food waste and is able to send it to a compost facility at a lower cost than disposing of that material as trash.

Under these circumstances, the materials generated are large in volume and consistent in quality, making it viable to market the material directly to a processor. The financial savings come from the avoided disposal or recycling collection costs, any revenue generated for the material, and avoidance of solid waste fees. Counties charge fees for solid waste disposal; materials that are recycled are exempt from the fees.

Other businesses find it challenging to participate in recycling programs. For a small business, such as an independent convenience store or clothing boutique where the overall amount of material generated is minimal, recycling collection service may be an additional cost that the business is not willing to absorb. If the amount of materials generated is minimal, avoiding waste disposal fees may not provide much incentive for waste diversion. Additionally, a business in a multi-tenant building may want the service and be willing to pay for it but is limited by a building owner or management company that is unwilling to provide the service.

Additional barriers may include:

- Building or exterior space limitations for storing containers, especially with multi-sort systems.
- Local health and building code requirements for container siting and servicing.
- Additional time required for custodial staff to get materials set out for collection.
- Coordination between multiple tenants, custodial staff, and building owners.
- Limited service options.

Although these commonly referenced barriers may prevent some businesses from participating in recycling programs, they can be overcome.

Developing and maintaining a waste reduction and recycling program at work

Take the following five steps to establish and maintain a successful business waste reduction and recycling program.

**Step 1: Get organized**

**Gain management support**

Management support is critical to the success of the program. Gain support by demonstrating how a waste reduction and recycling program can save the company money, boost employee morale, and save natural resources.

Programs succeed best when management:

- Implements company-wide waste reduction and recycling policies.
- Allocates resources (personnel and money).
- Leads by example by reducing waste, recycling, and buying recycled products.
- Stays committed and involved.
- Supports incentives to reward staff involvement.
- Communicates often and in a variety of ways.
Choose a coordinator
Assign someone to coordinate the program. Choose someone who is enthusiastic, organized, and communicates well with co-workers and management.

The coordinator will:
• Work with others to evaluate which materials can be reduced, recycled, and composted.
• Teach co-workers and management how to reduce, reuse, and recycle waste.
• Coordinate activities with service providers and other company departments.
• Keep everyone in the company informed about the program goals and successes.

If a business has several departments, it may be necessary to create a waste reduction and recycling team to work with the coordinator. The team should include someone from multiple departments, including management, maintenance, production, purchasing, personnel and food service.

Step 2: Look in the bin
A waste assessment will help you become aware of what waste your business creates and how it is managed. Staff can then target opportunities for reduction, recycling and composting.

Deciding where to begin with an assessment depends on the type and amount of waste the company generates.

A waste assessment should address:
• How much waste the business generates.
• Where, how, and why waste is generated.
• What types of materials are being thrown away.
• Where the waste is going and how it is managed.
• The cost of collection and disposal services.
• How much of the waste can be reduced, recycled, or composted.

Complete the assessment using the waste assessment checklist available at hennepin.us/businessrecycling, in the improving recycling and preventing waste tab.

Step 3: Reduce waste
Waste reduction can lower costs in every area of a business – not only in offices, break rooms, shipping, and manufacturing, but also building, equipment, and vehicle maintenance.

The following are effective waste-reduction strategies. Use these ideas to kick off brainstorming conversations about what would work at your office.
• Set printer defaults to print double-sided, and encourage employees to print less.
• Replace plastic cups, plates, and utensils with reusable counterparts.
• Provide reusable dishes in break rooms and kitchens, and encourage employees to bring lunches in reusable containers.
• Adopt green purchasing policies, such as selecting products that are less toxic, conserve energy or water, or use recycled-content materials.
• Reduce packaging waste by buying supplies in bulk and using reusable shipping containers.
• Donate unwanted supplies and other items to organizations or exchange with other businesses. Reuse Minnesota (reusemn.org) and the Minnesota Materials Exchange (mnexchange.org) are good places to start.
• Host green meetings. Limit printing of materials. Offer call in options. Provide information about transit, walking and biking to the meeting. If food is being served, offer organics recycling and make sure foodservice items are reusable, recyclable, or compostable.
• Choose non-hazardous or less-hazardous cleaning products and use reusable towels and rags.
• Evaluate your company’s processes to identify ways to use raw materials more efficiently and use less hazardous alternatives.
**Step 4: Start recycling**

All business can recycle the basics like paper, cardboard, cartons, plastic, metal, and glass. Businesses that produce a lot of food waste and non-recyclable paper, such as napkins, plates, cups, and paper towels, should consider adding organics recycling to their waste diversion efforts.

**Choosing a recycling service provider**

Find out how much you’re paying for waste service by looking at your current waste bill. If a third party handles the billing for your waste, ask them for the trash and recycling information. Check the terms and duration of your waste contract.

Then get quotes from your current waste hauler for adding services such as recycling or organics recycling, and request quotes from at least two other haulers to compare prices. Comparison shopping will help you find the most complete, reliable, and cost-effective option.

Ask the following questions of potential recycling and organics recycling service providers:

- Have you worked with my type of business before?
- What materials do you collect?
- Is there a minimum amount required for collection?
- Do you provide collection containers (desk paper trays, bins, barrels, dumpsters, outside storage containers, etc.)?
- How is the pickup service scheduled (weekly, on-call, etc.)?
- Do you provide educational materials and recycling and/or organics recycling training?
- What are your payment terms?
- Do you require a contract for service and if so, what are the terms of the service contract?

**Set up your program**

Remember the following to set up effective recycling containers:

- Make recycling convenient
  - Create sorting areas by placing recycling, trash and organics containers next to one another. Set up sorting stations where waste is generated and where there is heavy traffic.
  - If employees do not have recycling bins at their desks, consider setting up an intermediate recycling area for approximately every 20 employees. Make sure the recycling area is conveniently located in a high-traffic area, such as by the break room or restroom.

- Put a recycling bin by the mailboxes and copy machine so it’s convenient for people when sorting their mail and making copies.
- When starting an organics recycling program, it may help to start in the kitchen or lunchroom and expand to other areas over time.

- Make recycling easy
  - Use consistent, color-coded containers and signs with images of items to help users figure out what goes where. The idea is to distinguish between the waste streams as much as possible so users are aware that not all waste is trash and to help them easily sort their waste. We recommend blue for recycling, green for organics, and red, black or gray for trash.
  - In addition to color-coding, using different shapes of containers and lids along with signs, labels, or posters can draw attention to the different containers.
  - Place labels and signs on or near containers so users can refer to them to determine how to sort their waste. Consider using multiple signs and labels to reinforce the materials that go in each container.

- Set up your central collection area
  - Place all of your dumpsters/carts together.
  - Clearly label all of your dumpsters/carts to help workers identify quickly and accurately which waste goes where.
  - Include the dumpster area in the training of your cleaning and other staff.
Design with flexibility in mind. Be ready to change initial practices as information is gathered and new handling methods are learned. If the business generates large quantities of materials, consider establishing a pilot program to work out potential problems before expanding the program company-wide.

**Step 5: Spread the word**

Employee participation is critical to success. Gain the support and active participation of upper management immediately. Employees who see their boss reducing, reusing, and recycling are more likely to participate. Make participation easy by educating everyone about the program.

**Announce and promote the program**

Launch the program with a special event or staff party. Then promote the program both internally and, if applicable, throughout the community.

Consider all of your communication channels. Make announcements at staff meetings, post messages on company bulletin boards, send email messages, and post signs and flyers announcing the start of the new or improved program. Include the commitment to reduce waste, recycle, and compost, and clearly explain the new program procedures and how to sort materials. Introduce the program coordinator and provide their phone number and/or email address.

Plan a short monitoring period in which someone stands by the waste station(s) to help employees and/or customers separate their waste correctly into recycling, organics and trash bins. This is particularly important with organics recycling, which is a new concept for many people.

Having someone available to help with sorting and to answer questions reduces contamination and makes for a smoother transition as people learn new habits.

**Hold training sessions**

Training is vital. Everyone who handles waste, including employees, custodial staff, and outside contractors, should understand how the program works.

Staff meetings are ideally suited for training sessions. Both the coordinator and management should be involved in answering questions, providing encouragement, and discussing the program’s needs and successes. Provide employees with a list of materials currently accepted (or specifically rejected) by the recycling program, along with brief instructions on topics such as collection locations and material handling methods.

Plan for staff turnover to ensure continuing success of your program. Include components of the recycling and/or organics program when training new staff or hiring new contractors.

**Keep employees informed and involved**

Once underway, track successes to share with employees and management. Providing regular program updates and positive communication are critical for long-term success.

Here are some suggestions for keeping staff and management informed and involved:

- Send articles about program successes and staff involvement through emails or a company newsletter or internal website.
- Post flyers reminding employees of program goals and progress towards meeting them.
- Create a competition between floors, departments, etc. to see who can improve recycling the most.
- Form a green team or appoint recycling champions to help educate employees and customers, keep everyone informed of the business’ progress, and lead additional environmental efforts.
- Give awards to employees or departments that have demonstrated innovative strategies for waste reduction and recycling.
- Encourage employees to share innovative ideas and solutions.
- Work closely with your waste hauler to monitor progress, or conduct periodic waste assessments to see how you’re doing.
Get recognized for your efforts

Make sure to let customers know about your program! Businesses are evaluated on many aspects of their performance, including their environmental stewardship. Waste reduction and recycling programs show customers and vendors that your business cares about the community and environment. So, share your recycling efforts, goals and results with your customers. Some ideas:

• Send news releases about the program’s accomplishments to community papers as well as environmental and business trade publications.
• Post signs and banners in public areas that inform visitors about the program. Include the statement “printed on recycled paper” on the company’s recycled-content letterhead.
• Motivate other businesses to establish their own programs. Speak at business meetings, workshops, and seminars.
• Sponsor a local cleanup day or take part in community recycling activities and events. Let the community know the business cares.
• Become a Hennepin County Environmental Partner. The Hennepin County Environmental Partners program recognizes businesses for their efforts to recycle and divert organic waste from the trash through composting, sending food scraps to local farmers to feed animals, or by donating edible food. Participating businesses receive decals and other resources to communicate their efforts to their customers and are listed in an online directory. Learn more at hennepin.us/environmentalpartners.

Assistance available from the county

Many resources are available to help make waste reduction, recycling and organics programs successful. Access all of these resources at hennepin.us/businessrecycling.

Grants

The county has grants for businesses, non-profit organizations, and institutions to start or improve recycling and organics recycling programs. Funding can help with the purchase of recycling containers, equipment, hauling services and minor improvements to loading docks and waste enclosures.

Professional staff assistance

County staff also offer the following free services:

• On-site assessments to determine best options and necessary start-up steps.
• Evaluation of potential costs and savings.
• Assistance with internal collection setup.
• Promotional and education materials.
• Follow-up and ongoing assistance.

Container labels

You don’t have to create your own signs – Hennepin County has a variety of signs and labels available for free to all businesses and organizations in the county.
Environmentally preferable purchasing

Purchasing decisions can greatly support waste reduction and recycling efforts. Environmentally preferable purchasing involves choosing products and services that have a lower impact on the environment and human health.

Taking the following steps can help ensure that purchases support waste reduction and recycling efforts:

- Make a company-wide commitment to purchase environmentally preferable products and services.
- Identify purchasing opportunities.
- Revise purchasing policies, ordering practices and product specifications.
- Set realistic, attainable purchasing goals.

Ask the following questions before purchasing any product:

- Do we really need the product? Is there another product that meets our needs and is a better choice for the environment?
- Is the product non-hazardous or less hazardous than other choices? Good resources include Green Seal (greenseal.org) and U.S. EPA Safer Choice (epa.gov/saferchoice), both of which assess products for human health and environmental concerns.
- Is the product reusable, durable, or easily repaired?
- Can we find the product used? Reuse Minnesota (reusemn.org) and the Minnesota Materials Exchange (mnexchange.org) are good resources.
- Is the product made from recycled or compostable materials or renewable resources (such as plant-based raw materials)?
- Will a recycled-content product work in place of one made with virgin materials?
- Does the product conserve energy or water?
- Is the product refillable or available in bulk quantity to reduce packaging?
- Is product leasing an option?
- What happens to the product at the end of its life? Can it be recycled or composted? Does it need special disposal? Will the manufacturer take it back?

Buy recycled

Recycling is more than collecting, processing and turning materials into new products. Success only comes when the recycling loop is closed by purchasing products made from recycled materials.

Businesses can look for opportunities throughout their operations to substitute recycled-content products for those made from virgin materials. In most cases, the quality of recycled-content products is comparable or superior. Look for recycled content in everything from office products and packaging to building materials and raw materials for manufacturing.

Examples of environmentally preferable purchasing

Equipment

- Develop maintenance contracts and purchasing specifications for laser printers and copy machines that support the use of recycled-content paper and remanufactured toner cartridges.
- Purchase used equipment.
- Purchase or lease copiers and laser printers that automatically copy or print on both sides (duplex printing).

Supplies

- Specify chlorine-free, recycled-content paper and soy or agri-based ink when placing printing orders.
- Purchase laser, copy, and letterhead paper with 30 to 100 percent post-consumer recycled paper content.
- Contract with a custodial service that uses less-hazardous (less-toxic) or non-hazardous cleaners.

Products

- Tell your vendor to use waste reduction techniques, such as minimal packaging or returnable shipping containers and pallets.
- Manufacture products and packaging that can be reused, recycled, or composted.
- Evaluate all purchases considering “cradle to grave” costs such as liability, environmental impacts, and employee safety during the manufacture, use, and disposal of a product.
Recycling at multifamily complexes

Nearly one-third of Hennepin County residents live in buildings with five or more units. Most of these properties contract separately for waste and recycling services and are not included in a city’s curbside program.

In the early 1990s, all Hennepin County communities passed ordinances requiring owners of multifamily housing to provide the opportunity to recycle to their tenants. However, the ordinances did not specify which materials were to be collected, and recycling at multifamily buildings continues to be a challenge.

Uncovering the challenges and opportunities for multifamily recycling

In 2017, Hennepin County conducted a waste study to assess how well apartment and condo buildings were recycling. The study looked at the recycling diversion rate, contamination levels in the recycling, and the composition of what was being discarded as trash. The study had three main conclusions.

1. Apartment buildings have low recycling rates and high contamination rates. The study found that only 13 percent of everything being discarded by apartment and condo residents is being diverted for recycling. This is significantly lower than the countywide recycling rate of 41 percent. There is also a lot of contamination in the recycling. About 24 percent of what was put in the recycling was actually trash.

2. There are significant opportunities to divert more materials from the trash. Analysis of the trash found that only 30 percent was truly trash. The remaining 71 percent was materials that likely could be diverted. This included organics (33 percent), recycling (23 percent), bulky/reusable household goods (8 percent), textiles (7 percent) and hazardous waste or electronics (2 percent).

3. Service levels are not adequate. The study also found that typical service levels may not be adequate to collect the amount of recycling generated at apartment and condo buildings. On average, properties provided half the amount of service capacity for recycling as they did for trash. Find the full report from the multifamily waste sort study at hennepin.us/solidwasteplanning, under multifamily waste study.

Improving recycling at multifamily buildings

Developing and maintaining a successful multifamily waste reduction and recycling program requires an onsite champion of the program, conveniently located and well-labeled containers, and ongoing education. Some buildings may need recycling materials in multiple languages for non-English-speaking tenants.

There are many opportunities for MRCs to help improve recycling at multifamily buildings. Some ways to help include:

• Directly educating tenants through door knocking that includes distributing educational materials and answering questions.
• Assisting complexes with new or revamped recycling program set-up.
• Giving presentations that provide information about the building’s recycling system to tenants and answer recycling questions.
• Connecting property owners to outlets for bulky-waste diversion, such as unwanted furniture and mattresses.
• Establishing onsite community gardens and composting bins for tenants.

Prior approval from the property management and/or owner needs to be obtained before activities are initiated. Hennepin County has a variety of materials available including container labels, posters, and educational materials in different languages. See the resources available at hennepin.us/apartmentrecycle.
Resources

- **hennepin.us/businessrecycling**: Information about recycling grants, professional staff assistance, free container labels, and more resources available to help businesses and organizations start or improve recycling programs.

- **hennepin.us/environmentalpartners**: Businesses can get recognized for their efforts to recycle and divert organic waste from the trash.

- **hennepin.us/apartmentsrecycle**: Information and free resources for property owners or residents interested in establishing or improving recycling programs at multifamily properties.

- **mnexchange.org**: The Minnesota Materials Exchange is a free service for businesses that connects organizations that have high quality, reusable goods they no longer need to those that can use them. Businesses can find low-cost or free materials and find new markets for surplus materials.

- **mnwastewise.org**: Private, non-profit, member-supported organization affiliated with the Minnesota Chamber of Commerce that helps businesses reduce waste and save money.

- Print resources for businesses: order print copies at **hennepin.us/businessrecycling**
  - Business recycling best practices guide
  - Recycling at work guide
  - Organics recycling at work guide

- Print resources for multifamily complexes: order print copies at **hennepin.us/apartmentsrecycle**
  - Recycling at your building brochure
  - Recycling advocate recruitment flyer
  - Apartment recycling poster
  - Recycling door hanger
  - Recycling request business card