REPORT TO THE LEGISLATURE

# Recycling Market Development Center

# Legislative Report for 2023 and 2024

## Introduction

Ecology and the Washington Department of Commerce (Commerce) conduct the work of the Recycling Market Development Center (Center). The Center provides or facilitates basic and applied research and development, marketing, and policy analysis in furthering the development of markets and processing for recycled commodities and products.

This report updates the Legislature on the Center’s progress and activities as required by (Revised Code of Washington (RCW) [70A.240.030](https://app.leg.wa.gov/RCW/default.aspx?cite=70A.240.030)(3)[[1]](#footnote-1)):

The center must perform the following activities:

(k) Report to the legislature and the governor each even-numbered year on the progress of achieving the center's purpose and performing the center's activities, including any effects on state recycling rates or rates of utilization of postconsumer materials in manufactured products that can reasonably be attributed, at least in part, to the activities of the center.

The Center team includes staff at Ecology and Commerce who work in collaboration with a diverse advisory board. The Center’s work focuses around the following four pillars:

* **convene** discussions
* supporting **innovation**
* conducting **research**
* providing business **assistance**.

### Summary and next steps

**The Center continued to bring people together on a variety of topics at board meetings, facility tours, and summits on glass recycling. The Center invested in innovations, completed research into glass, plastics, and textiles, and provided a wide range of business assistance.**

Impacts to Washington’s recycling economy in the past two years included the closure of two paper mills and one glass manufacturing operation due to impacts from international markets and lowered domestic demand. Recyclable paper continues to be collected and processed by Washington’s other paper mills. Residential glass collection has ceased in some communities along the I-5 corridor while alternative end markets are established.

Glass container recycling is on the rise in central Washington due to the hub and spoke collection system delivering material to the glass recycling facility in Kalama. A groundbreaking ceremony was held for a facility in Longview that will process food waste.

**Next steps for 2025 and 2026:**

**Work in the next two years will focus on the Center’s four pillars:**

## ****Convene:**** continue to facilitate quarterly advisory board meetings, conduct more site visits, and host webinars or summits for textiles and agricultural plastics.

## ****Innovate:** invest in reuse infrastructure and the** NextCycle Washington business accelerator program.

## ****Research:**** share information about Washington’s agricultural plastic waste, textile waste management, and management of construction and demolition materials.

## ****Business assistance:**** provide support to businesses inquiring about opportunities to expand or locate in Washington.

### Recycling impacts

Since June 2023, Big Industry Glass Recyclers[[2]](#footnote-2), in partnership with the Glass Packaging Institute, operates the hub and spoke collection service for container glass in Central Washington. The program includes a fee at drop-off for the collected glass with over 20 wineries paying membership dues to use the service. Collection sites are in Dayton and Walla Walla, with an aggregation site in Pasco. Collected glass is delivered to the O-I glass manufacturing facility in Kalama. Many other communities are interested in accessing this service, including Chelan, Wenatchee, Spokane, and Yakima. The success of this program resulted from the combination of two project ideas during the 2023 NextCycle Washington accelerator program.

In September 2023, the Tacoma paper mill owned by the WestRock Company permanently ceased operations impacting 400 workers and discontinued production of Kraft, white top liner, and bleached pulp. The high cost of operations and need for capital improvements were factors in the decision to close this facility[[3]](#footnote-3). Paper recycling has not been impacted by this facility closure.

In September 2023, Divert, Inc., held a groundbreaking ceremony for their proposed integrated diversion and energy facility in Longview[[4]](#footnote-4). The facility will have a processing capacity of 100,000 tons of food waste per year creating 40 new jobs. The facility will accept food waste from retail food customers, as well as agricultural food producers, industrial food manufacturers, local jurisdictions, restaurants, foodservice, institutional, or commercial waste generators.

In June 2024, the McKinley Paper Company in Port Angeles shut down operations that impacted 200 employees and discontinued the production of recycled containerboard. The mill currently sits idle waiting for market conditions to improve for their product[[5]](#footnote-5). Conversations are underway to identify next steps and solutions for this facility and paper recycling in the region.

In July 2024, the Ardagh Group closed the glass manufacturing facility in Seattle, impacting 250 workers. The closure was caused by ongoing pressure from low-priced imports from China, Chile, and Mexico, and market conditions[[6]](#footnote-6). This resulted in glass processing reductions by Strategic Materials, Inc., the glass processor in Seattle. Those reductions impacted the collection of curbside and drop off glass for jurisdictions around Washington. The Center provided support to King County Solid Waste Division in their glass recycling discussions with impacted stakeholders.

### Overview of the Center

Staff at Ecology and Commerce conduct the business of the Center in collaboration with a diverse advisory board. Accomplishments in 2023 and 2024 focused on the four pillars of convene, innovate, research, and assistance.

#### Convene Discussions

The Center facilitated advisory board meetings, provided presentations, hosted glass summits, and conducted business tours. Future efforts include convening quarterly advisory board meetings, visiting more end market businesses, and hosting material specific summits or webinars.

**Advisory Board Meetings:** The Center advisory board represents public agencies, private industry, universities, and nonprofits. Current board members are listed below:

* Karl Englund, Washington State University
* Sara Holzknecht, Bellevue College
* Allen Langdon, Circular Materials
* Carly Mick, University of Oregon
* Preston Peck, City of Tacoma
* Jocelyn Quarrell, Bold Reuse
* Tim Shestek, American Chemistry Council
* Jay Simmons, North Pacific Paper Company
* Jon Smeija, GreenBiz
* Matt Thurston, Recreational Equipment Inc.
* Heather Trim, Zero Waste Washington
* Jeff Zillich, WM
* Vacant, eastern county representative
* Vacant, western county representative

The advisory board website[[7]](#footnote-7) contains links to board meetings, agendas, notes, and slides. Each board meeting included updates from board members, Ecology, and Commerce followed by industry expert presentations focused on specific recyclable materials, market challenges, and opportunities. The following recyclable materials topics were covered at each board meeting:

* **March 2023:** legislative update from Julie Robertson of Ecology, presentations by board members Natalie Caulkins of Republic Services and Allen Langdon of Circular Materials followed by an update from Kevin Kelly from Ridwell, Inc.
* **June 2023:** presentations on economic and business analysis of recycling from Western Washington University, summary of the Recycle Right campaign by Dan Weston of Ecology, summary of college recycling challenges from board member Scott Morgan at Evergreen State College, Lexi Brewer at University of Puget Sound, and Shannon Britton from Seattle University, thermoset recycling from board member Karl Englund at Washington State University, and expanded polystyrene recycling by Marilyn Lauderdale from StyroRecycle, LLC., in Kent.
* **October 2023:** review of the organics management law[[8]](#footnote-8) by Chery Sullivan of Ecology, Center efforts and projected future focus by Kara Steward of Ecology, and Center’s prioritization tool by Mya Keyzers of Ecology.
* **January 2024**: recycling textiles challenges from Patricia Townsend and Martha Aitken from Washington State University on a study of hotel linen recycling and from Dr. Hang Liu from Washington State University on cotton fiber recycling research.
* **April 2024**: Washington disposal data waste impact analysis by Gretchen Newman from Ecology followed by reuse and repair activities from Josh Epstein of the Shoreline Tool Library in Shoreline, Ming-Ming Tung-Edelman of Refugee Artisan Initiative’s textile reuse work in Lake City, and Xenia Dolovova of the Furniture Repair Bank’s efforts to refurbish and distribute furniture in Seattle.
* **August 2024**: Washington construction and demolition data by Gretchen Newman from Ecology, Dave Bennink of Building Deconstruction Institute & Re-Use Consulting, Katie Kennedy at Seattle Public Utilities, Hanna Waterstrat, Department of Commerce with an update on the Buy Clean Buy Fair law.
* **October 2024**: presentations on mattress recycling challenges from Mike O’Donnell of the Mattress Recycling Coalition, Alex Erzen from King County Solid Waste Division, and Mike Zachman from the Arlington Recycling Warehouse.

**Presentations: In addition to the quarterly board meetings,** Center staff regularly present to communities or at conferences about the work of the Center or on specific material topics:

**Solid waste advisory council** presentations covered the duties and opportunities offered by the Center at the Clallam, Jefferson, and San Juan council meetings. These presentations continue to be available for other solid waste advisory councils as requested.

**Precycle Materials Exchange Network** meeting in Spokane included an introduction to the Center and an overview of materials in Washington’s solid waste stream.

**Textile**-focused presentations were provided at the Washington State Recycling Association conference with a panel of experts, California’s Recycling Market Development Zone Works miniseries session on textiles, and the Northeast Recycling Coalition’s textile webinar series on community planning.

**Glass Recycling Summits:** The Center convened two summits focused on issues around recycling of container glass. Those meetings were facilitated by Ecology and open to all interested parties. Find the meeting notes, agenda, and slides at the advisory board [website](https://www.ezview.wa.gov/site/alias__1962/37596/recycling_development_center_advisory_board.aspx)[[9]](#footnote-9).

**May 2023**: Hosted at Ecology’s office in Union Gap with presentations on policy issues, glass container recycling, innovations, and operations that included presentations on policy: Kara Steward, Ecology; Scott DeFife, Glass Packaging Institute; historic overview: Dan Weston, Ecology; community efforts: City of Walla Walla report, Shane Prudente; 911 Glass Rescue, Tom Tochterman; Ellensburg Glass Recycling Cooperative, Suzanne Noble; Waste Loop, Ariahna Jones; glass research: Washington State University, Haifang Wen; hub and spoke model: Scott DeFife, Glass Packaging Institute; Chris Lueck, BIG Recyclers; and end markets: Laura Hennemann, Strategic Materials; Robert Hippert, O-I Glass; Alex Winters, Ardagh Glass; Alan Rogers, Aero Aggregates.

**May 2024**: Online presentations about wine bottle packaging reduction, JJ Williams, Kiona Vineyards; beer bottle packaging reuse, Matt Swihart, Double Mountain Brewery; wine bottle packaging reuse, Adam Rack, Revino; and hub and spoke collection system update, Scott DeFife, Glass Packaging Institute; Chris Lueck, BIG Recyclers.

**Facility Tours:** The Center conducted facility tours to learn more about materials recovered, reused, and recycled:

* [McConkey Growers](https://mcconkeyco.com/pages/about-us)[[10]](#footnote-10), Sumner, March 2023, makes horticultural goods from 100% recycled plastic.
* [StyroRecycle](https://styrorecycle.com/)[[11]](#footnote-11), LLC, Kent, June 2023, accepts and processes expanded polystyrene, clear bubblewrap, clear plastic wrap, and cardboard to be remanufactured into new products.
* [Shoreline Tool Library](https://seattlereconomy.org/stl/)[[12]](#footnote-12), Shoreline, February 2024, provides reused building materials for sale, tools for lending, and game, toy, and seed libraries.
* [Refugee Artisan Initiative](https://refugeesarts.org/)[[13]](#footnote-13), Seattle, February 2024, partners with refugee and immigrant women to learn skills and handcraft goods from recyclable materials.
* [Furniture Repair Bank](https://www.repairbank.org/)[[14]](#footnote-14), Seattle, February 2024, revives unwanted furniture and provides it to families in need.
* [Ravel](https://www.ravelfuture.com/about)[[15]](#footnote-15), Seattle, February 2024, recycles blended textile fibers back to mono-material feedstocks, resulting textile derived pellets to be transformed back into fiber, yarn, fabric, and eventually clothing.
* [Prairie Underground](https://www.prairieunderground.com/)[[16]](#footnote-16), Seattle, May 2024, makes sustainable women’s attire, hosted an event for [Northwest Sewn](https://seattlegood.org/our-programs/#nwsewn)[[17]](#footnote-17), an initiative to grow and support sewn-trades jobs and employment.
* [Washington State Surplus](https://www.des.wa.gov/services/dispose-surplus/about-surplus-storage)[[18]](#footnote-18), Tumwater, May 2024, receives and redistributes surplus items from state and public agencies to other state agencies, governmental entities, and private non-profit organizations
* [Arlington Recycle Warehouse](https://recyclewarehouse.org/)[[19]](#footnote-19), Everett, June 2024, accepts and processes mattresses and box springs for recycling, also accepts appliances and lawn equipment
* [Composite Recycling Technology Center](https://compositerecycling.org/)[[20]](#footnote-20), Port Angeles, July 2024, recycles carbon fiber into functional products and creates cross-laminated timber from locally grown western hemlock.
* [San Juan Transfer Station](https://www.sanjuantransferstation.com/)[[21]](#footnote-21) and [Orcas Island Exchange](https://exchangeorcas.org/tag/lopez-island/)[[22]](#footnote-22), San Juan County, August 2024, managing waste and recycling for an island community, the Exchange goes beyond just a transfer station and recycling services to include a successful reuse facility.

#### Support Innovations

**The ReUse Commons: The Center worked with** [Seattle ReConomy](https://seattlereconomy.org/)[[23]](#footnote-23) **and the City of Seattle on the development of a ReUse Commons in King County. With plans to open in late 2025 or early 2026 the ReUse Commons will house an array of businesses and programs in the reuse, repair, and circular economy community. The ReUse Commons will be a one-stop-shop for getting and getting rid of items sustainably with focus on equitable access for communities who are typically underserved.**

**NextCycle Washington:** The Center supports the [NextCycle Washington](https://www.nextcyclewashington.com/)[[24]](#footnote-24) circular economy project providing opportunities to businesses and communities across Washington. A circular economy helps keep materials in circulation at the highest value for as long as possible to eliminate waste and support natural regeneration. NextCycle Washington’s business accelerator provides technical support and networking connections to integrate local businesses and organizations working in Washington’s waste prevention, reuse, repair, and recycling economy into the circular economy. The business accelerator consists of a 6-month training program culminating in a pitch competition in front of potential investors.

NextCycle Washington’s support of innovative projects reduces materials in Washington’s waste stream through reuse and recycling projects, increasing jobs, economic growth, and greenhouse gas reductions. Investment in Washington’s circular economy supports local ideas that address waste prevention and innovative recycling for businesses and residents of Washington State.

In 2023, the initial year of NextCycle Washington, there were 14 business accelerator teams. Additionally, grants of up to $10,000 each were awarded to 41 teams working on waste prevention and recycling. During this period, NextCycle Washington's 14 accelerator teams created 70 jobs, diverted 4 million pounds of materials from the landfill, and raised $13 million in capital investments (reference <https://www.nextcyclewashington.com/s/NCWA-Year-End-Report.pdf>).

Forty-one organizations received NextCycle Washington grants from Commerce and King County grant funds. Each team received up to $10,000 in grant funding along with technical assistance and administrative support from the NextCycle Washington consultants. In total, 93% of awarded grant funds were spent by the end of the grant period. Teams used consultant support for general business issues, strategic and operational issues, communications, marketing, and site development, research, and mapping assistance. Teams used the grant funds to hire staff and interns, provide training and workshops, complete project feasibility analysis, complete software programming, connect with other organizations and develop partnerships, fund consultant support, built out pilot project facilities, and covered project operational costs.

Based on follow-up interviews, the 2023 NextCycle Washington accelerator and grant teams collectively created 117 jobs, diverted over 5 million pounds of materials from the landfill, and raised nearly $50 million in capital investments.

In 2024, NextCycle Washington’s accelerator accepted [13 entrepreneurs](https://www.nextcyclewashington.com/news-collection/cohort-2-team-selection-nextcycle-washington-accelerator)[[25]](#footnote-25), non-profits, and community teams from a field of applicants across the state. During the six-month program teams received consulting, technical, business and marketing support along with connections to potential partners, suppliers, and funders. On September 23, 2023, teams competed in a pitch showcase for monetary awards.

In 2025, another round of accelerator teams will work through the six-month programming. That pitch competition is scheduled for May 2025.

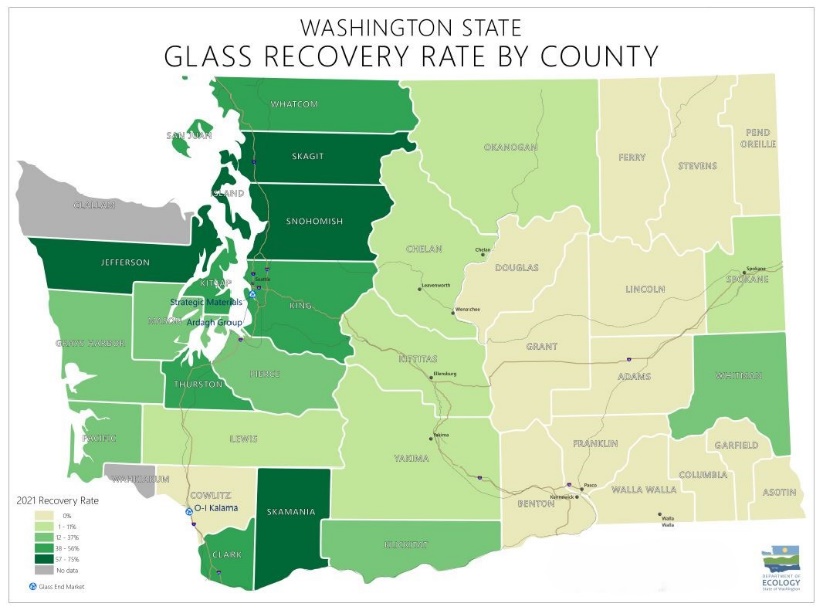
#### Conduct Research

**Market Development:**

University of Washington Evans School of Public Policy and Governance researched market development efforts[[26]](#footnote-26) in other U.S. state to inform the Center’s future work. This research recommended the Center work with stakeholders to develop partnerships, work to fill data gaps, and develop clear priorities that incorporate equity. Future efforts include continuing to convene stakeholders.

**Glass research:**

The Center analysis of Washington’s data provided a snapshot of residential glass recovery by county using data from 2021. The Center provided several data summaries to the attendees of both glass packaging summit meetings. Figure 1 provides a visual of the 2021 glass recovery rate for each county in Washington. Future efforts include continuing to track glass container recovery around the state and help when needed. This figure does not reflect changes to glass collection experienced in 2024 with the closure of the Ardagh glass manufacturing facility.



**Figure 1 Glass recovery rate by county using 2021 data.**

**Textiles outreach:**

Outreach on the use and management of textiles in Washington identified a lack of detailed information on secondary thrift markets, the need for investment in reuse and repair of textiles, and opportunities for collaboration. Current textile efforts include attending and participating in local textile discussions, convening discussions about sustainable solutions for uniform manufacturing.

**Agricultural plastics outreach:**

Research into use of plastics in Washington’s agricultural industry started with outreach to farmers, non-profits, trade associations, academia, businesses, and recyclers. These interviews revealed a gap in the data on use, management, and disposal of agricultural plastics. The Center identified this data gap as a priority for future research. Future efforts include conducting a gap analysis of agricultural plastics in 2025.

#### Business Assistance

The Center regularly provides information to businesses inquiring about recycling and waste data. The Center partners with Commerce through an interagency agreement as directed by [RCW 70A.240.030 (4)](https://app.leg.wa.gov/RCW/default.aspx?cite=70A.240.030)[[27]](#footnote-27). Commerce’s Circular Economy Unit develops and administers programs to advance industrial waste reduction, recycling innovation, and job growth across Washington. The Circular Economy Unit collaborates with the Ecology team to provide a variety of business development services—including business recruitment, retention and expansion—through supportive tactics including industrial site selection, tax incentive analysis, identification of potential funding opportunities, and related technical assistance tools such as those identified on the [Choose Washington](https://choosewashingtonstate.com/)[[28]](#footnote-28) website.

Of highlight is Commerce’s flagship program, the industrial symbiosis grant program ([RCW 43.31.635](http://app.leg.wa.gov/RCW/default.aspx?cite=43.31.635)[[29]](#footnote-29)), which annually funds projects that innovate one industry’s waste streams into valuable resources to benefit another. Funded projects have transformed waste heat, water, materials and residuals and biomass to reduce greenhouse gas emissions and contribute toward Washington’s overarching goals for a cleaner future.

The list below identifies some of the recent and ongoing conversations that include domestic and foreign investment:

|  |
| --- |
| Atlas Agro |
| Brightmark |
| Carbotura |
| Cascadia Produce |
| Center for Sustainable Infrastructure |
| Columbia Marketing International |
| Corumat |
| Creative Energy |
| Divert, Inc. |
| Double Diamond Fruit Co. |
| Evergreen Recycling |
| FibroCorp |
| Heidelberg Materials |
| KILOWS |
| KOSME, Korea |
| Lamb Weston |
| Lightning Protection International |
| Myno Carbon |
| Nouryon |
| Project Hyas |
| Qualterra |
| Republic of Estonia delegation |
| Rockwool |
| Royal Danish Embassy |
| Royal Family Farming |
| Terratico |
| The Soil Center |
| Tidal Vision |
| WA Pulp and Paper Foundation |
| Waste Loop |
| Wilcox Farms |

#### Budget summary

Table one provides the status of the Center budget for the current biennium, that covers July 1, 2023, to June 30, 2025. Center funding comes from the Waste Reduction, Recycling, and Litter Control Account. Funding for NextCycle Washington includes Environmental Protection Agency (EPA) grant funds from the [Solid Waste Infrastructure for Recycling](https://www.epa.gov/infrastructure/solid-waste-infrastructure-recycling-grant-program)[[30]](#footnote-30) program. The table reflects June 2023 through August 2024 spending totals.

**Table 1 – Center funding status for June 2023 to August 2024**

|  |  |  |
| --- | --- | --- |
| Center work | Two-year Budget | Spent through August 2024 |
| Ecology and Commerce staff | $ 1,397,297 | $ 628,498 |
| NextCycle Washington\* | $ 820,000 | $ 378,869 |
| Other Projects | $ 100,000 | $ 0 |
| TOTAL | **$ 2,317,297** | **$ 1,007,367** |

\*Includes EPA grant funding of $390,075

In September 2024, Ecology submitted a request to the Governor’s office for increased Recycling Market Development Center funding. The $2 million per biennium request would invest in the NextCycle Washington business accelerator and allow for additional research to support market development.

## Next Steps

Ecology, Commerce, and the Center advisory board continue to collaborate on research and development, marketing, and policy analysis for recycling market development.

For the next two years, work will continue under the Center’s four pillars:

## ****Convene:**** continue to host quarterly advisory board meetings, conduct more site visits at businesses and community efforts related to end market, host material specific summits or webinars, and present on Center efforts.

## ****Innovate:**** efforts of NextCycle Washington will continue into 2025 and 2026 with at least one business accelerator program scheduled each year. The impact on Washington from these innovative efforts will be monitored.

## ****Research:**** needs have been identified for agricultural plastic waste, textile management, and construction and demolition materials. A University of Washington Evans School of Public Policy and Governance project on textiles and the thrift industry is anticipated for 2025.

## ****Business assistance:**** continue to provide support for businesses inquiring about opportunities to expand or locate in Washington.

## ****Publication information****

This report is available on the Department of Ecology’s website at <https://apps.ecology.wa.gov/ecy/publications/SummaryPages/xxxxxxx.html>

Cross-referenced or relevant documents.   
Publication 20-07-022: [2020 Recycling Development Center Report to the Legislature](https://apps.ecology.wa.gov/publications/SummaryPages/2007022.html)[[31]](#footnote-31)

Publication 22-07-032: [2022 Recycling Development Center Report to the Legislature](https://apps.ecology.wa.gov/publications/SummaryPages/2207032.html) [[32]](#footnote-32)

## Contact information

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**Website[[33]](#footnote-33):** [Washington State Department of Ecology](https://ecology.wa.gov/contact)

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1. https://app.leg.wa.gov/RCW/default.aspx?cite=70A.240.030 [↑](#footnote-ref-1)
2. https://bigrecyclers.org/ [↑](#footnote-ref-2)
3. https://ir.westrock.com/press-releases/press-release-details/2023/WestRock-Announces-Plans-to-Close-Tacoma-Wash.-Paper-Mill/default.aspx [↑](#footnote-ref-3)
4. https://divertinc.com/divert-breaks-ground-on-new-facility-in-washington-state/ [↑](#footnote-ref-4)
5. https://www.myclallamcounty.com/2024/06/25/mckinley-to-shutter-port-angeles-mill/ [↑](#footnote-ref-5)
6. https://www.seattletimes.com/business/seattle-bottle-maker-caught-in-bud-light-brouhaha-lays-off-hundreds/ [↑](#footnote-ref-6)
7. https://www.ezview.wa.gov/site/alias\_\_1962/37596/recycling\_development\_center\_advisory\_board.aspx [↑](#footnote-ref-7)
8. https://ecology.wa.gov/waste-toxics/reducing-recycling-waste/organics-and-food-waste/2022-organics-management-law [↑](#footnote-ref-8)
9. https://www.ezview.wa.gov/site/alias\_\_1962/37596/recycling\_development\_center\_advisory\_board.aspx [↑](#footnote-ref-9)
10. https://mcconkeyco.com/ [↑](#footnote-ref-10)
11. https://styrorecycle.com/ [↑](#footnote-ref-11)
12. https://seattlereconomy.org/stl/ [↑](#footnote-ref-12)
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17. https://seattlegood.org/our-programs/#nwsewn [↑](#footnote-ref-17)
18. https://www.des.wa.gov/services/dispose-surplus/about-surplus-storage [↑](#footnote-ref-18)
19. https://recyclewarehouse.org/ [↑](#footnote-ref-19)
20. https://compositerecycling.org/ [↑](#footnote-ref-20)
21. https://www.sanjuantransferstation.com/ [↑](#footnote-ref-21)
22. https://exchangeorcas.org/tag/lopez-island/ [↑](#footnote-ref-22)
23. https://seattlereconomy.org/ [↑](#footnote-ref-23)
24. https://www.nextcyclewashington.com/ [↑](#footnote-ref-24)
25. https://www.nextcyclewashington.com/news-collection/cohort-2-team-selection-nextcycle-washington-accelerator [↑](#footnote-ref-25)
26. https://apps.ecology.wa.gov/publications/SummaryPages/2307024.html [↑](#footnote-ref-26)
27. https://app.leg.wa.gov/RCW/default.aspx?cite=70A.240.030 [↑](#footnote-ref-27)
28. https://choosewashingtonstate.com/ [↑](#footnote-ref-28)
29. http://app.leg.wa.gov/RCW/default.aspx?cite=43.31.635 [↑](#footnote-ref-29)
30. https://www.epa.gov/infrastructure/solid-waste-infrastructure-recycling-grant-program [↑](#footnote-ref-30)
31. https://apps.ecology.wa.gov/publications/SummaryPages/2007022.html [↑](#footnote-ref-31)
32. https://fortress.wa.gov/ecy/publications/SummaryPages/1904029.html [↑](#footnote-ref-32)
33. www.ecology.wa.gov/contact [↑](#footnote-ref-33)