# 2024 Glass Summit Notes and links provided in the chat.

## Mya Keyzers - 2023 Summit updates.

* Updates on the topics the speakers covered from last year (thanks again to all of them and for the updates), I will go in order of the agenda last year, starting with policy.
* Kara and Scott DeFife explained extended producer responsibility (EPR) and deposit return system (DRS) policies last year and *in 2023* the *WRAP* act *(HB1131)* had just failed to pass which was a very large bill combining, EPR for packaging and printed paper, DRS, and changes to the PCRC (*post-consumer recycled content*) law. In the 2024 session the EPR and DRS portions were separated and introduced as independent bills.
* *In 2024,* ReWRAP HB 2049 (*new number*) was the extended producer responsibility for packaging and printed paper, it included recycling and reuse targets as well as the PCRC changes. It did not get placed for a vote on the House floor. It is expected to be introduced again next session. If it is like the last few years and it passes it would change the way glass packaging is currently handled. It would be required that all *households* have access to recycling their glass packaging. Reuse targets would be incentivized, *the bill includes a grant program* dedicated to supporting reuse *for packaging, including glass.*
* Deposit Return System (DRS) or Bottle Bill HB 2144 would have established a system to return beverage containers by using a 10-cent refund incentive. These systems can *also collect reusable bottles and* include return for sanitization and refilling. It isn’t known if it will be coming back next year.
* Dan Weston gave us an update on state of glass recycling in Washington using the 2021 data, and there is no new data for an update. But I did want to share the Waste in Washington StoryMap. It is filled with interesting data. The link is in the chat. It is a living document, and tables and graphs will be updated as new data sets are available.
* The City of Walla Walla’s council members voted no on adding glass recycling curbside based on the options laid out in the report we learned about last year. The added *household* cost of $2.60 a month for glass recycling was concerning to some council members. However, Walla Walla’s Sustainability Committee has listed glass as a top priority so this topic may be revisited in 2024. Thank you for the update, Dillion Crawford who is the new communications Coordinator for the publics works department.
* 911 Glass Rescue in Lake Chelan is still going strong, they have crushed 380 tons. They have a couple projects coming up that will be using 5% of their sand in a hot asphalt mix. There are several projects in the City of Chelan with the Public Works Department, for roads and bedding/planting areas. Thank you, Julie McCoy, for the update.
* Ellensburg Glass Recycling Cooperative (EGRC) continues to crush 2 tons of glass a month from Kittitas and Yakima counties. A local contractor is using most of the sand for LEED projects. The second most popular use of their sand is playing sand. They have trained 20+ new glass ambassadors and 5 new shrub steppe sea glass makers. The Yakima Habitat for Humanity is offering home builders their Shrub Steppe Sea Glass for landscaping around electrical boxes, and they are even considering buying their own cement mixer to replicate the sea glass production on site at their Restore. Thank you, Suzanne Noble, for the update.
* Both 911 Glass Rescue and EGRC are in contact with Glass Silicates, a company making potassium silicate fertilizer they are interested in building a plant that would use one hundred metric tons of glass sand per year. It sounds like they are in the fund sourcing stage.
* Waste Loop is still offering the same community collection, they upgraded their trailer and are taking an average of four tons of glass to Strategic Materials every 2-3 weeks, with a total of 74.5 tons since April 2023. They would like to expand by building a bunker at the local Dryden transfer station to hold 100’s of tons of glass and then have Strategic Materials come and haul ~30 tons loads, the details for this change are still being worked out. Thank you, Ariahna Jones for the update.
* Haifang Wen, the professor from WSU who was instrumental in doing the testing of the glass sand in hot mix asphalt that has made 911 Glass Rescue’s new road projects possible, is now conducting research on the use of foamed glass for roadway applications, similar product to what Alan Rodgers from Aero Aggregates shared with us last year. Thank you, Haifang, for the update.
* Some of you may have heard about Strategic Materials filing for bankruptcy last year, I heard from several folks really worried what this would mean for glass recycling in Washington, but it was debt restructuring, it did not stop any work and the plants continue to operate, in January they emerged with secure financing. It did not affect work and there are no plans to change or close facilities because of the restructure. Thank you, Laura Hennemann, for the update.
* In other industry news The Glass Producers Coalition (GPC) which comprises Ardagh Glass Inc. filed an antidumping petition against imports of certain glass wine bottles from China, Mexico, and Chile as well as a one countervailing duty petition against imports of wine bottles from China. This is an effort to protect the domestic production of glass wine bottle production.
* Aero Aggregates – product used in quick rebuild of 1-95 bridge last year.

## JJ Williams Kiona Vineyards and Winery

 - big little winery, 30th largest winery in WA

* Sell wine all over the US and worldwide.

Historically a heavy bottle shows quality.

We, in the industry, need to retrain consumers and break that intrinsic connection.

* No quality sacrificed (no breakage in transport), only paying for tactile feel.

As of 2021 all wine in lighter glass

* Benefits consumers - lighter costs less to transport. Capsule = fancy trash
* Alternatives to glass? Bags in box, plastic bottles = also have issues with toxics in packaging and seals - not ready to choose that alt yet.
* Would like to see industry wide acceptance of lighter bottles. Next focus is to get cork manufacturers to be more transparent on cork binding agents (often plastic).

Meggan Uecker (in chat) Did I miss or have there been some impact reductions calculated re: lighter glass and GHG transportation emissions?

JJ - they do not themselves crunch data like that.

### Labels discussion in the chat:

**Ariahna Jones**

What about the plastic in the labels? Has Kiona found a good source for non-plastic labels?

**JJ-**the PCC labels were done by Columbia Label, a fantastic printer here in the TriCites. The stock we chose was:

50# Aged Agave 100% PCW WS FSC® Certified

**From Adam Rack**

@Ariahna Jones, Waste Loop these labels are also called 'wet strength' labels. We're doing quite a bit of work on the label front at Revino too. Takes leaders like JJ Williams making high volume purchases to make more of these options available on the market. Encourage your local wineries to choose them.

**Mick Nelson Janke**

Still fixated on labels - Sorry. Glued on vs painted on labels. One recycler, in our system of 240 of potential glass recyclers, has done the research and now only buys wine with painted on labels. What’s the story on painted labels? More difficult to put on the bottle? Impact on crushed glass quality? Lower carbon footprint? I’m thinking cost is the barrier.

**Laura Hennemann** –

* Labels are not problematic for the recycler. Painted labels are slightly preferred.
* Water or oil-based paints are OK but water based is preferred.
* Metallized paints are a contaminate so we advise to use sparingly!
* Purely from the glass recycler standpoint, unsure about carbon footprint between the options available

**JJ** -Silk screening needs to be done at the silk screener’s facility, so you send your purchased bottles to them, theysilk screen them, and then they arrive at the winery.

**Adam Rack** - label materials - more wash off friendly label materials can make everything easier, can encourage industry toward lower toxicity adhesives.

## Matt Swihard - Double Mountain Brewery

* Retail market more of a challenge - resistant to separate bottles at the store level, wanted them to go into same crusher.
* 15% -20% return rate at beginning.
* 2013 ORBC came in with reusable market system - statewide with a common bottle size 500mL and 12oz.
* They buy it from OBRC - consumer drops it off - cleaned in Canada - buy it back from OBRC.
* 20,000 cases of each product per year
* 35-36% return rate, increasing each year
* Challenge = consumer preference for aluminum can
* Reusable bottle - every time you use it you cut the carbon footprint approximately in half.
* Parting words – “Start small, stay small. It's easier than taking over the universe sometimes!”

## Adam Rack - Revino

* Glass packaging responsible for 30-60% of overall winery emissions- lightweight only gets you 15-20% better.
* Reuse is so viable in wine industry because typically a higher cost bottle.
* OI glass is manufacturing partner.
* PR3 - developing a standard for reuse.
* Bottle return infrastructure sees the value in pulling these bottles aside.
* Engagement in WA without deposits - tasting room programs, retailer partnerships, scaling reuse - choosing reusable, sortable bottles.

Heather Trim

how does your system interact with OBRC? to clarify: if people do put the bottles into the OBRC system, even though not officially collected by them.

Adam - workgroup in discussions if wine bottles will be included in deposit network. They are the best collector of reusable containers in the state, they hope to work with them. OBRC's internal turnover has slowed that down. Currently an informal MOU to collect their bottles.

John Morrison

Any standardization should be open source. Will PR3 be open source? I have yet to receive a clear and direct answer from them on this subject.

Adam - PR3 is not designing but setting the standards, bottles need to be engineered for use 25 times. Really want to do this in partnership with industry.

## Chris Lueck and Scott DeFife - Glass to glass recycling

* Concentrated efforts on wineries, easiest to focus on.
* Spoke in Walla Walla, spoke in Benton City, planned expansion Dayton June 2024.
* BDI drives to Pasco (hub) can aggregate 60-70 tons of glass there bunkering glass is relatively easy - the weather isn't going to hurt the material, no issues with vectors.
* BDI does not charge to store glass, have been a true collaborator.
* No cost to pick up glass, have sent forty tons to Glass to Glass in Portland in 2023, 95% clean.
* Two hundred homes have become residential members and fifty-eight wineries.
* Need to aggregate one thousand tons to make transport to Seattle viable (from a potential Port of Pasco aggregation site).
* This will take large volumes of residential glass - which will need community outreach and education to limit contamination. Looking to elementary school education.
* Collected locally, aggregated regionally, recycled in the PNW until like many other materials.

### Presenters contact information:

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Adam Rack, co-founder Revino adam@revinobottles.com

Chris Lueck, BIG Recyclers vtwineguy@gmail.com

Scott DeFife, GPI sdefife@gpi.org

# Ecology’s Recycling Market Development Center Glass Summit May 2, 2024, Links shared in the chat

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| RDC website | [Recycling Development Center - Washington State Department of Ecology](https://ecology.wa.gov/waste-toxics/reducing-recycling-waste/strategic-policy-and-planning/recycling-development-center) |  |
| NextCycle | [NextCycle Washington](https://www.nextcyclewashington.com/) |  |
| Sign up for our newsletter | https://public.govdelivery.com/accounts/WAECY/subscriber/new?topic\_id=WAECY\_112 |  |
| Link to agenda | https://www.ezview.wa.gov/Portals/\_1962/Documents/rdcab/2024-GlassPackagingSummitAgenda.pdf |  |
|  |  |  |
| ReWrap HB 2049 | [Washington State Legislature](https://app.leg.wa.gov/billsummary?BillNumber=2049&Initiative=false&Year=2023) |  |
| DRS HB2144 | [Washington State Legislature](https://app.leg.wa.gov/billsummary?BillNumber=2144&Year=2023&Initiative=false) |  |
| Washington data | [Waste in Washington (arcgis.com)](https://storymaps.arcgis.com/stories/81f7dfd33e204263b2a8cd3014b14ed4) |  |
| 911 Glass Rescue | [911 Glass Rescue](https://911glassrescue.org/) |  |
| Ellensburg Glass Recycling Cooperative (EGRC) | [Home | Ellensburg Glass Recycling Cooperative](https://www.ellensburgglassrecycling.com/) |  |
| Haifang Wen - WSU | [Haifang Wen | Civil and Environmental Engineering | Washington State University (wsu.edu)](https://ce.wsu.edu/faculty/haifang-wen/) |  |
| Strategic Materials | [https://www.prnewswire.com/news-releases/strategic-materials-successfully-emerges-from-financial-restructuring-begins-next-phase-of-sustainable-leadership-and-growth-302042372.html](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.prnewswire.com%2Fnews-releases%2Fstrategic-materials-successfully-emerges-from-financial-restructuring-begins-next-phase-of-sustainable-leadership-and-growth-302042372.html&data=05%7C02%7Cmkey461%40ECY.WA.GOV%7C65c1c649cceb40f3432a08dc4dcdf522%7C11d0e217264e400a8ba057dcc127d72d%7C0%7C0%7C638470794536573357%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=lOHcWPDb9xEy1DYmCaurehhQQhNTZ2kwfEUq4Xlz%2FqA%3D&reserved=0) |
| Ardagh | [New Trade Case on Imports of Certain Glass Wine Bottles from China, Mexico, and Chile | News & Events | Clark Hill PLC](https://www.clarkhill.com/news-events/news/new-trade-case-on-imports-of-certain-glass-wine-bottles-from-china-mexico-and-chile/) |
| Aero Aggregates | [Resurrection of I-95 in Just Two Weeks Is Dubbed ‘Small Miracle’ - Bloomberg](https://www.bloomberg.com/news/articles/2023-06-28/resurrection-of-i-95-in-just-two-weeks-is-dubbed-small-miracle) |  |
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| Kiona Wine | [Kiona Vineyards | Home (kionawine.com)](https://kionawine.com/) [Kiona Vineyards | World Class in Lighter Glass (kionawine.com)](https://kionawine.com/news/2021-world-class-in-lighter-glass) | [Kiona Vineyards | World Class in Lighter Glass (kionawine.com)](https://kionawine.com/news/2021-world-class-in-lighter-glass) |
| Double Mountain Brewery | [Brewery | Double Mountain Brewery | Hood River](https://www.doublemountainbrewery.com/)[More Oregon Breweries To Start Reusing Glass Bottles (thebrewermagazine.com)](https://thebrewermagazine.com/oregon-breweries-start-reusing-glass-bottles/) | [More Oregon Breweries To Start Reusing Glass Bottles (thebrewermagazine.com)](https://thebrewermagazine.com/oregon-breweries-start-reusing-glass-bottles/) |
| Revino | [Wineries - Revino (revinobottles.com)](https://www.revinobottles.com/wineries/)[O-I Glass and Revino Close the Loop with ​Returnable​​ ​Glass Wine Bottles | O-I](https://www.o-i.com/news/o-i-glass-and-revino-close-the-loop-with-returnable-glass-wine-bottles/)[PR3 - The Alliance to Advance Reuse (pr3standards.org)](https://www.pr3standards.org/) | [O-I Glass and Revino Close the Loop with ​Returnable​​ ​Glass Wine Bottles | O-I](https://www.o-i.com/news/o-i-glass-and-revino-close-the-loop-with-returnable-glass-wine-bottles/) |
| BIG Recyclers | [BIG Recyclers (ground2ground.com)](https://www.ground2ground.com/)[There’s a new option for glass recycling on Red Mountain | Tri-Cities Area Journal of Business (tricitiesbusinessnews.com)](https://www.tricitiesbusinessnews.com/articles/4515) | [There’s a new option for glass recycling on Red Mountain | Tri-Cities Area Journal of Business (tricitiesbusinessnews.com)](https://www.tricitiesbusinessnews.com/articles/4515) |