

# SUSTAINABLE EVENT MANAGEMENT REPORT

## UUA GENERAL ASSEMBLY 2023



UUA GENERAL ASSEMBLY  
VIRTUAL GA • JUNE 20 - 23, 2024

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## SCOPE OF THIS REPORT

In partnership with the UUA, Honeycomb Strategies worked with UUA General Assembly (GA) management as well as key vendor partners to implement sustainability into event activities at David L. Lawrence Convention Center (DLCC). Honeycomb Strategies led a team including show management, GSC, hotels, venue, F&B providers, exhibitors, and other key stakeholders in writing goals and executing action plans for the 2023 event, and managed on-site sustainability operations.

This report analyzes event activities aimed at measuring the GA's impact within the ongoing sustainable event management strategy that began in 2008. Key performance indicators (KPIs) offer a broader view of progress over time. While some metrics increased from the 2022 expo, factors like attendee numbers, weather, and venue equipment variations may make increases statistically insignificant. The report assesses each indicator using relevant data points gathered from stakeholders in the planning process, during the event, and post-event. It also provides insights to guide next steps.

It is understood not all impacts are under the direct control of Honeycomb Strategies or UUA, but rather under their influence. The detail and effectiveness of the reporting is reliant on vendors and partners supplying data.



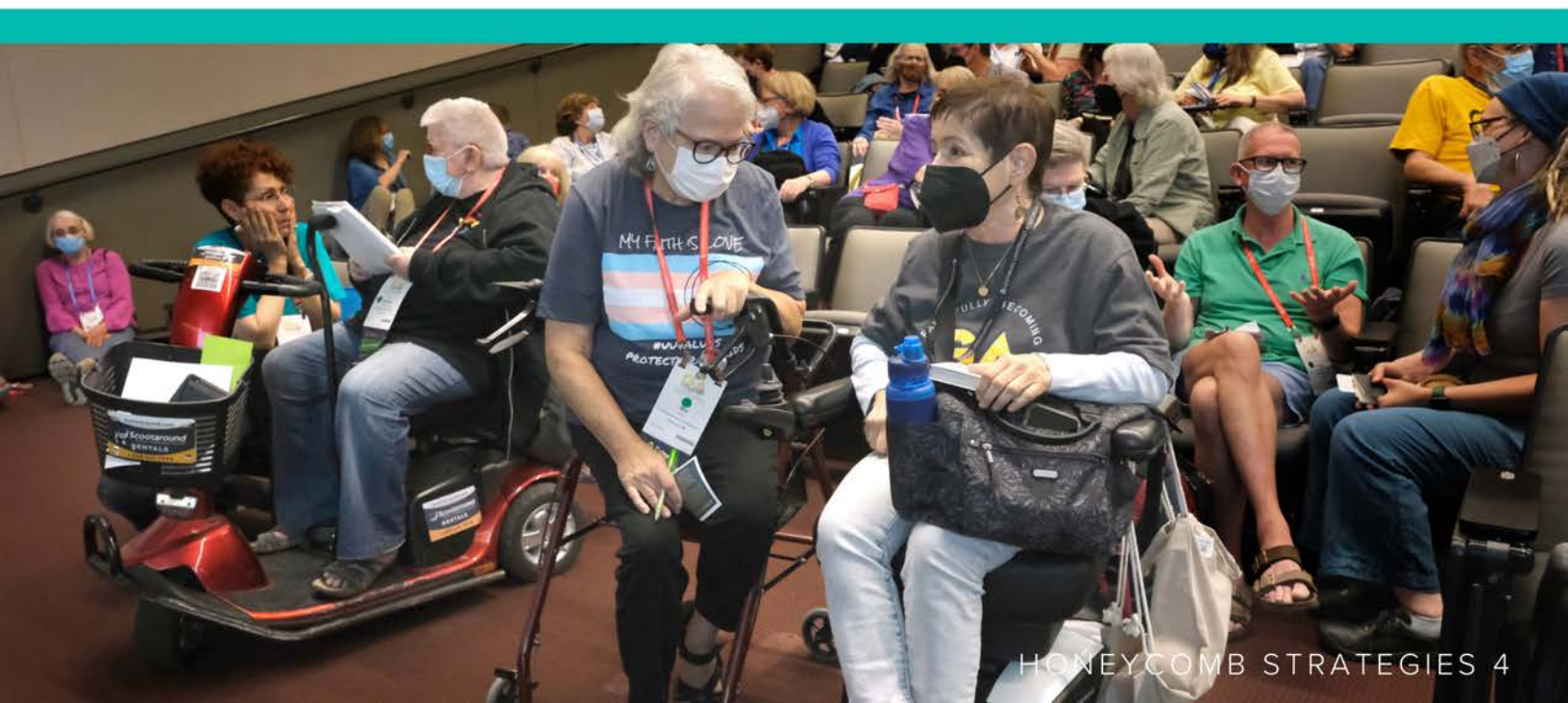
## ABOUT THE GENERAL ASSEMBLY

The UUA is the central organization for the Unitarian Universalist (UU) religious movement in the United States. The faith tradition is diverse and inclusive, committed to Seven Principles that include the worth of each person, the need for justice and compassion, and the right to choose one's own beliefs. General Assembly is the annual meeting of the Unitarian Universalist Association (UUA). Participants worship, witness, learn, connect, and make policy for the Association through democratic process. Anyone may attend and all are welcome.

## COMMITMENT TO SUSTAINABILITY

The UUA has established four long-term sustainability goals related to the sustainability performance at the annual assembly. These objectives address the most relevant environmental impacts of the GA while aligning with the core values of UUA.

- Maintain Carbon Neutrality in 2023 & Beyond
- Advance Stakeholder Education & Engagement
- Continuously Improve Sustainable Sourcing
- Create a Positive Social Impact & Lasting Legacy on our Host Community



# ABOUT UUA GA 2023

SHOW DATES:	June 21 - 25, 2023
LOCATION:	David L. Lawrence Convention Center, Pittsburg, PA
TOTAL PARTICIPANTS:	4,144 total <i>2,374 in person</i> <i>1,770 virtual</i>
NO. OF EXHIBITING COMPANIES:	65 (5 virtual)
EXHIBIT SPACE:	375,000 SQ FT
TOTAL OCCUPIED ROOM NIGHTS:	3,734



## UUA GA 2023 BY THE NUMBERS

68%

EVENT WASTE  
DIVERSION RATE

RECLAIMED WATER

16%

2%

DECREASE IN CARBON  
EMISSIONS

30%

REDUCTION IN TOTAL  
ENERGY USAGE IN 2023,  
COMPARED TO 2022

95%

CARBON IMPACTS OFFSET  
FROM ATTENDEE AIR  
TRAVEL VIA CLIMECO

43% VIRTUAL  
ATTENDEES

62%

OF ALL MEALS OFFERED  
BY LEVY WERE  
PLANT-BASED

# KEY ACHIEVEMENTS

## MAINTAIN CARBON NEUTRALITY

Carbon Offsets are part of the registration process for all attendees with an opt-out option. A \$6 offset was added to registration for in-person attendees and \$3 for virtual. 95% of registrants contributed to offsets for a total of almost \$24,000. In addition, UUA has committed to offsetting 100% of emissions that from GA operations.

[More detail on page 9.](#)



## ADVANCE STAKEHOLDER EDUCATION & ENGAGEMENT

Communications from UUA and their partners before the event were a step up from standard event practices. They educated participants about how to show up with reduction in mind and exhibitors were fully on-boarded to the Stetson Convention Services sustainable exhibitor kit.

## CONTINUOUSLY IMPROVE SUSTAINABLE SOURCING

UUA GA show management contracted with Stetson Convention Services, who was able to provide procurement solutions which greatly reduced expo waste at GA. Biodegradable table liners and bio core signage were used, eliminating plastic.

[More detail on page 22.](#)

## CREATE LASTING LEGACY

UUA requested that DLCC eliminate single use plastic items as a catering option during the assembly. Levy found alternatives to make the UUA GA the first fully compostable serviceware show. GA Green Team ensured waste diversion stayed high by sorting compost out of the landfill stream.

[More detail on page 12.](#)

# TOP OPPORTUNITIES FOR IMPROVEMENT



## AFFORDABLE FOOD OPTIONS

Attendees provided feedback that the cost of food available through GA catering was prohibitively expensive. This caused attendees to purchase food outside of the DLCC and bring in meal packaged in to-go serviceware that was not compostable. The outside waste contributed to the a higher total waste in 2023.

[More detail on page 20.](#)

## ATTENDEE EDUCATION

Despite a cohesive waste management strategy, a missing piece was educating GA participants on how and where to dispose of their waste correctly. When Honeycomb Strategies worked with the Green Team at the back-of-house sorting stations, a high volume of plastic containers and food waste in the landfill stream revealed that many attendees didn't know about best practices.

[More detail on page 12.](#)







# CARBON FOOTPRINT

Overall carbon emissions decreased slightly from 2022 because of waste and energy use reductions. A reduced carbon footprint is the result of a network of sustainable strategies and cumulative progress toward sustainability for show management as well as partners and stakeholders.

DLCC’s architecture allows in plenty of natural light which reduces energy use. The roof’s construction creates a natural ventilation system which harnesses the aerodynamics of river breezes for zero-cost cooling. This helped reduce energy use, which in turn lowered the carbon footprint.

The majority of GHG emissions (76%) for the UUA GA came from travel. With the understanding that transportation is essential both to the assembly and the need for the community to come together in-person, emissions related to flights are unavoidable until future advancements appear. The UUA made meaningful progress towards lowering emissions during the assembly by hosting the GA in an area where there is a larger group of members who can travel via vehicle carpool or train.

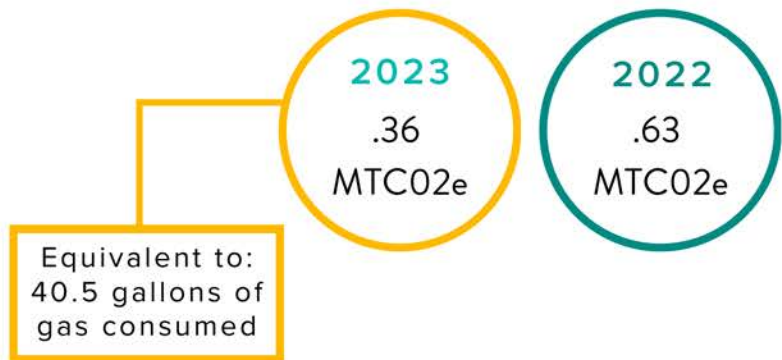
1,770 virtual attendees each contributed 108.5lbs CO2e per attendee. Although virtual

attendance carries a carbon footprint, it only amounts to 2/1,000th the amount of an in-person attendee. This is a great model for eco-friendly reach.

## TOTAL IMPACTS



## PER ATTENDEE IMPACTS



WIN



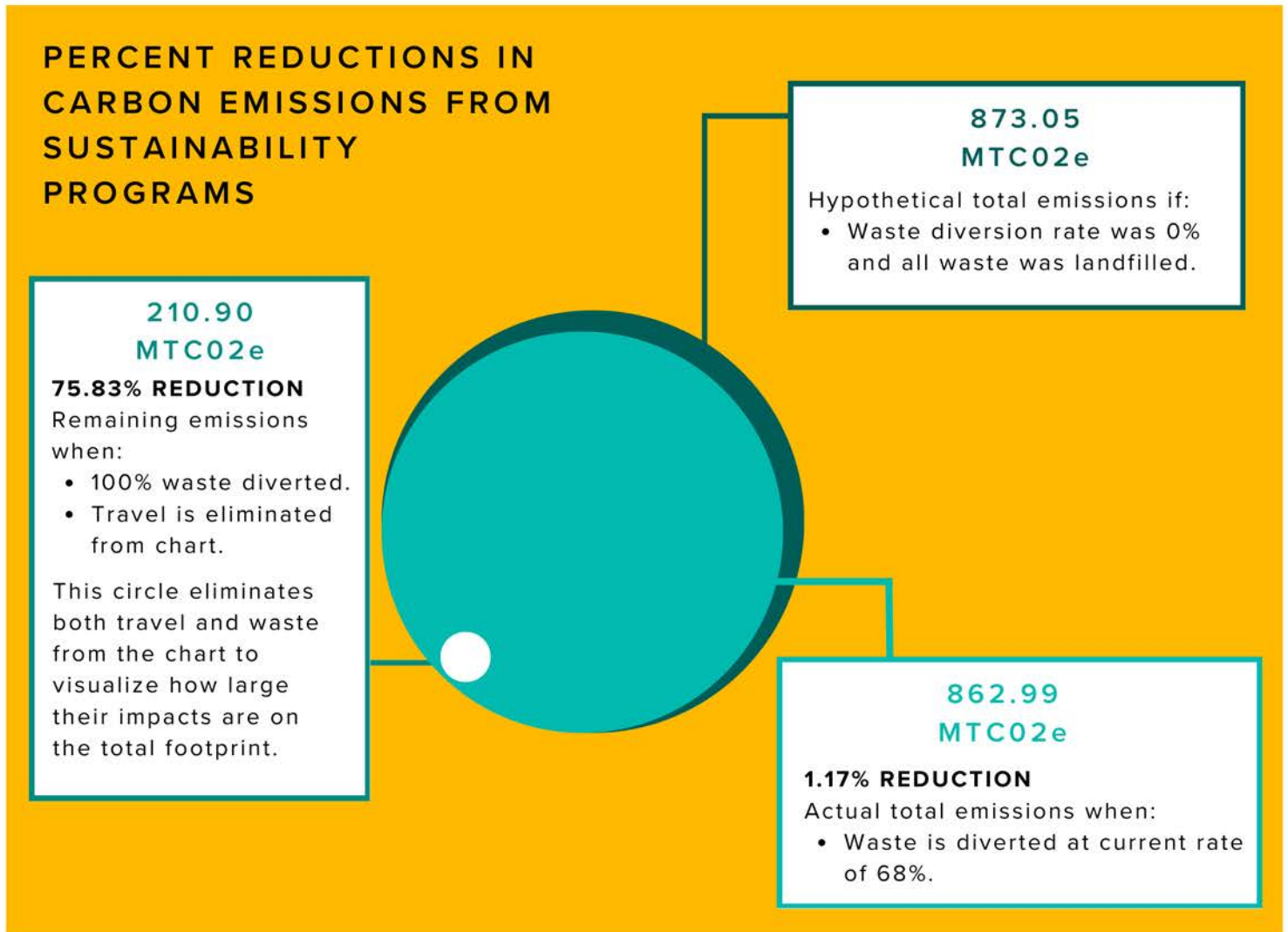
With the support of the attendees, GA is able to offset 100% of emissions for the assembly.

### VISUALIZING THE IMPACTS OF WASTE AND TRAVEL

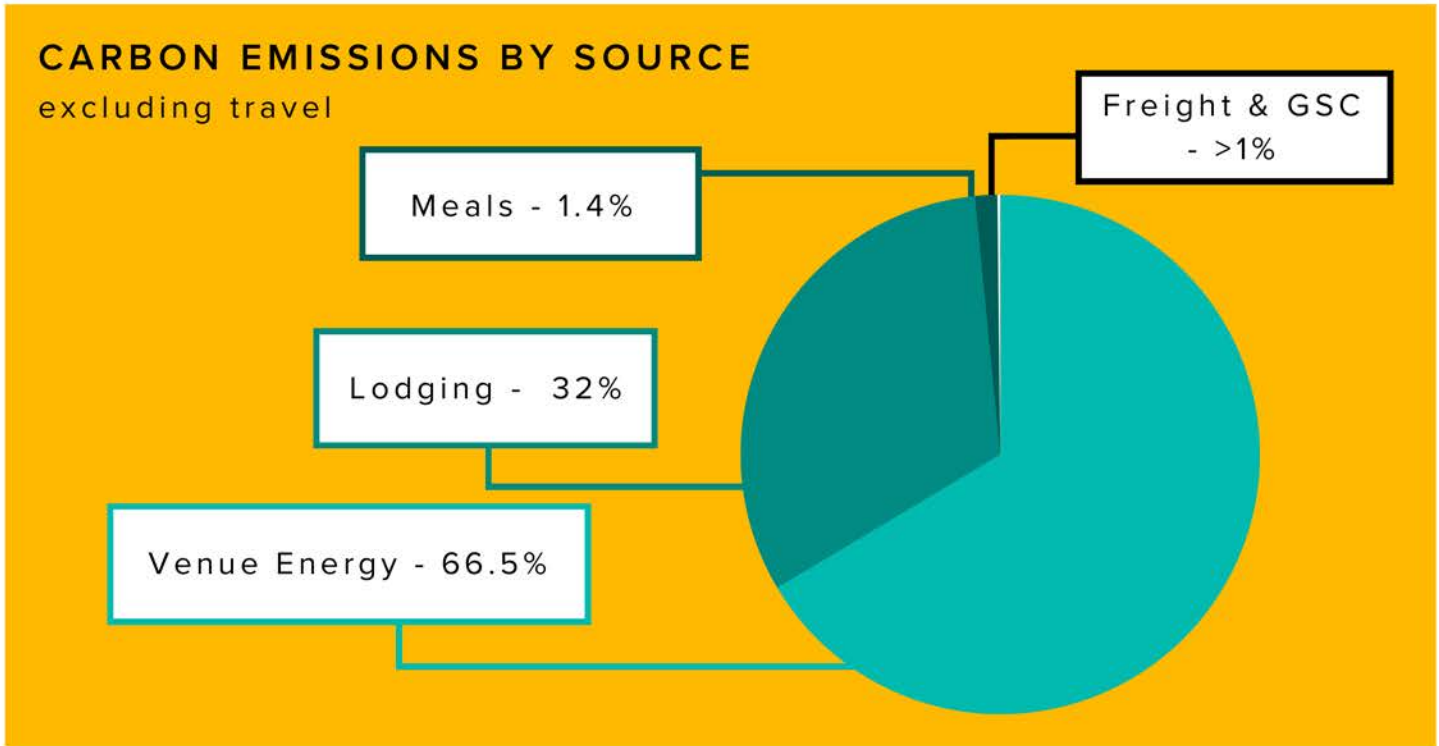
While this year’s reduction is a strong indicator of progress, UUA GA is not yet a zero-waste event and reducing waste is a remaining tangible way to affect reductions in the carbon footprint.

The total amount of waste was more than double that from 2022. Waste diversion programs were set in place to capture as much recycling and compost as possible, yet the material substance of items thrown away contributed to a waste diversion rate of 68%, compared to 77% in 2022.

The following chart shows how waste diversion has a measurable minimizing effect on the carbon footprint by showing hypothetical diversion rates side by side with the actual (shown in teal).



Of the remaining impacts on carbon emissions, there is a distribution across activities. Venue energy includes electricity and steam for a total of 140.29 MTC02e. Lodging measures the number of hotel room nights occupied by guests and attendees, totaling 67.59 MTC02e. There were more vegetarian meals offered than those with meat. Nonetheless, the non-vegetarian meals had 95% more carbon impact than those without meat. Onsite freight, like booms and forklifts, had only a negligible impact.



### NEXT STEPS

The UUA has used many levelers to reduce emissions in place, so it will become harder to show a reduction in emissions. Next steps that are still within reach are to focus on detailed food options and future venue selections with best in class energy operations.

Food and Beverage	<ul style="list-style-type: none"><li>• Focus on desirable and affordable food options within the venue so that attendees bring in less food-related waste. Refuse any single wrapped food items from the F&amp;B catering options and retail offerings.</li></ul>
Venue Selection	<ul style="list-style-type: none"><li>• Focus future venue selections on properties which use renewable energy or offset emissions.</li></ul>



# WASTE

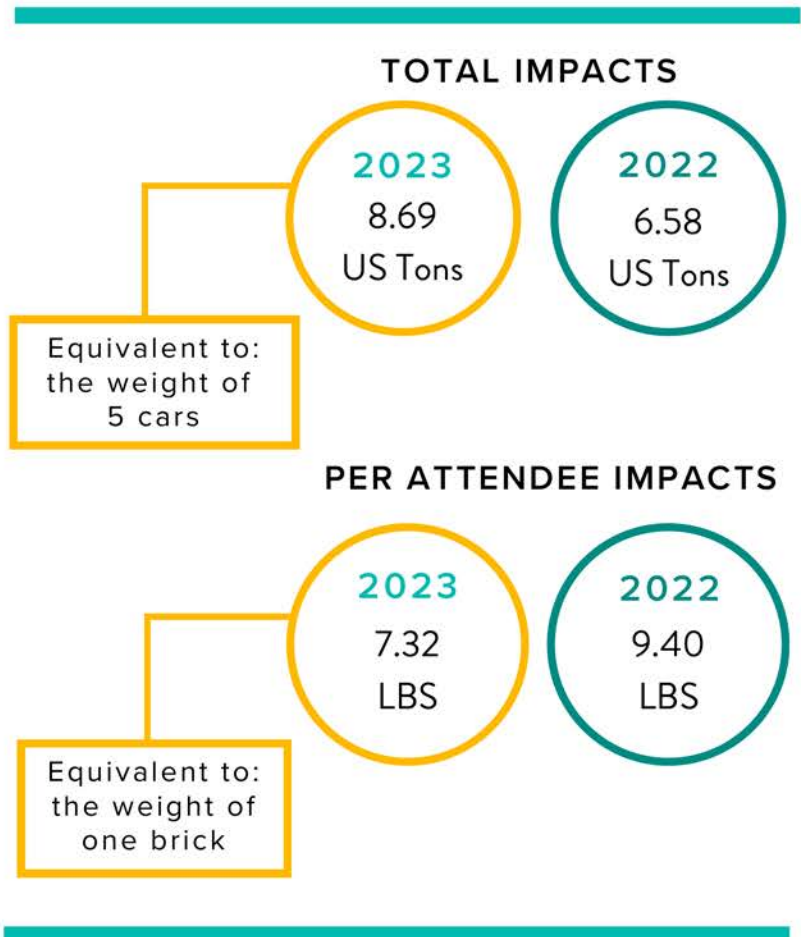
GA and Honeycomb Strategies carefully planned waste management operations with partners. Levy eliminated single-use plastic, using compostable serviceware for one-time-use options. Temporary 3-bin waste bins on the show floor matched the permanent system used throughout the DLCC which provided the opportunity for participants to dispose of waste properly and therefore reduced waste contamination.

The volunteer GA Green Team is a valuable asset for minimizing contamination in the waste streams. The GA Green Team was able to sort out contamination of the recycle and compost stream from the three bin system which was throughout the venue. The team was trained by Honeycomb Strategies on what was recyclable within the DLCC and what the compost hauler would take. The nimble team was able to jump into action when plastic serviceware was mistakenly set out; Honeycomb Strategies was able to correct the error quickly and easily with Levy.

Despite these planning efforts, total waste increased this year and waste diversion decreased since 2022, largely due to waste being brought into the DLCC from outside.



3-bin systems throughout DLCC / Image credit: DLCC





GA Green Team led by Corey Clark of HCS / Image Credit: Honeycomb Strategies



### WASTE DIVERSION RATE

The 20223 diversion rate represents a 11.7% decrease from last year in waste that was recycled or composted. While 68% is still a accomplished number for a diversion rate, and higher than the DLCC annual average of 45%, better attendee education can bring this rate back up.

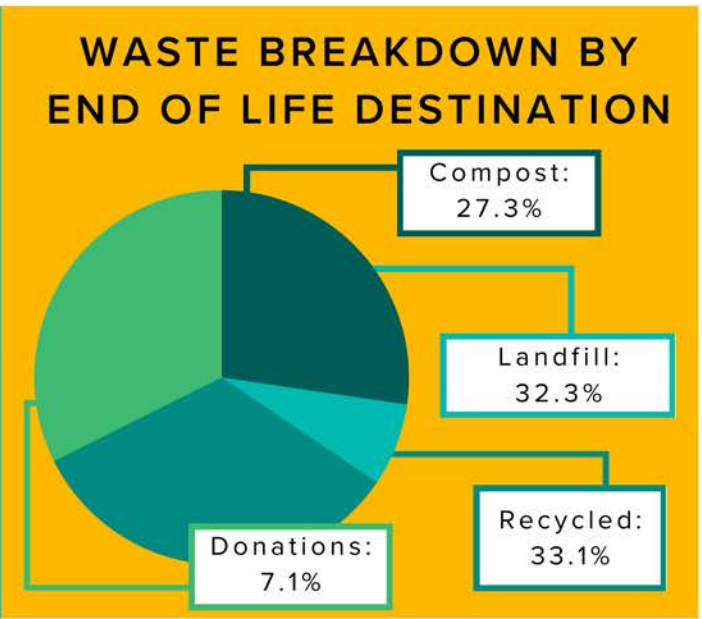


A major contributing factor was trashed to-go containers from outside the convention center which were not recyclable or compostable. Much of the landfill waste from the interior of the hall came from foil-lined chip bags from DLCC retail and trashed to-go coffee cups.

Diversion rate is defined by the amount of materials that are diverted away from landfill or incineration by means of recycling, donation or composting.

**WIN**

44% Of the recycling stream was made up of cardboard. More easily recyclable in municipal systems than plastics, and also more easily re-made into products, this substrate demonstrates good procurement on the part of the GA.



### EXHIBITOR WASTE

GA has made steps each year to reduce expo waste and educate exhibitors on their footprint. This year, GA carefully selected Stetson Convention Services as General Services Contractor. Through material selections, Stetson elevated the commitment to waste reduction in exhibitions.

- Online ordering and all exhibitor kit information was available digitally, saving over 2,000 pieces of paper.
- 140 tables were covered in 100% biodegradable, compostable, and Polyethylene-free fermented corn material. By using this advanced material, 900 feet of vinyl was eliminated from the show floor.
- At UUA’s request, Stetson omitted wastebaskets from each booth, influencing exhibitors to utilize the recycling bins on site. In doing so, approximately 136 bags and their garbage were averted from landfills.
- 19,040 SQ FT of carpet covered the show floor. Taking into account reuse, it is estimated there was less than 400 SQ FT of carpet waste.



The exhibit floor at GA 2023 had minimal carpet / Image Credit: Nancy Pierce

### PROCUREMENT

Waste management practices handle the excess that makes it on to the show floor. However, GA, in partnership with Stetson, also excels at stopping wasteful or harmful materials from making it to the assembly in the first place.

# WINS



- All apparel is union-made in the USA. Shirts are printed in Boston annually to estimate quantities accurately, and shipped on the GA truck to site.
- Ribbons are made from sustainable wood cellulose fiber material.
- Lanyards are 1-Color Recycled PET



## NEXT STEPS

Based on Honeycomb Strategies observations and feedback from the GA Green Team, there are additional reduction opportunities.

BEO Detail	<ul style="list-style-type: none"><li>• Identify every items on the BEOs and within retail locations which may be single use (such as chip bags) and talk with F&amp;B about alternatives.</li></ul>
Attendee Education	<ul style="list-style-type: none"><li>• Communicate to attendees what was seen this year and how the community can do better. Single use coffee cups and to-go food containers made up most of the preventable waste in 2023.</li></ul>
Signage	<ul style="list-style-type: none"><li>• Ensure signage on the venue bins match what the venue is offering to reduce confusion and contamination.</li></ul>



# ENERGY

Energy use is an important factor in reducing carbon emissions. The UUA GA had an excellent venue partner in the DLCC which is built for energy efficiency when the weather cooperates. It is still important to continue encouraging efficient use of energy even as the partnership with ClimeCo allows the GA to offset energy use. In addition, there is a cost savings benefit to continued energy reduction.

Total energy usage was reduced in 2023 compared to 2022 by about 30%. Decreases this year could be due to multiple factors resulting from other environmental planning, the venue's energy management and elements beyond direct influence of planning (such as weather).

The DLCC has a building automation system for monitoring thermostats, light sensors, air intakes, and other controllable systems. Passive energy building solutions and automated monitoring allows the overall use of energy to lower than normal consumption. These building systems contributed to the lower energy and carbon impacts of GA 2023.



Natural lighting in exhibit halls at DLCC / Image credit: DLCC

## TOTAL IMPACTS



## PER ATTENDEE IMPACTS





WIN



The DLCC kept the UUA informed about how the passive energy solutions were functioning while the GA was in session. When the weather turned humid, UUA was made aware that the natural air filtering systems weren't adequate to keep interior temperatures comfortable, so AC was turned on. Systems were not powered on by default, but only as a result of conditions. Communication was fully transparent about the use of energy-intensive systems.

NEXT STEPS

The best practice both for the environment and the cost of show production is to lower energy use as much as possible, and then keep it low for future years. The number one factor for this remains venue selection.

Venue Selection

- Continue to hold the UUA venue selection as a high priority and evaluate the energy footprint of the venue before selection for future GA.
- Look for venues that produce in-house renewable energy through solar panels, source renewable power, or purchase RECs.



# WATER

Total water usage increased in 2023 from 2022. This is a data point which has fluctuated each year since 2008, largely because water use numbers vary considerably depending on measures in place at host venues, and other factors such as weather,

The DLCC has notable water conservation practices in place. Venue faucets, water fountains, and sinks are supplied with fresh clean municipal water. Waste water is recycled to the DLCC's on-site wastewater reclamation facility. This facility filters and sanitizes the building's wastewater for the flushing toilets which don't require chlorinated water (called graywater). By using reclaimed wastewater, five million gallons of fresh water is saved every year.

Thus, even though water numbers increased this year, due to the DLCC's water reclamation program, only 10% of that water was potable water from the municipal taps.



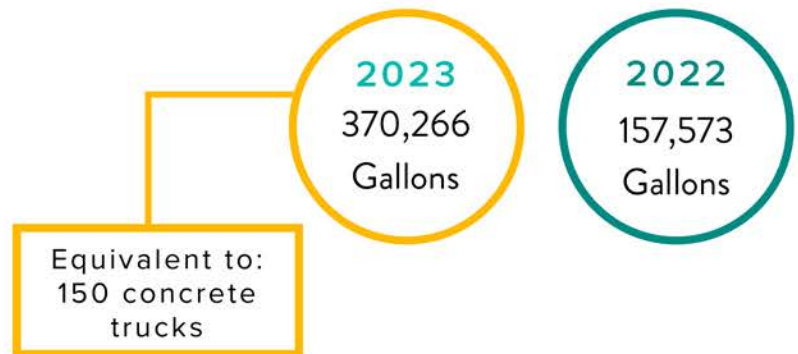
## WIN

16%

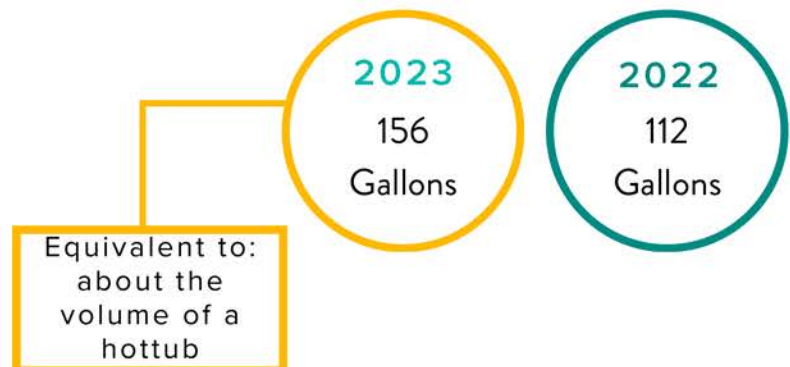
Water used at GA was reclaimed water from the DLCC's on site waste water treatment plant.

GA attendees are diligent about keeping each other healthy and therefore wash their hands often throughout the day. It is possible that this behavior contributed to higher water numbers, but it is not recommended that this action be curbed.

### TOTAL IMPACTS



### PER ATTENDEE IMPACTS



WIN



Attendees responded to communications inviting them to bring their reusable water bottles to be refilled on site. Unfortunately it seemed that reusable coffee cups were left at home, an opportunity for the future.



NEXT STEPS

While UUA GA has not identified goals immediately related to water reduction, some actions can be taken that can help lower water usage.

Water Footprint	<ul style="list-style-type: none"><li>• Track water used to produce items for the event; including but not limited to food, paper, fuel, gifts, etc.</li></ul>
Water Restoration Certificates	<ul style="list-style-type: none"><li>• Purchase Water Restoration Certificates from an organization such as BEF.</li></ul>
Menu Adjustments	<ul style="list-style-type: none"><li>• Adjust catering menus seasonally to reflect local food that doesn't require intense off-season watering, or eliminate water-intense foods from the menu entirely.</li></ul>



# FOOD & BEVERAGE

Careful planning with catering partners for menu planning, procurement and disposal contributed to the food service plan this year. Levy is conscious not to overproduce food for catering orders or retail although it can sometimes not be avoided. In 2023, 1,158 lbs of food was donated to the local community in need.

The UUA GA worked with Levy to design a menu in which plant-based option made up 62% of the meal, which offers food options with lower emission factors than animal-based products. For example, it takes 463 gallons of water to produce four ounces of beef and 180 gallons for the same serving of pork. Four ounces of sweet potatoes use only 12 gallons of water, and onions use only eight gallons.

**WINS**



100%

of the food served at GA was local or regional from within 500 miles of the venue.



90%

of the serviceware was one-time-use compostable.

Delicious, healthy meals served by Levy / Image credit: Honeycomb Strategies

## NEXT STEPS

Food service at GA is on a sustainable trajectory. Between the high percentage of plant-based meals, policies around compostable and reusable serviceware, and the percentage of local fresh produce indicate that the GA is on the right track.

Food Options	<ul style="list-style-type: none"> <li>Feedback from attendees was that meal options at the venue were expensive. This caused attendees to patronize outside retailers and bring their food into the venues, thus causing more waste.</li> </ul>
Food Data	<ul style="list-style-type: none"> <li>There are tools which can provide water use data as well as provide a carbon number per meal. Interesting way to educate attendees on choices.</li> </ul>



# SIGNAGE & DECOR

The UUA GA has a great partner with Stetson for show signage. Stetson ensured that only recyclable or reusable substrates were used for printing by the UUA or exhibitors. Of the 26 signs printed for the GA, 64% of it was printed on recyclable paperboard. The remaining substrates was a 'PET Eco Friendly Banner' and a 'non-PVC Floor Green Decal' made with bio-based materials.

GA has established policies which include procurement of items for GA and by its exhibitors. Environmentally sustainable product are encouraged and all stakeholders are educated on what those are prior to the show.

Outside of the signage printed by Stetson, GA used reusable signage in their stock and replaced signage details by printing 8x11 sheets and adding them to the sign holder.

The DLCC has digital signage throughout the facility which saves printing resources. It's a missed opportunity to use these signs, which are already powered on, easily updated if details change, and even less wasteful than the reusable signage.

The GA program is digital which saves on paper resources and carbon emissions from waste.



Unused digital signage and reusable signage / Image credit: HCS

## NEXT STEPS

Signage at GA is on a sustainable trajectory. Signage has been greatly reduced and every sign produced is vetted for its value and need.

Digital Signage

- Use digital signage when available to communicate detailed information such as daily schedules and room assignment that would otherwise be one-time-use printed signage.



# PARTNERSHIPS



Venue selection is the bedrock from which an event's impacts come. Located in downtown Pittsburgh, PA, the David L. Lawrence Convention Center was built using innovative sustainable and recyclable materials, uses an in-house waste water reclamation plant, building monitors for energy efficiency, and prioritizes sustainable operations.

Shortly after opening, DLCC was awarded LEED® Gold for New Buildings by the US Green Building Council, and in 2022 renewed its LEED® Gold certification for existing buildings. From the design to the conservation efforts and outdoor spaces, The DLCC helped GA reach many goals.

The UUA partnered with Stetson for expo and booth materials as well as logistics. The materials provided by a GSC are essential to the success of the assembly and Stetson produced 'better for you' alternatives to many of the standard plastic single use solutions most GSC provide, including:

- 100% recyclable Visqueen made of 50% recycled content.
- Organic/recycled content signage substrates without hard solvents or high VOC inks.
- Compostable and biodegradable wastebasket liners and table top coverings

## NEXT STEPS

### Honors

- Apply for awards and recognition for the best practices of the partners.



# SOCIAL IMPACTS

One of GA's goals is to: create a positive social impact and lasting legacy on the host community. The assembly did just that with the help of many UUA community members.

## LOCAL IMPACT

GA donated almost \$56,000 and clothing to support LGBTQIA+ youth in need of shelter in Pittsburgh.



### Proud Haven

*A Place To Be Home*

ASL provided for main stage programming and "floater" interpreters were available to provide services at workshops upon request.

## CARE TEAM

On site for private consulting.

Meditation and Sensory Free room was a dark and quiet place to sit, stay or lay without distraction.



## VIRTUAL CONTENT

1,770 attendees tuned into the 2023 GA virtually. Many GA sessions are also available for download.

## CHILD CARE

Available on site during the assembly.



## CAUCUS SPACES

Trans/NB, BIPOC, Disabled, Equal Access, Allies for Racial Equity.

Almost \$58,00 in financial assistance provided to those who otherwise may not have had the opportunity to attend.

- 91 first time in-person attendees.
- 108 attendees received general finance support.
- 106 attendees received youth and young adult support.

# U.N. SDG REPORTING

Reporting on the United Nations Sustainable Development Goals is important in order to communicate to stakeholders their commitment to achievement of these Global Goals. The UUA emphasizes an intergenerational approach to mobilizing people behind the UN SDGs. GA is an example of the high value offered by both youth and older persons as agents of social and environmental progress.



## OPPORTUNITIES

- Transition to climate-friendly agriculture that also responds to pressing social problems like land loss, racism, unemployment, and hunger.
- Highlight one meal around a local farmer to educate attendees on one of the issues listed above.
- Chose local, region, organic produce and vegetarian options at every meal.



## OPPORTUNITY

Add a morning walk or stretching class to one day of the GA to promote movement for attendees.



## OPPORTUNITY

Learn about the families and community of the host city by hosting a key note with education about the local community as it pertains to the UUA.

## ACHIEVEMENTS

- Working to eliminate gender disparities in GA educators and ensured equal access to education sessions and vocational training for persons with disabilities, indigenous peoples and children in vulnerable situations.
- Streamed content for virtual attendees and recorded content available for later watching.



## OPPORTUNITY

Look for host cities with efficient public transit to and from the airport and within the venue neighborhood.

## ACHIEVEMENTS

- Hosted spaces for the Disabled Caucus and Equal Access Caucus
- Educated attendees on how to use the bus system from the airport to the venue.





### ACHIEVEMENT

Maintained carbon neutrality by collaborating with all stakeholders to reduce onsite energy use and offset 100% of UUA GA related.



### OPPORTUNITIES

Maintain a zero-waste event with a strategic focus on waste reduction and maximizing waste diversion. Educate attendees on their contribution to the carbon footprint of waste at the GA.

### ACHIEVEMENTS

- Donated safe food from prepared meal.
- Streamed content for virtual attendees.



### OPPORTUNITY

Advance stakeholder education and engagement to minimize the environmental impacts of the GA with bold, highly visible actions to reduce/eliminate waste, limit and mitigate harmful carbon emissions, limit water consumption, source food locally and donate any surplus food/goods, among other initiatives.

### ACHIEVEMENT

Hosted a Climate Action meeting at the GA with a focus on fossil fuel divestment.



### ACHIEVEMENT

Selected DLCC as host venue which has a water treatment plant on site, reducing the use of potable municipal water to just 20% of the venue's use.



### ACHIEVEMENT

GA vetted all partners through a lens of environmental impact to choose the vendors which could deliver on the GA's sustainability goals and also execute a memorable GA.

# CONCLUSION AND NEXT STEPS

The UUA GA 2023 demonstrated improvements in impacts across most goals, especially the environmentally-focused areas of operation. Waste and signage have the most significant areas of opportunity, and there exist many avenues for social sustainability to be implemented. The partnership between Honeycomb Strategies and the UUA demonstrates a commitment to making these changes. Based on our assessment of this year's event impacts, these are the areas of focus that we believe to be of the highest priority for achieving sustainability goals in 2025.

UUA Goal	Action
Maintain Carbon Neutrality in 2023 & Beyond	<ul style="list-style-type: none"> <li>• Look for venues that produce in-house renewable energy through solar panels, source renewable power, or purchase RECs.</li> </ul>
Advance Stakeholder Education & Engagement	<ul style="list-style-type: none"> <li>• Communicate to attendees what was seen this year with waste and how the community can do better. Single use coffee cups and to-go food containers made up most of the preventable waste in 2023.</li> <li>• Respond to attendee feedback on food pricing within the assembly venue.</li> </ul>
Continuously Improve Sustainable Sourcing	<ul style="list-style-type: none"> <li>• Focus on desirable and affordable food options within the venue so that attendees bring in less food-related waste. Refuse any single wrapped food items from the F&amp;B catering options and retail offerings.</li> <li>• Use digital signage when available to communicate detailed information such as daily schedules and room assignment that would otherwise be one-time-use printed signage.</li> </ul>
Create a Positive Social Impact and Lasting Legacy on our Host Community	<ul style="list-style-type: none"> <li>• Partner with a local community need to build a tangible activation which attendees can take part in onsite.</li> <li>• Highlight one meal around a local farmer to educate attendees on one of the issues listed above.</li> </ul>

# BOUNDARIES & QUANTIFICATIONS

## ENERGY USE

- The energy boundary consists of energy consumed during GA and corresponding move-in/move-out periods.
  - Venue: Total energy consumption includes purchased electricity, fuel burning for heating and cooling, district chilled water and was reported through direct meter readings.
  - Energy use from fuel burning from participant travel to/from the destination, and mobile fuels from other vehicles operated by the venues or third parties were not included in the energy footprint (but are included in the GHG emissions calculations).
  - Energy use from hotel accommodations was not reported.

## CARBON EMISSIONS

Included in the total carbon footprint number reported.

- Venue non-renewable electricity and stationary combustion of fuels
- Estimated mobile fuel combustion of freight:
  - General contractor/show management deliveries
  - Exhibitor freight sent from advanced warehouse to the center
  - Marshaling yard trucks and trailers used to support this event
- Air travel to the destination by participants (attendees, staff, vendors, exhibitors)
- Local and regional travel to the destination by participants. Participants were assigned a round trip distance based on the characteristics and layout of departure city. Mode of travel includes car, regional train, and local bus/metro.
- GHG emissions per occupied room for hotels within the contracted room block
- GHG emissions for waste streams from data provided by hauler
- The number of vegetarian and non-vegetarian meals served at the event

The following are not included in the total carbon footprint number reported.

- Ground transportation by participants from airport to main venue

## QUANTIFICATION

- Energy emissions at venues from US EPA "Emission Factors for GHG Inventories" (March 2020 update)
- Emission factors for electricity consumption at venues obtained from EPA eGRID Year 2019 summary tables
- Emission factors for stationary fuel burning obtained from the World Resources Institute stationary combustion tool 4.0
- Flights US EPA "Emission Factors for GHG Inventories" (March 2020 update)
- Other attendee carbon offsets were calculated separately from the total GHG emissions value
- Hotel Carbon Measurement Initiative, using occupied hotel room night data provided, metrics per the Cornell Hotel Sustainability Benchmarking research report published 2019
- Emission factors obtained from the US EPA Waste Reduction Model (WARM) Version 15

# THANK YOU

UUA, GA Green Team, DLCC, Stetson Convention Services, Levy Catering, ClimeCo and other partners who contributed data and insight to the compilation of this report.

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