



Sustainable Sport Index

How To Prepare for the 2024 Survey





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ABOUT APTIM

APTIM is a leading professional solutions firm offering integrated environmental, sustainability, resilience, and critical infrastructure solutions for government agencies, commercial and industrial clients, and energy customers.

Environmental & Sustainability Solutions

- Environmental, sustainability, and energy transition consulting
- Remediating and restoring contaminated sites
- Decommissioning government radiological facilities and vessels
- Driving cutting-edge environmental research and development

Resilience & Critical Infrastructure Solutions

- Enhancing the resilience and reliability of critical infrastructure
- Protecting and restoring vulnerable coastlines
- Preparing for, responding to, and recovering from natural and man-made disasters





APTIM'S SUSTAINABILITY SOLUTIONS

Our team of sustainability experts develops data-driven solutions to address each client's unique goals. Our solutions encompass strategic planning, policy formulation, and operational performance evaluation.



ABOUT SSI

Why We Are Unique

Sustainable Sport Index (SSI) is a survey collecting self-reported data from venues to publish a public, anonymized benchmarking report, and provide confidential custom reports to participants.

- No rankings, awards, or certifications
- Confidential data management and anonymized reporting
- Actionable insights via custom report
- Participation and reports at **no cost**



REPORTING

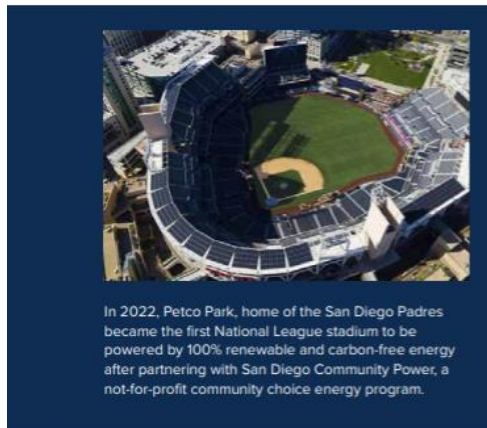
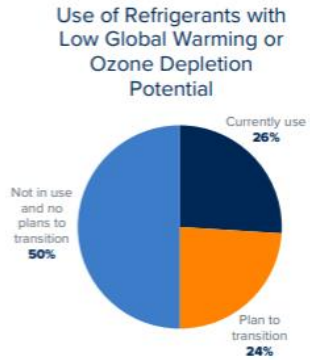
Public Benchmarking Features

ENERGY & GREENHOUSE GASES

Refrigerants can also significantly contribute to GHG emissions. Chlorofluorocarbons, a common refrigerant before the 1987 Montreal Protocol, were largely replaced by hydrofluorocarbons and hydrochlorofluorocarbons, which are both potent GHGs. Twenty-six percent of venues are currently using refrigerants with low global warming potential.

On-Site Renewable Energy

While the payback period is often longer for renewable energy projects than other energy upgrades, incentives and power purchase agreements (PPA) can make renewable energy projects more attractive. A PPA is a long-term contract with an energy provider where the utility will pay the cost to install solar energy at your facility or you will purchase solar energy from them through an off-site facility. Contact your local utility or solar energy provider to see which option makes the most sense for your venue.



35% OF VENUES PRODUCE RENEWABLE ENERGY ON SITE

93% OF THESE UTILIZE SOLAR ENERGY

32% OF ENERGY IS PRODUCED BY RENEWABLES ON AVERAGE

Examples of Custom Individual Report

WATER

Does your venue have water meters or sensors to monitor leaks?

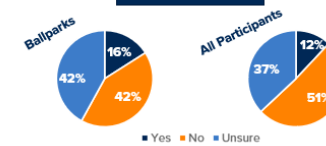


Yes

39% of ballparks and 48% of all participants monitor water leaks

Does the venue's municipality provide evaporation credits?

Unsure



Does your venue capture rainwater for storm water management or reuse?



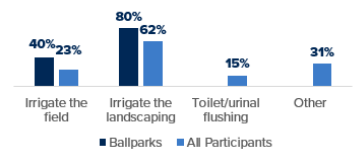
Ballparks: 26% capture rainwater with 5% not allowed to, according to their municipality

All Participants: 34% capture rainwater with 10% not allowed to, according to their municipality

Observations

Follows Best Practices
Way to monitor your water leaks. Consider capturing rainwater to irrigate your field or to reuse for toilet. This helps conserve water and offsets costs!

How is the collected rainwater used?

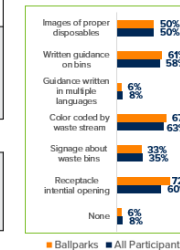


WASTE BINS

	Your Response	Distribution of Results																		
What collection streams are available in public and/or fan-facing areas?	<ul style="list-style-type: none"> Landfill Recycling (commingled) 	<table border="1"> <thead> <tr> <th>Stream</th> <th>Ballparks</th> <th>All Participants</th> </tr> </thead> <tbody> <tr> <td>Landfill</td> <td>78%</td> <td>89%</td> </tr> <tr> <td>Aluminum Recycling</td> <td>17%</td> <td>9%</td> </tr> <tr> <td>Commingled Recycling</td> <td>100%</td> <td>96%</td> </tr> <tr> <td>Compost</td> <td>11%</td> <td>35%</td> </tr> <tr> <td>Other</td> <td>3%</td> <td>3%</td> </tr> </tbody> </table>	Stream	Ballparks	All Participants	Landfill	78%	89%	Aluminum Recycling	17%	9%	Commingled Recycling	100%	96%	Compost	11%	35%	Other	3%	3%
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What type of bins are used for waste stations in public and/or fan-facing areas?	Mix of both	<table border="1"> <thead> <tr> <th>Bin Type</th> <th>Ballparks</th> <th>All Participants</th> </tr> </thead> <tbody> <tr> <td>Connected multi-stream</td> <td>6%</td> <td>9%</td> </tr> <tr> <td>Individual bins</td> <td>39%</td> <td>46%</td> </tr> <tr> <td>Mix of both</td> <td>56%</td> <td>46%</td> </tr> </tbody> </table>	Bin Type	Ballparks	All Participants	Connected multi-stream	6%	9%	Individual bins	39%	46%	Mix of both	56%	46%						
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It is becoming increasingly common to monetize recycling aluminum. Who owns your aluminum waste material on Site?	Venue	<table border="1"> <thead> <tr> <th>Owner</th> <th>Ballparks</th> <th>All Participants</th> </tr> </thead> <tbody> <tr> <td>Venue</td> <td>33%</td> <td>33%</td> </tr> <tr> <td>F&B Providers</td> <td>11%</td> <td>13%</td> </tr> <tr> <td>Waste Hauler</td> <td>28%</td> <td>28%</td> </tr> <tr> <td>Unsure</td> <td>11%</td> <td>8%</td> </tr> <tr> <td>Other</td> <td>11%</td> <td>20%</td> </tr> </tbody> </table>	Owner	Ballparks	All Participants	Venue	33%	33%	F&B Providers	11%	13%	Waste Hauler	28%	28%	Unsure	11%	8%	Other	11%	20%
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Are at least 75 percent of landfill and recycling bins paired throughout the venue?	Yes	<table border="1"> <thead> <tr> <th>Category</th> <th>Ballparks</th> <th>All Participants</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>22%</td> <td>10%</td> </tr> <tr> <td>No</td> <td>78%</td> <td>90%</td> </tr> </tbody> </table>	Category	Ballparks	All Participants	Yes	22%	10%	No	78%	90%									
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What features do your bins include?

- Images of specific disposables used
- Color coding by waste stream
- Signage about waste bins
- Receptacle opening sized intentionally for a specific waste stream



Observations

Opportunity for Improvement
Consider adding compost and aluminum recycling bins! Way to offer many bin features to help fans

Co-locating bins is important, so fans don't have to search for the right bin. Check out Page 43 of the SSI benchmarking report to learn more.

Note that ownership of aluminum waste should align with support to properly separate.

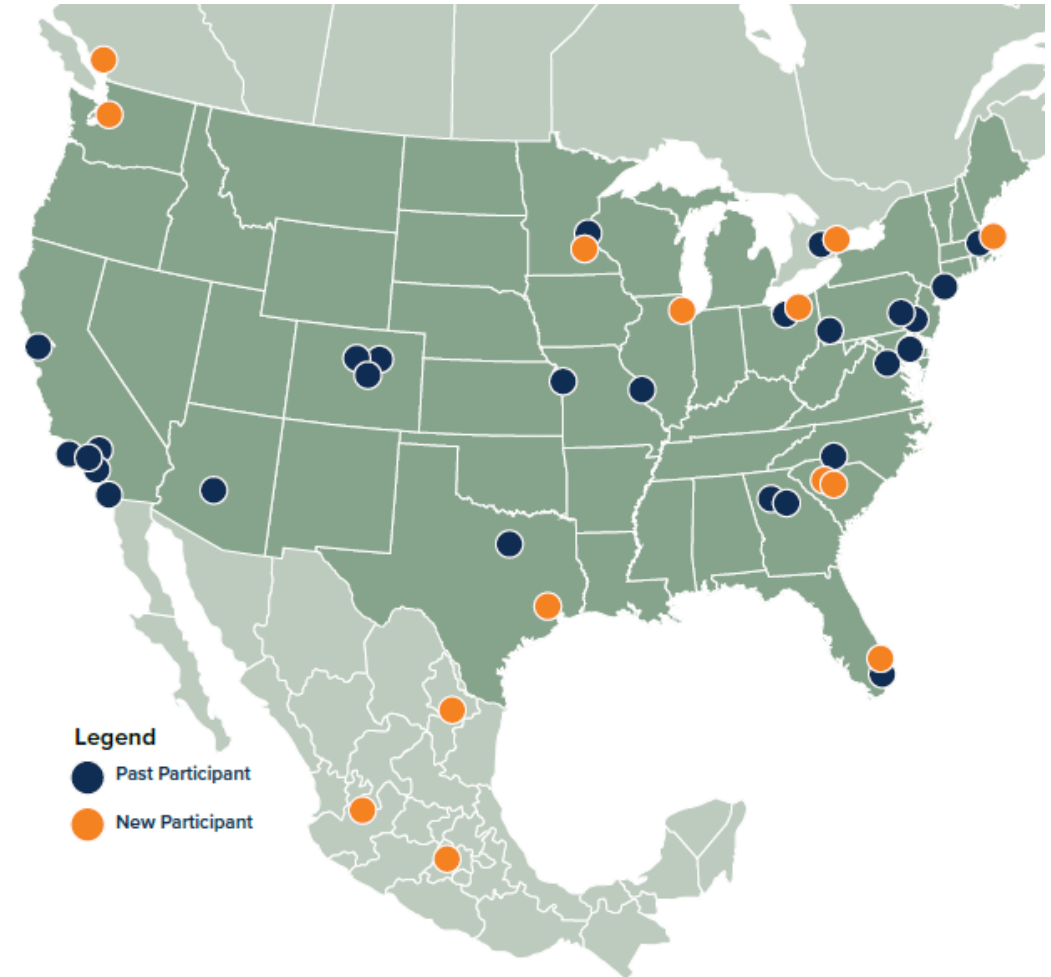
Follows Best Practice

2023 SURVEY PARTICIPANTS

Professional Venues represent **25%** of NFL, NBA, NHL, MLB, MLS, WNBA, and NWSL venues.

- 41 participants, with 64% increase in new venues and 96% retention from 2022

- | | |
|-----------------------------------|--------------------------------|
| • BC Place | • Wrigley Field |
| • Lumen Field | • Rocket Mortgage FieldHouse |
| • Chase Center | • Progressive Field |
| • SoFi Stadium | • Rogers Centre |
| • Dodger Stadium | • BMO Stadium |
| • Los Angeles Memorial Coliseum | • Gillette Stadium |
| • Angel Stadium | • Fenway Park |
| • Petco Park | • PNC Park |
| • Footprint Center | • Citizens Bank Park |
| • Ball Arena | • Citi Field |
| • Coors Field | • Lincoln Financial Field |
| • Empower Field at Mile High | • Oriole Park at Camden Yards |
| • Estadio BBVA | • Nationals Park |
| • Estadio Akron | • Spectrum Center** |
| • Estadio Azteca | • Winthrop University Ballpark |
| • Allianz Field | • Winthrop University Coliseum |
| • Target Field | • Truist Park |
| • GEHA Field at Arrowhead Stadium | • Mercedes-Benz Stadium |
| • Globe Life Field | • loanDepot park |
| • NRG Stadium | • Hard Rock Stadium |
| • Busch Stadium | |



WHY PARTICIPATE?

Benchmark	The individual report helps identify where your venue is and gives insights on where the industry is going—maybe even sparks competition!
Identify & Prioritize Sustainability Initiatives	Reports provide inspiration for implementation and third-party support for your plan.
Build the Business Case for Sustainability	SSI outlines some of the major benefits of sustainability and provides case study examples for reducing operating costs, increasing sponsorship revenue, and more.
Contribute to Industry Progress	Just by participating, you contribute to SSI as a resource for the sports industry to keep evolving.
Prompt for Internal Collaboration	Share the survey and report with colleagues, giving all staff an opportunity to see the positive change you are working on together. You might be surprised by who will want to help!

2024 SURVEY PROCESS

Through April

Pre-Survey

- Email SSI team to participate at SustainableSport@APTIM.com

May 1 – July 15

Survey

- Custom survey link will be emailed during launch
- Collects self-reported survey data from professional and collegiate sports teams and venues
- Covers key performances areas in environmental and social sustainability practices

July – August

Anonymized Data Analytics

- SSI team analyzes, anonymizes, and aggregates participant response data to create a public benchmarking report and custom individual reports

August – September

Customized Report for Participants

- 2024 individual reports released to your venue
- Includes a custom and confidential mini gap analysis of your responses compared to similar venue type responses and all participants
- Opportunity to schedule a one-on-one meeting with the SSI team to run through your report

October

Public Benchmarking Report

- Best practices
- Resources and statistics to help make the business case for sustainability
- Highlights from participants

ABOUT THE SURVEY

- **Each participating venue receives a unique survey link.** You can share the link with colleagues to help fill out the survey. You may save your survey and return at any time before submission.
- **38% of the questions are Yes/No responses.** To be able to find and create meaningful analysis and minimize survey fatigue, most questions are multiple-choice or yes/no.
- **Almost no questions are required.** This allows your venue to report what you know, without being held back by information you do not have.
- **We utilize similar sections year-over-year.** While we update and evolve the survey annually to be as valuable as possible to the venues and the industry, we try to maintain consistency in our questions to provide year-over-year analysis.

Required Questions

2

Yes/No OR Multiple-Choice Questions

~65%

Heavy “Data” Questions

4

NEW SURVEY PLATFORM!

This year we have upgraded our survey platform to improve the overall experience of the survey for our participants with a new feature: **section navigation!**

- ✓ Ability to see the status of all your sections
 - ❑ Answered, completed, or not started
- ✓ Can navigate to a section without clicking through the entire survey when you start/stop
- ✓ Easier to coordinate with colleagues to delegate specific sections

Section Selection		
Section	Status	Actions
General Information	Answered	Answer
Sustainability Management Policies and Staff Engagement	Answered	Answer
Procurement	Not Started	Answer
Energy and Carbon	Not Started	Answer
Environmental Resilience	Not Started	Answer
Emergency Preparedness	Complete	Answer
Waste Management and Diversion	Complete	Answer
Food and Beverage	Not Started	Answer
Housekeeping and Janitorial Practices	Not Started	Answer
Transportation and Outdoor Areas	Complete	Answer
Biodiversity and Nature	Not Started	Answer
Communication and Fan Engagement	Not Started	Answer
Social Responsibility, Wellness, and Accessibility	Not Started	Answer
Sponsorship	Not Started	Answer
Barriers and Benefits	Not Started	Answer
Venue and Team Highlights	Not Started	Answer
Feedback	Not Started	Answer
Water	Not Started	Answer

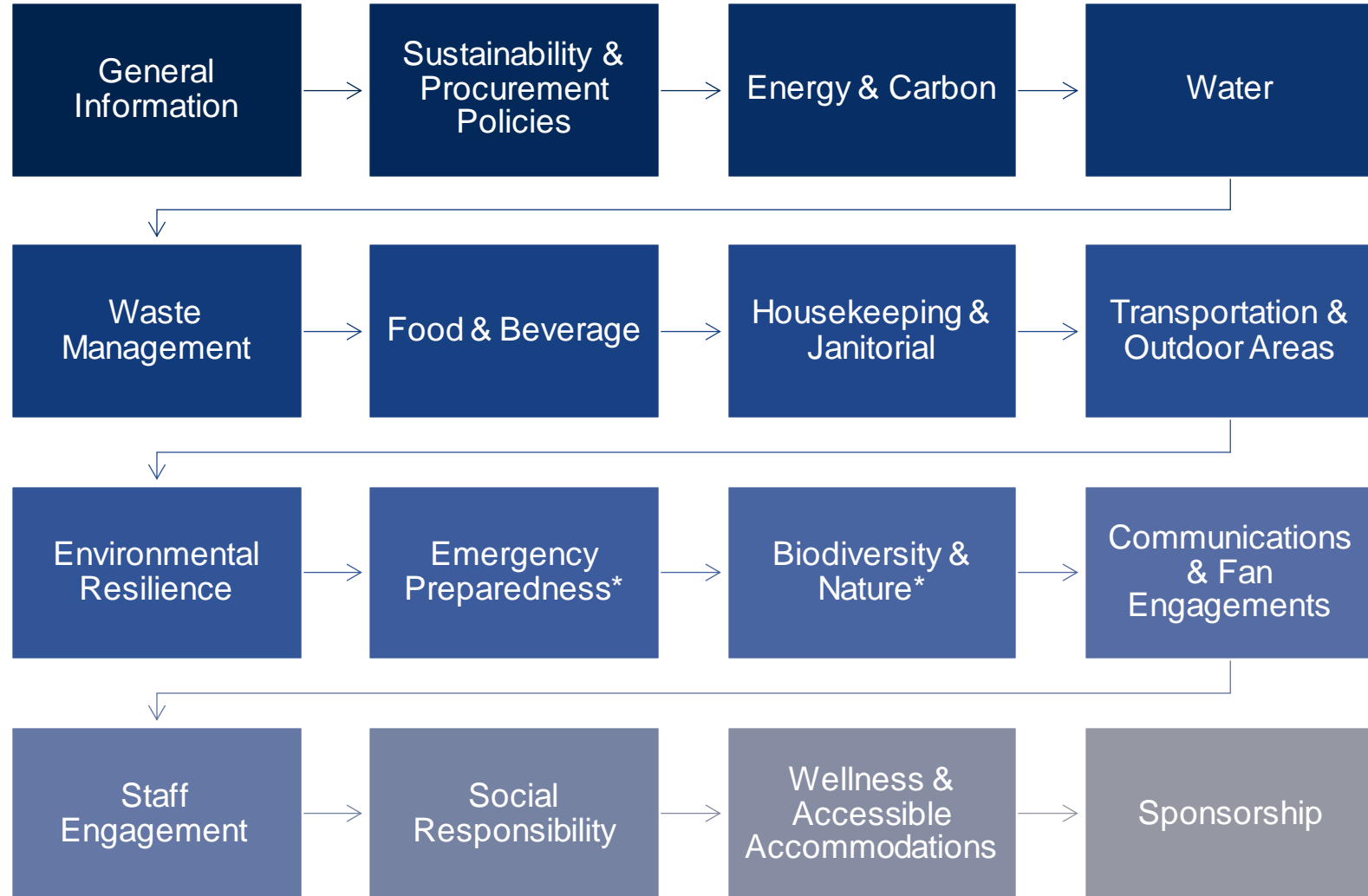
[Back](#) [Submit](#)

Repeat Participants: Do not worry—everything else is the same!

SECTIONS IN THE 2024 SURVEY

Information Gathering and Collaboration

- Venue Operations
- Engineering
- Food & Beverage Provider
- Housekeeping
- HR
- Corporate Partnerships
- Social Responsibility/Community Team
- Health & Safety



*New 2024 section

PREPARING FOR THE SURVEY: WHAT YOU NEED TO KNOW

Section	General	Sustainability & Procurement Policies	Energy & Carbon	Water	Waste Management	Food & Beverage	Housekeeping & Janitorial	Transportation & Outdoor Areas
Info/Data	<ul style="list-style-type: none"> • Size • Capacity • Annual attendance • Venue features • Venue certifications 	<ul style="list-style-type: none"> • Sustainability programs, policies, or management structures • Supply chain and procurement policies 	<ul style="list-style-type: none"> • Energy Data: Electricity, natural gas, diesel fuel, propane, steam, fuel for fleet vehicles, and/or onsite renewable energy • Scope 1, 2, and 3 GHG emissions tracking and reporting 	<ul style="list-style-type: none"> • Water Consumption Data: facilities, landscaping (including field maintenance), and rainwater capture data • Water sensor/sprinkler use • Stormwater 	<ul style="list-style-type: none"> • Current waste streams • Disposal methods (landfill/recycling/compost/etc.) • Weight of waste streams • Waste diversion rate (WDR) 	<ul style="list-style-type: none"> • Serviceware materials • Food provider policies/procurement • Efficient appliances in kitchens 	<ul style="list-style-type: none"> • Green cleaning policies • Green product usage • Staff training 	<ul style="list-style-type: none"> • Local public transit options (proximity and availability) • EV charging stations onsite • Available biking/walking paths for fans/employees
Sources	Venue operations	Venue operations, procurement, and compliance/policy	Utility bills, meters, submeters, engineering team, and tracking tools	Utility bills, meters, submeters, and landscaping	Venue operations, haulers, sorting team, and F&B provider	F&B provider and venue operations	Janitorial team policies/programs, and venue operations	Venue operations

We recommend you collaborate with active teams/tenants/vendors within your facility.

PREPARING FOR THE SURVEY: WHAT YOU NEED TO KNOW

Section	Environmental Resilience	Emergency Preparedness	Biodiversity & Nature	Communication & Fan Engagement	Staff Engagement	Social Responsibility	Wellness & Accessibility	Sponsorship	Venue Highlights
Info/Data	Venue climate adaptation considerations and plans	Plans and preparedness for climate-related extreme weather and disasters	<ul style="list-style-type: none"> Biodiversity Noise level monitoring Light pollution Stray animals 	<ul style="list-style-type: none"> Public transparency Environmental sustainability program 	<ul style="list-style-type: none"> Employee green teams Internal sustainability training 	<ul style="list-style-type: none"> DEI policy Wellbeing policy 	<ul style="list-style-type: none"> Indoor air quality monitoring Sensory room features Accessibility accommodations offered Following ADA requirements 	<ul style="list-style-type: none"> Partners endemic to sustainability Sustainability initiatives by endemic and non-endemic partners 	Showcase your current sustainability innovations and practices beyond the survey
Sources	Venue operations, health and safety/risk management, and climate adaptation plans	Business continuity plans, organized trainings, community outreach department, and facility operators	Venue operations, and health and safety	Venue operations and marketing and communications team	HR team	HR team	HR team, health and safety, and facility operations	Corporate partnership team	Attach photos, reports, articles, and more

We recommend you collaborate with active teams/tenants/vendors within your facility.

SURVEY ACCESS

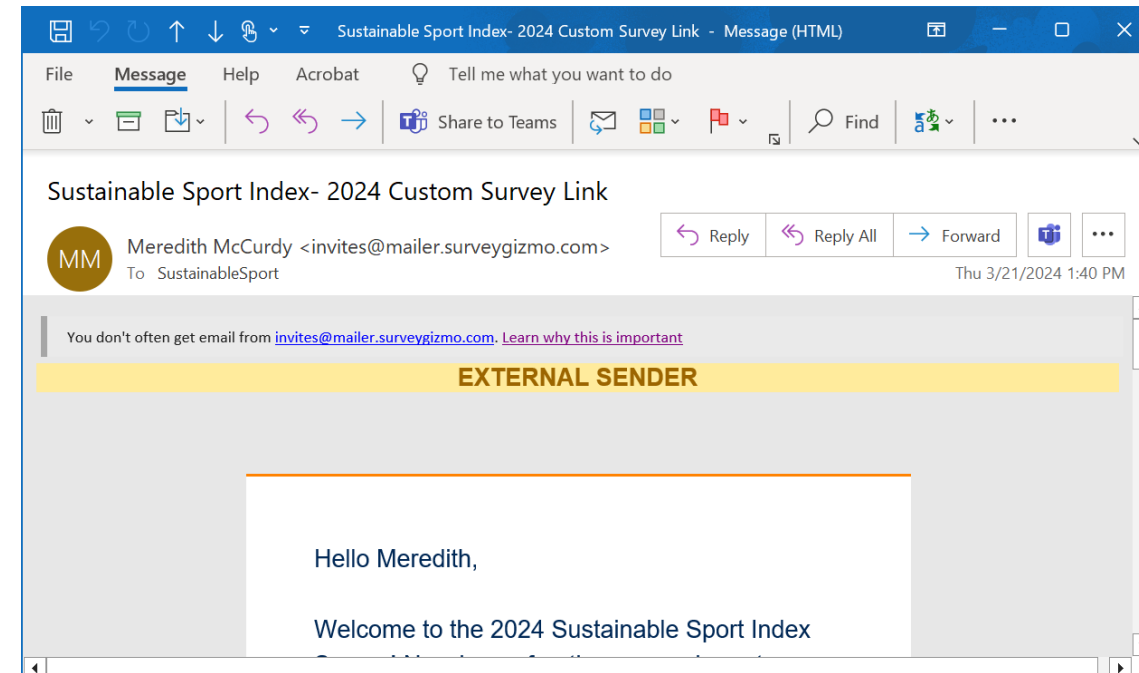
Email Us

- If we are not already in touch, email SustainableSport@APTIM.com

Look Out for Your Survey Link:

- On May 1, the survey will open and you will receive an email from the survey platform: invites@surveygizmo.com.
- **Please check your junk mail as it may end up there!**
- The SSI team will follow up separately, reattaching your custom survey link in case you cannot find the original email from our survey platform.
- Be careful not to delete that email as it will contain your venue's custom survey URL link. You may:
 - Start and stop your survey whenever you need by saving that URL
 - Share your custom survey link with colleagues to help complete the survey as necessary

*If you are registering after launch day, no worries! Reach out to our team at SustainableSport@APTIM.com and we will create your custom link for you and the process will be the same.

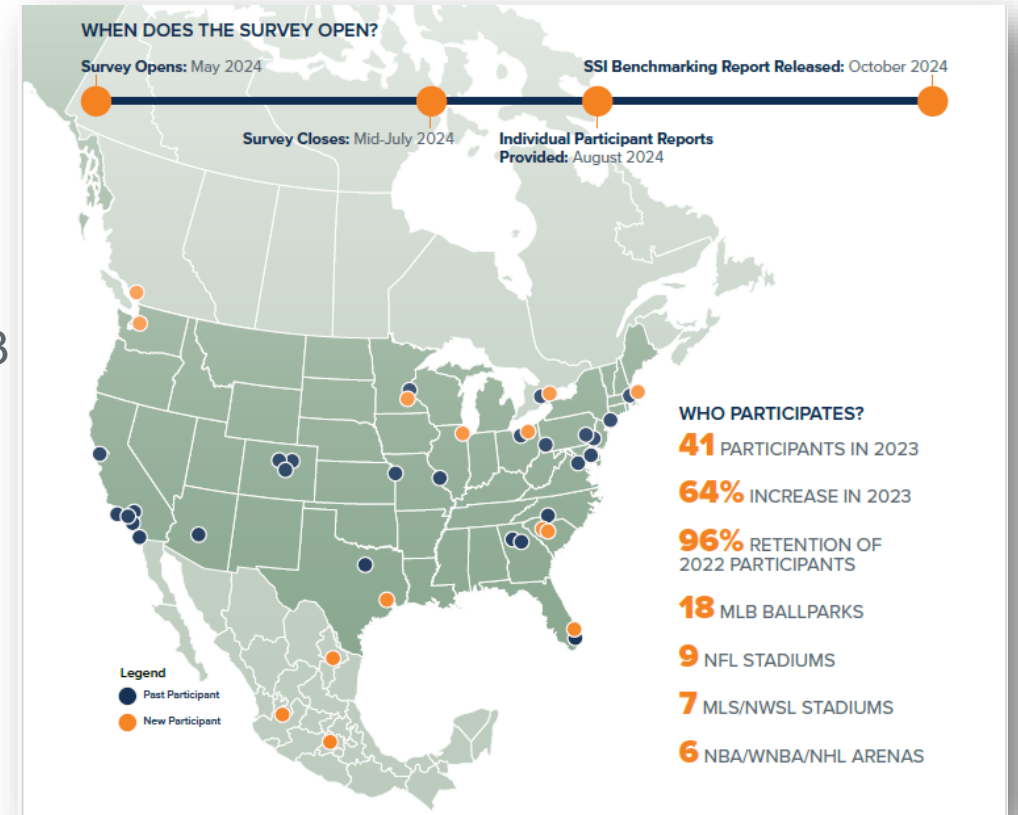


Collegiate Participants!

Please note, EACH venue receives a CUSTOM link. The emails from the survey platform and the SSI team will distinguish which facility that link associates with.

NEXT STEPS

- Participate! Email SustainableSport@APTIM.com
- Questions? Email SustainableSport@APTIM.com
- See you at the Green Sport Alliance Summit, LA June 11–13
 - Use SSI15 for 15% off registration
 - Check out the Sustainability Strategy Workshop





SUSTAINABLE
SPORT INDEX

FAQS

Who will see my data?

- All data collected is confidential and all answers will be reported anonymously and shared as part of a data set of all respondents. Your venue name will be listed as a participant.
- Publicly available (positive) information may be included to complement a venue highlight.
- All individual reports are confidential, as well.

Why should we participate?

- This first-of-its-kind initiative is providing sports venues with a sustainability benchmark based on key performance indicators. Results help the industry understand what it does well and what opportunities exist for improving environmental and social impacts.
- Additionally, individual participants will receive a customized, confidential report specific to their performance against their peers, allowing them to celebrate where they excel and plan for opportunities to improve in the future.

How much does it cost?

- Participation is at no cost for venues and teams! All participating teams and venues receive a customized, confidential report comparing their performance to the rest of the respondents.

Who should participate?

- We are seeking data from professional, minor league, and collegiate stadiums, arenas, and field sports facilities at this time. Contact us at SustainableSport@APTIM.com to participate!