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ST. LOUIS GREEN BUSINESS CHALLENGE CLASS OF 2022

APPRENTICE

Endangered Wolf Center

ESCO Technologies

GREEN CITIES

City of Alton, Illinois

City of Brentwood, Missouri

City of Clayton, Missouri

City of Collinsville, Illinois

City of Edwardsville, Illinois

Village of Glen Carbon, Illinois

Village of Godfrey, Illinois

City of Granite City, Illinois

City of Highland, Illinois

City of Maplewood, Missouri

City of Webster Groves, Missouri

City of Wentzville, Missouri

City of Wildwood, Missouri

LEADER

AmeriCorps St. Louis

Didion Orf Recycling

Focal Pointe Outdoor Solutions, Inc.

Metro Transit/Bi-State Development

Optime Care, Inc.

Perficient

Pulitzer Arts Foundation

Quiet Village Landscaping

Regions Bank

Roeslein and Associates

Saint Louis Science Center

Spire

CHAMPION

Ameren Missouri

Bayer

Bethesda Health Group, Inc.

Commerce Bank

Cortex Innovation Community

Curium

Hunter Engineering

Madison County Building & Zoning

Maritz

Missouri Botanical Garden

Missouri Historical Society

MRC – Midwest Recycling Center

MTM, Inc.

Office Essentials

Safety National

Saint Louis Art Museum

Saint Louis Zoo

St. Louis Cardinals

St. Patrick Center

StraightUp Solar



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2022 ST. LOUIS GREEN BUSINESS CHALLENGE

The 2022 St. Louis Green Business Challenge, a program of the Missouri Botanical Garden, delivers Triple Bottom Line results (fiscal, social and environmental) to businesses of all types and sizes across the St. Louis region. The Challenge supports integration of sustainability measures into the kinds of everyday operational practices common to every business. Participants identify and adopt strategies that improve financial performance and engage employees in voluntary measures to reduce environmental impacts.

Since the program launched in 2010, 260 businesses, non-profits and municipalities have joined the Challenge. This participation has engaged over 160,000 employees and nearly 570,000 residents for a total of over 730,000 individuals influenced by this work. Ongoing sustainability commitment is strong: 60% of these companies have participated in the challenge for two or more years, 50% for three years or more.



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CHALLENGE 2022 BY THE NUMBERS

46 companies, non-profits, institutions, and governments participated the Challenge.

100% of participants have formed a **Green Team** to lead sustainability efforts

100% have established or are developing **Sustainability Policies**

100% kept up or started **Workplace Recycling**, even during remote working

100% kept up **Sustainability Communications** with colleagues or constituents

100% continued or added to **Special Waste Stream Recycling**

98% provided **Green Learning** opportunities or **Green-At-Home** resources

91% continued or implemented **Sustainable Purchasing**

89% supported **Environmental Action**, contributing service, goods, or cash

85% promoted **Nature Connections**, including use of **Native Landscaping**

81% participated in three or more **Challenge Seminars**

76% continued or increased **Tracking and Reporting** of resource usage

73% are **Doing Business** with another Challenge participant

71% actively promoted workplace or personal/community **Wellness**

60% promoted or actively supported **Green Transportation** options

59% experienced a **Business Advantage** from sustainability engagement

55% achieved or renewed **Green Certifications** for buildings or operations

26% continued to have a significant number of employees **Working Remotely**

ABOUT THE CHALLENGE

The St. Louis Green Business Challenge, a program of the Missouri Botanical Garden, assists companies in integrating sustainable measures into their daily operations. Initiated in partnership with the St. Louis Regional Chamber, the Challenge leveraged the Chamber's broad business network and the Garden's sustainability resources to grow a network of companies committed to green policy and practice.

Now in its 13th year, Challenge activity influences the business, educational, governmental, and non-profit sectors of the St. Louis regional economy. The program works for building owners and tenants, supporting companies new to the concept of sustainable business operations and those already engaged and ready to fully integrate sustainable options.

Challenge companies benefit from customized coaching, including site visits and ongoing phone and email support

provided by expert staff of the EarthWays Center, the Missouri Botanical Garden's sustainability division. These services support Challenge participants in evaluating and implementing sustainability options in ways that optimize outcomes, cost-effectiveness and engagement, in accord with each company's goals and culture.

Events and networking support company and municipal Green Teams in sharing best practices, processes and outcomes, and learning new strategies. The program's eNewsletter circulates links to access archived resources and promotes engagement in community service and action opportunities. An online resource bank provides examples of policies, surveys, and more that are generously shared by Challenge participants. Regular communications and periodic events maintain a robust regional professional network of sustainability leaders, representing a wide range of professional specializations.

2022 SPECIAL FEATURES

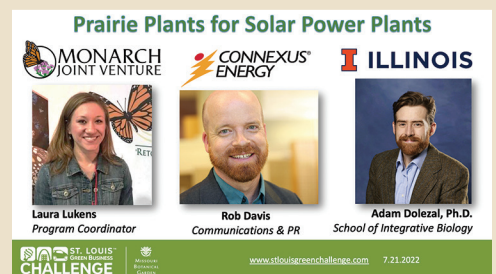
In partnership with **St. Patrick Center**, the Challenge continued advocating for **Green Collar Jobs** development. Two cohorts of SPC clients completed **Roots of Success** training, with job fairs held on program graduation days.

Virtual Brown Bag Seminars have presented 102 live Zoom programs since the series launched as pandemic pivot programming in April, 2020. Seminars this year detailed sustainable business incentives and resources, spotlighted the work of Challenge companies, and introduced Green-focused non-profits and community partners. Special programs featured principles of Biophilic Design and midwestern research on options and benefits of native prairie pollinator plantings around solar farm installations.



A grant from U.S. EPA supported **pilot use of GreenBiz Tracker**, a national online platform supporting programs like the Challenge in nine states.

At the American Planning Association bi-state conference, Challenge manager Jean Ponzi presented the **Economic and Ecological Community Benefits of Native Plants** to an audience of municipal and county planning professionals.



GREEN BUSINESS CHALLENGE LEVELS

Challenge Apprentice companies choose action items from a menu of basic sustainability policies and practices to start the process of greening business operations. In 2022, Apprentice companies formed green teams, adopted sustainability policies, converted to purchasing recycled-content office and janitorial paper products, installed high efficiency lighting and identified alternative transportation options. Apprentice participants meet twice, for a “Sustainability 101” training seminar and a report-out session to learn from peers’ experience and achievements.

Green Cities Challenge participants address sustainability within the range of operational requirements unique to local governments. Participating municipalities incorporated sustainability policy and practice fundamentals, including addressing measures defined by OneSTL, the regional plan for sustainable development.

Challenge Leader participants work with a categorized, point-based Scorecard enumerating a range of fundamental sustainability measures for business operations. Scorecards guide choices for Green Team leadership in their company’s process of making sustainability work. Each company competes with itself to improve their score over the program year, and through multi-year participation.

Challenge Champion companies are those that have completed work with the Leader scorecard in past years and commit to continued implementation of deeper sustainability strategies. Champions work with a scorecard that guides efforts such as completing a greenhouse gas inventory, reducing energy use by at least 25%, and striving toward a 75% or greater waste diversion rate. Challenge Champions may also elect to develop and report on an Innovation Project around internal greening efforts or their public or client-facing work.

THE CHALLENGE SCORECARD—A ROAD MAP OF STRATEGIES

Challenge scorecards detail a comprehensive range of sustainability options that address the kinds of operations common to every business. Each company earns points by acting on their selected strategies. Challenge participants can choose to:

Conduct **outreach** by expanding the culture of sustainability within and outside the organization (green teams, purchasing policies, internal and customer/public communications, community partnerships).

Conserve **energy** (energy efficiency in HVAC, equipment and lighting, renewable energy).

Improve **indoor environmental quality** (air quality, green cleaning, workplace comfort).

Reduce **waste** (recycling, paper reduction, food service, disposables).

Conserve **water** (fixture conservation, stormwater management).

Provide **clean transportation alternatives** (carpooling, bike-to-work, transit, travel).

In addition, unique Challenge components engage companies in special regional initiatives:

Better Building Through Benchmarking is a regional project organized by the Missouri Gateway Green Building Council to increase the square footage of third-party verified green space in the St. Louis region. Companies are encouraged to benchmark their building energy using ENERGY STAR benchmarking tools. This Challenge component also encourages the exploration of LEED, SITES, WELL, True Zero-Waste, BCorp, and other certification programs.

Better Business Through Biodiversity engages companies with strategies to evaluate and improve factors affecting natural habitat. This Challenge focus significantly contributes to BiodiverseCity St. Louis, a community-wide initiative to connect people to nature and to promote, protect and plan for biodiversity throughout the region. Challenge teams work to identify biodiversity assets in property and personnel, and to better understand impacts each company has on plants, animals and habitat.

The Challenge encourages efforts in:

Employee Engagement, through community service, “Taking Green Home” tips and more.

Alternative Transportation, through cycling, transit use, car-sharing and carpooling.

Recycle Responsibly, advancing regional waste minimization goals and correct practices.

WINNING THE CHALLENGE

Challenge participants annually compete with themselves to boost sustainability performance. Throughout the program's first decade, outcomes were tallied by Scorecard points, with Awards of Achievement recognizing work overall and Awards of Merit honoring companies with Most Points Gained. Pandemic era pivots into virtual working environments curtailed the effectiveness of Scorecard-based activity, and awards in 2020–21 equally honored every participant's sustainability perseverance.

ABOUT THE AWARDS

The 2022 St. Louis Green Business Challenge awards are designed by Stan Gellman Graphic Design and include an illustration created by Jeffrey Johnson of Red Herring Illustration.

This year's build-your-own awards are printed on a cost-effective, high-quality, white corrugated cardboard made of primarily recycled content that is also recyclable. The press uses odorless, water-based inks in a single pass to produce high-definition images with zero UV-reactive chemicals and produces zero hazardous air pollutants.

Previous years' designs incorporated sustainably produced bamboo, reclaimed aluminum printing plates, and recycled cork tiles.

In this 13th program year, with participants in a mix of remote, hybrid and back-to-office situations, Green Teams evolved ways to meet their organizations' unique needs to continue and grow sustainable practice. Challenge 2022 participants will once more all receive the same award: honoring commitment, persistence, and resourceful action, in routine operations and innovative projects. Awards affirm that sustainability is structured as a core value, through our collective efforts, across our regional economy.



We are proud that SGGD was recognized in 2011, 2014, 2017 and 2020 from Graphic Design USA for their Challenge award design work.

2022 COLLABORATIVE INNOVATIONS

Green Team leaders of the five cultural institutions in the **St. Louis Zoo-Museum District** presented five pop-up editions of the **EarthWays Center Green Living Festival**. This **Summer of Sustainability** presented family-friendly



Saint Louis Science Center – Saint Louis Zoo – Missouri History Museum
Saint Louis Art Museum – Missouri Botanical Garden

sustainable lifestyle resources to the summer Saturday audiences unique to each host site, engaging nearly 21,000 individuals.

A **Mid-County Sustainability Consortium**, convened by Sustainability Commission leadership from the **City of Maplewood**, launched collaborative efforts toward realizing goals shared with leaders from neighboring Missouri communities **Brentwood, Clayton, and Webster Groves**, and with the Director of Sustainability for **St. Louis County** and Challenge staff. These Missouri communities are drawing on collaborative resources shared by **Granite City** and **Collinsville, Illinois**, and fellow **Green Cities Challenge** participants in **Madison County, Illinois**.

Cortex Innovation District became a Challenge sponsor, supporting Collaborations and Partnerships.



Morgan Geile | Sustainability Program Specialist
MGeile@ameren.com | 636-386-6027
1901 Choteau Avenue, St. Louis, MO 63103
Owner – 800,000 ft²
www.ameren.com/missouri

2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



Ameren is committed to leading an energy transition that is just, inclusive, and equitable. By thoughtfully transitioning energy generation sources, we continue to get the energy we provide as clean as we can, as fast as we can, without compromising reliability, resiliency, or affordability for our customers.

Gwen Mizell
Chief Sustainability, Diversity
and Philanthropy Officer



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CHAMPION INNOVATION PROJECT

Leading the Way to a Sustainable Energy Future— Reaching Higher Heights

Measurable Elements

- Accelerating carbon emissions reduction targets to 60% by 2030, 85% by 2040, and net-zero by 2045 (an improvement of 5 years), by advancing coal-fired energy center retirement and adding more renewable generation. Targets now include carbon equivalents of Scope 1 and Scope 2 emissions.
- Saving \$2,813,980 in annual energy costs across 334 schools since January 2021 by completing energy efficiency projects, including HVAC and lighting, making schools brighter, more comfortable, and freeing up resources for enhanced education programs.
- Reducing installation costs of EV chargers up to 50% by offering nearly \$4 million in incentives. Program has enabled 400 new EV charger installations since 2020.
- Partnering with community organizations to establish two solar energy canopy sites in highly visible locations, with plans for four more sites by 2023, at no cost to the host organizations.



Qualitative Elements

- Publishing Environmental Justice Principles, focused on enabling communities we serve to have meaningful opportunities for input as we consider operational programs and investments.
- Establishing the Ameren Missouri Community Voices Advisory Board, a diverse group of leaders from non-profits, community action agencies, academia, social services, and economic development. Advisors selected to share community perspectives on relevant issues to assist us in understanding the priorities and interests of their constituents.
- Constructing our largest Community Solar facility to date, supported by 2,000 customers. Subscribers participate in Ameren-managed clean energy without high up-front costs.
- Creating over a dozen diverse labor and supplier jobs for design and construction of solar canopy sites, where pre-apprentices from diverse local communities obtained hands-on experience.

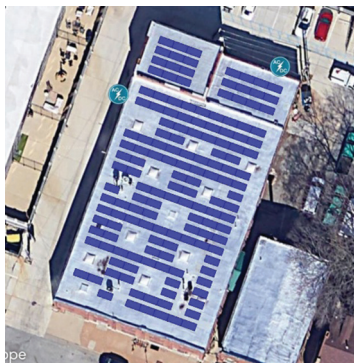


AmeriCorps St. Louis

Tim Elwell | Development Manager
tim@americorps-stl.org | 314-772-9002
1315 Ann Avenue, St. Louis, MO 63104
Owner – 25,000 ft²
www.americorps-stl.org

Accomplishments

- AmeriCorps St. Louis established a partnership with Renew Missouri and StraightUp Solar to install photovoltaic panels on our building. As a nonprofit, this model lets us get the benefits of solar energy at a minimal cost. We aim to include our Members during the installation process. Details are still being finalized.
- Staff transitioned Member contracts to digital form using DocuSign. This had been the biggest print expenditure for our fiscal year with approximately 1,600 pages.
- Planted native vegetation in the landscaping in front of our building. Our hope is to make this area a registered native space that thrives.
- One of the pillars in our newly created Strategic Plan is environmental sustainability.



Innovations

- Herbicide Plot Study:** AmeriCorps St. Louis worked with Washington University to examine impacts of various organic herbicides in removing invasive species. We applied herbicide to 10 acres of the designated treatment area. The evaluation will examine two treatment groups based on monthly applications of two types of organic herbicides, a homemade organic solution (dish soap, vinegar, soap) and a natural commercial solution (Contact Organics). This project is in process, set to be completed in January 2023.
- Urban Environmental Project:** restoring 32 acres at Historic Greenwood Cemetery.
- Student Engagement:** A partnership with Consult Your Community connected us with Washington University students in an effort to communicate our project and Member impacts related to climate change.



2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



Environmental conservation is a pillar for the AmeriCorps St. Louis program. We have partnerships all over Missouri where we assist agencies with conservation projects and our Members make a huge impact during their year service term. As staff, we aren't in the field as much as our Members, but we also have a drive to get things done and be a steward for our planet. Participating in the Green Business Challenge elevated that initiative for us and streamlined the process of improving our organizational sustainability.

Tim Elwell
Development Manager

 **ST. LOUIS™
GREEN BUSINESS
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is a program of:

 **MISSOURI BOTANICAL GARDEN**



Christina Allen | Sustainability, Safety, Health & Environmental (SSHE) Specialist
Christina.Allen@Bayer.com | 314-393-3551
700 Chesterfield Parkway W., Chesterfield, MO 63017
Owner – 4,035,338 ft²
www.bayer.com

2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



For Bayer, sustainability is a part of our corporate strategy, and we are committed to reduce the environmental impact of our sites. At Bayer St. Louis locations, we continue to conserve energy and water, maintain habitats for native species to flourish, and emphasize the importance of proper recycling to reduce our environmental footprint..

Anna Tang
Sr. Manager NA HSE
Facility & Lab Operations –
Environmental, Sustainability
and HSE Management
Systems



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Accomplishments

- Successfully completed Blue Bird Nest box monitoring program with record high employee engagement since 2019.
- Supporting sustainability initiatives for employees, Bayer added 9 new electric car charging stations in the parking garages, giving us a total of 15 to date.
- On track to achieve a landfill diversion rate greater than 60% for 2022.



Innovations

- Our Sustainability team, in collaboration with Open Space Council, had a successful 2022 Operation Clean Stream event at George Winter Park.
- Our iTrack Habitat app is now available to test on iOS for better plant identification and tracking.
- Hosted our first virtual Earth Day for Bayer St. Louis sites.



Accomplishments

- Throughout Bethesda facilities, replaced more than 30 HVAC units with energy efficient units, as a standard for equipment update schedules.
- At our Barclay House location, upgraded the dining room heat pump and installed a new and more efficient cooling tower.
- At our Orchard location, upgraded water heaters to Lochinvar boilers to increase efficiency, and installed boiler automated controls for the heat pump loop.
- Installed new hot water boilers with more energy efficient units at our Southgate and Meadow locations.
- Upgraded the Delta Building Control Software so that equipment uses less energy.



Innovations

- Continued upgrades to LED lighting in apartments, coupling energy efficiency investments throughout all buildings with scheduled apartment renovations.
- Continued company-wide upgrading of Holiday Lights to LED.
- At Orchard location, continued replacement of windows and glass to use less energy for heating and cooling.
- Began caulking and painting the exterior of our Orchard building to reduce air infiltration, in process of window replacements.



2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



The Bethesda facilities team focused in 2022 on continuing energy-efficient upgrades to equipment throughout our organization, as a best practice for scheduled and necessary replacements. Investments included hot water boilers, apartment heating and cooling equipment, window replacements, LED lighting in our apartments, and a cooling tower. I continue to be very proud that our entire organization has embraced the need for prioritizing energy efficient practices, and that we have continued to implement this strategy so effectively.

Joseph J. Brinker
President and Chief
Executive Officer

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Greg Caffey | Director of Planning & Development
gcaffey@cityofaltonil.com | 618-463-3801
101 E. Third Street, Alton, IL 62002
www.cityofaltonil.com

2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The City of Alton, with guidance from our Cool Cities Committee, continues to take incremental steps in advancing our sustainability, resiliency, and environmental justice goals. Alton made several important strides in 2022. We will continue to seek and pursue all opportunities to improve sustainability, including applying for state and federal grants and leveraging provisions of Illinois' landmark Climate and Equitable Jobs Act to secure funding for sustainability projects and expansion of clean energy resources.

Andi Campbell Yancey
Deputy Director of Planning &
Development



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Accomplishments

- Alton continued to demonstrate commitment to community forestry, maintaining our Tree City USA designation for the 29th year. City of Alton planted or pruned over 140 trees in 2022.
- Parks and Recreation Department retrofitted to LED fixtures all walkway lights and many of the streetlights throughout 704-acre Gordon Moore Park, improving energy efficiency as well as visibility and safety.
- Making HVAC upgrades at our Public Works facility, including replacing the chiller, air handlers, VAVs, and the building automation system in accordance with energy audits completed in 2021. Investments will greatly increase the facility's energy efficiency.
- Completed the 2022 CDP-ICLEI Unified Report, continuing to track our progress in sustainability efforts, and maintained our EPA Green Power Communities Partnership.



Innovations

- Issued permits for two utility-scale solar energy developments on brownfields at Alton's decommissioned landfill and in the heart of our industrial district. These projects will transition vacant brownfields to over 50 acres of solar panels with native plantings, generating clean energy for Alton residents and growing biodiverse habitat.
- The Grandpa Gang, a volunteer group that organizes and designs the Christmas Wonderland holiday light display at Rock Spring Park, transitioned to LED lights in 2022 for the four million lights decorating the park.
- Led by Pride, Incorporated—a local non-profit dedicated to education and beautification—the City and more than 48 Alton-area businesses, youth groups, and local organizations participated in two city-wide litter cleanup efforts.



Accomplishments

- Brentwood Board of Aldermen adopted Electric Vehicle Readiness and Solar-Ready ordinances and a Green Dining ordinance.
- Began work on a City of Brentwood Sustainability Plan.
- Coordinated a city-wide residential composting program, distributing composters and compost pails and encouraging residents to compost at home.
- Collaborated with neighboring municipalities in a Mid-County Sustainability Consortium.
- Recommitted for 2023 municipal sponsorship of the group-buy initiative Grow Solar St. Louis.
- Hosted four residential paper shredding and electronics recycling events.
- Educated residents about recycling and sustainable practices through social media, newsletters, and website.

Innovations

- Continued progress on Brentwood Bound, the major flood mitigation project that will restore floodplain, add trails and greenspaces, and link multiple parks in a highly visible location.
- Broke ground on Deer Creek Greenway Connector, in partnership with Great Rivers Greenway.
- Completed Brentwood Park event pavilion, featuring solar panels, high efficiency mechanical equipment, use of natural/regional materials, and a rain garden for stormwater management.
- Purchased over six acres of floodplain land to create an educational wetland arboretum. A \$50,000 contribution from Open Space Council helped to purchase this land.
- Purchased four acres of greenspace to retain as a park.



2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The City of Brentwood remains committed to ensuring a sustainable and vibrant future for the members of our community. Our elected officials have passed legislation in support of these efforts. Our citizen-led Sustainability Commission continues its work year-round. City staff members set goals and objectives related to sustainability. As a Green Cities Challenge participant, we strive to keep learning and incorporating green practices whenever possible.

David Dimmitt
Mayor



is a program of:





Matt Malick | Director of Public Works
mmalick@claytonmo.gov | 314-290-8547
10 N. Bemiston Avenue, Clayton, MO 63105
www.claytonmo.gov

2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



Environmental sustainability is a priority for the City of Clayton, demonstrated by recycling programs, rain gardens, solar investments, and cultivation of our extensive tree canopy. Next steps to reduce the city's carbon footprint include a Parks Master Plan and a Bicycle-Pedestrian Plan. We greatly value the knowledge and insights of our Sustainability Committee, and support provided by the Green Cities Challenge. These collaborations help us continue to identify options yielding strong returns for our community, as the City of Clayton continues to be a sustainability leader in the St. Louis region.

Michelle Harris
Mayor



is a program of:



Accomplishments

- Clayton City Foresters completed the multi-year plan to protect against the invasive Emerald Ash Borer. Initial plans included removal of 617 ash trees, but through advancements in treatment approaches and selective tree removal, the plan now aims to preserve 40% of our ash tree population.
- Clayton received a wellness grant to replace or retrofit traditional water fountains with bottle fillers at City Hall, the Police Department, and the Municipal Garage. Employees received water bottles to reduce plastic usage.
- Parks & Recreation and Public Works replaced various gasoline powered tools with zero emissions battery powered tools.

Innovations

- Public Works implemented self-watering planters to reduce labor required for watering. These planters hold 40 gallons, are recharged with rainwater, and reduce watering frequency from ~3 times per week to once every 2 weeks.
- Parks & Recreation is utilizing wood from downed park trees for new furniture at Oak Knoll Park and bench seating at the new Maryland Park.
- Parks & Recreation completed a pollinator-themed mural at DeMun Park, complemented by a native plant pollinator garden in the park.
- The City established a maintenance contract for our Police Station solar installation. Having a specialized contractor performing regular inspections and timely maintenance has resulted in less downtime of the solar array.

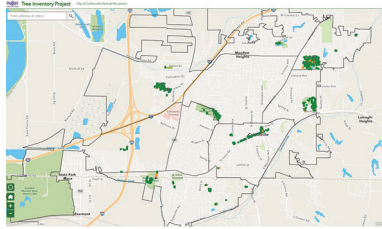




Derek Jackson | Deputy City Manager
deputycitymanager@collinsvilleil.org | 618-346-5200 x 1129
125 South Center Street, Collinsville, IL 62234
Owner – 95,000 feet²
www.collinsvilleil.org

Accomplishments

- Started a Tree ID program, offering free site consultations to residents that include inventorying trees, identifying invasive species, and providing guidance for removal of invasives to replace with natives.
- Digitized our 2019 tree inventory of all public parks and rights-of-way into the city's GIS portal, now publicly viewable.
- Updated zoning code to allow composting by right as an accessory use within residential zoning districts.
- Updated our public tree ordinance with a list of suggested and prohibited tree species, formally identified the Community Appearance Board as the Collinsville Tree Advisory Board. Parks & Recreation now takes primary responsibility for maintaining trees in parks and rights-of-way.



Innovations

- Partnered with Heartlands Conservancy to create Collinsville Landfill Plan: Creating a Biodiverse Community Asset. This multi-year guide will convert the city's old landfill from regular mowing to a pollinator meadow and tree nursery.
- Promoted stormwater management at Willoughby Farm, including the installation of rain gardens, 2,220 square feet of Flexipave permeable walkways, and partnered with Madison County Resource Management for the Only Rain Down the Drain campaign.
- Urban Ecology Club 2022 programming at Willoughby Farm included backyard composting, making biochar, tree talk, monarchs & milkweed, pruning pro tips, and mushrooms.
- HR Department added the city's no-idling for fleet vehicle policy to the new employee orientation process.



2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The City of Collinsville is honored to participate in the St Louis Green Business Challenge for the fifth consecutive year. The Challenge has instigated greater collaboration among city departments and engagement with our residents.

Mitchell Bair
City Manager



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2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



It is important for every community to pursue sustainability, but as the County Seat, the home of the largest university in the St. Louis region, and the nexus of a growing bicycle-pedestrian movement, Edwardsville is uniquely positioned to be a leader in reducing energy consumption, harmful vehicle emissions, and single use waste, while transitioning to more sustainable practices.

SJ Morrison
Ward 4 Alderman



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Accomplishments

- Held first ever Trail Summit with Madison County Transit for community leaders to discuss where they want connections in their communities.
- The Good Dirt Community Garden completed their first growing season at Meyer YMCA where community members can grow their own vegetables.
- Ordinances passed allowing EV charging stations in all zoning districts and guiding compost bin/pile placement on residential property.
- 100% reduction in single use bag use after one year of bag fee.
- A new fire station is being built with energy efficient features and solar panels.



Innovations

- Established a fund in the annual city budget for land acquisition to save green space.
- Approved a Bike and Pedestrian Master Plan with resident feedback from surveys and open houses.
- Regular citizen ad hoc committee with an alderman to discuss the impact of city planning of environmental initiatives.
- Ordinance passed that new and redeveloped properties will install lights that do not illuminate above a horizontal plane.

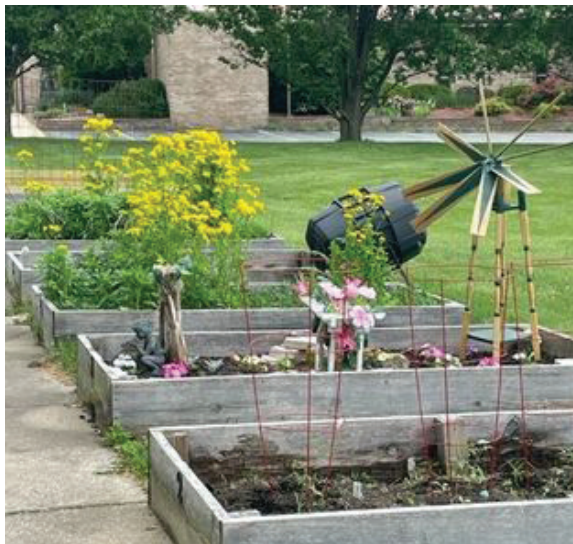




Jamie Bowden | Village Administrator
 jbowden@glencarbonil.gov | 618-288-2614
 151 N. Main Street, P.O. Box 757, Glen Carbon, IL 62034
 Population: 13,842
 www.glencarbonil.gov

Accomplishments

- Mayor Marcus' Tree Giveaway distributed 500 conservation-grade bare-root native species trees to Glen Carbon residents and children, and to the village's elementary schools.
- Community garden expanded.
- Received a Trees Forever grant to plant 14 new native trees in village parks.



Innovations

- In the process of developing an ordinance regarding the requirement for EV charging stations.
- Investigating the possibility of prairie restoration at Green Space East.



2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The Green Cities Challenge has provided us with the opportunity and resources to enhance the environment and quality of life for the residents of Glen Carbon. We are grateful to the organizers and co-participants in the Challenge for their help in making Glen Carbon a greener and healthier place to live.

John Slosar and Chris Krusa
 Co-Chairs, Glen Carbon
 Cool Cities Committee



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The Green Cities Challenge motivated The Village of Godfrey Sustainability Commission to utilize the Parks and Open Space Master Plan to identify and prioritize projects such as trail connectivity, native plantings, and land conservation projects. Activity is proving to be a valuable return on the village investment in commissioning the study from Heartlands Conservancy.

Chris Logan
 Director of Parks

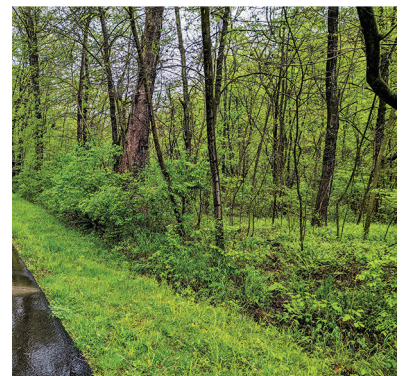
Accomplishments

- Rebuilt and rebranded the Climate Protection and Energy Efficiency Committee, now identified by ordinance as the Sustainability Commission. Actively recruiting and appointing new commissioners.
- Adopted Parks and Open Space Master Plan, compiled by Heartlands Conservancy.
- Erected public art in LaVista Park to raise awareness of pollinator plantings.
- Sustainability Commission Adopt-A-Highway for litter cleanup in the Business District.
- Recommendation that Village Board update Stormwater Ordinance to include BMP's, adopted in August 2022.



Innovations

- Developing a nature rich riverside park with an informational kiosk educating about aquatic invasive species.
- Developing an invasive species removal priority list for Village Parks, in collaboration with Lewis and Clark College Restoration Ecology Program and NGRREC Invasive Strike Team.
- Using the Stormwater Committee project priority list to partner with Heartlands Conservancy to secure funding for improvement projects in the Wood River Watershed.



is a program of:





Craig Knight | Risk Manager
cknight@granitecity.illinois.gov | 618-452-6206
2000 Edison Avenue, Granite City, IL 62040-0073
Population: 27,481
www.granitecity.illinois.gov

Accomplishments

- Planted a diverse selection of 151 native trees and shrubs at the Morrison Road Reforestation Site and another four trees at Willow Avenue. We educated community volunteers about planting and caring for trees.
- Brought Heartlands Conservancy, Southern Illinois' largest conservation nonprofit, and the Granite City Park District together. They are now working on a comprehensive park plan.
- Two Cool Cities members, who are Master Gardeners through University of Illinois Extension, partnered with the SNAP program to provide 206 pounds of vegetables to a local food pantry.



Innovations

- Cool Cities Committee participated in the Carbon+ Credits Program operated by Trees Forever.
- Granite City is the first municipality in State of Illinois committing to maintain newly planted trees for 25 years. The city will receive proceeds from sale of carbon credits based on the number and type of trees planted.
- Cool Cities Committee received the 2022 Outstanding Group Award from Trees Forever.



2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The Cool Cities Committee continues to promote and inspire projects that are at the core of Granite City's mission, Thinking Globally and Acting Locally.

Mike Parkinson
Mayor



is a program of:





Laura Miller | Community Development Director
l-miller@cityofmaplewood.com | 314-646-3607
7601 Manchester Road, Maplewood, MO 63143
1.59 mi²
www.cityofmaplewood.com

2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The City of Maplewood has taken positive steps to bolster its sustainable and equitable practices and policies, in the face of the burdens of a changing climate and declining resources, for the natural and human environment.

Stefan Denson
Chair, Maplewood
Sustainability Commission



is a program of:



Accomplishments

- Held an electronics recycling event for residents and businesses.
- Installed a dual port EV charging station in the Special Business District.
- Public Works employee, Joe Watts, received his Master Gardener Certification.
- Great Rivers Greenway and the City of Maplewood partnered to stabilize the streambank and improve drainage along the Deer Creek Greenway in Deer Creek Park.



Innovations

- Launched development of a Sustainability Action Plan.
- Maplewood Sustainability Commission is leading development of the Mid-County Sustainability Consortium, a collaboration to date of Brentwood, Clayton, Maplewood, St. Louis County Sustainability, Webster Groves, and Green Cities Challenge.
- Public Works Department and Community Development Director partnered with the Maplewood Richmond Heights Middle School Sustainability Class to design and plant the flowerpots placed in the Special Business District.



Accomplishments

- Prioritized Phase 1 goals from Forever Webster Groves, our city's sustainability plan.
- Introduced new bike lanes and "sharrows" during Webster On Wheels (WOW), a community bike event.
- Participated in multiple community events to hand out reusable bags to residents and discuss benefits of reducing plastic usage.
- Collected tired pumpkins for composting after Halloween in a community wide Pumpkin Smash.



Innovations

- Sustainability and Green Space Advisory Commissions are collaborating to curate and promote a 2023 speaker series and stormwater management plan.
- Identifying new partners to collaborate and build toward achieving goals of sustainability plan, Forever Webster Groves.
- Analyzing next steps for increasing EV charging availability and reducing energy consumption.
- Preparing to benchmark greenhouse gas emissions for city buildings and determine ways to reduce emissions.
- Connecting with nearby cities and St. Louis County leadership to create a regional voice to further sustainability, as a participant in Mid-County Sustainability Consortium.

2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



Connecting with other cities in the Challenge has been a source of inspiration. Folks are doing remarkable things and the willingness to share their process and successes is beyond valuable. Green Cities Challenge helps to create the spirit of collaboration, where connections are made, shared, and valued. To work in sustainability requires one to have a healthy dose of hope. Being a part of the Challenge helps put that hope into action.

Jamie Hasemeier
 Sustainability Commission
 Chair



is a program of:



2022 ST. LOUIS Green Business Challenge

GREEN CITIES CHALLENGE



The City of Wentzville continues to encourage businesses and residents to strive for more sustainable practices, to better our community and environment. We are working for a harmonious balance of green and sustainable initiatives and practices while maintaining an appropriate level of development rights, as continued growth at the city's periphery includes infill lands where development interest and investment remains strong.

Douglas Forbeck
 Community Development
 Director



is a program of:



Accomplishments

- Sustainability Partners Program is a community-wide effort to promote green business practices, supporting the City of Wentzville's efforts to be an environmental leader and a regional destination. Partners will report on energy, stewardship, and transportation.



- With grant funding from MO-DNR, a Hydrologic Assessment will evaluate current and future 'built-out' stormwater management needs through modeling. The intent is to review effectiveness of Wentzville's stormwater standards, existing stormwater control facilities, and related ordinances.
- Collaborated with St. Charles Soil & Water Conservation District and St. Charles County to publish a Stream Care Guide, a 42-page handbook for use by a wide range of landowners, exploring options to improve and protect local water resources.

Innovations

- Parks and Recreation purchased three lots totaling 157 acres, most of which expands our existing Rotary Park. In conjunction with the West Meyer Road project, a pretreatment forebay with native plantings is being installed for Community Lake to filter 64 acres.
- Parks and Recreation purchased a litter boom to collect hundreds of pounds of litter from over 500 acres before it flows into Heartland Park. Parks staff enlisted help from local high school students to target the litter.
- A new sustainability chapter was incorporated into the City of Wentzville's Comprehensive Plan, introducing policy language in support of a sustainable community which encourages residents, businesses, and organizations to be mindful of and engage in sustainable practices.



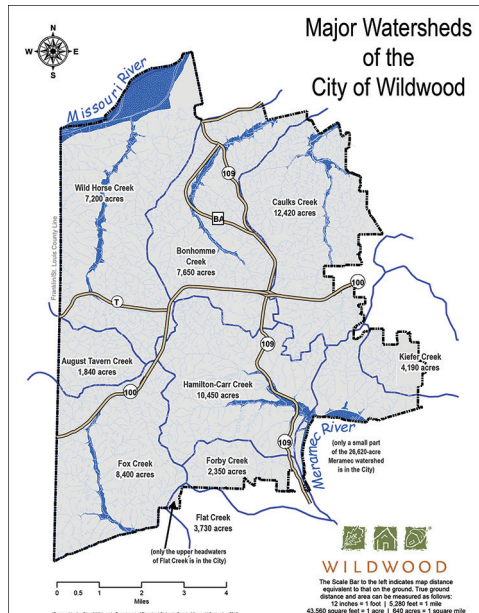
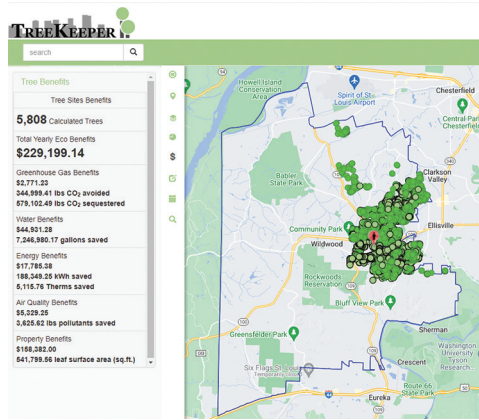


WILDWOOD®

Michelle Scherer | Administrative Assistant
 michelle@cityofwildwood.com | 636-458-0440 x 155
 16860 Main Street, Wildwood, MO 63040
 Owner – 20,000 ft²
 www.cityofwildwood.com

Accomplishments

- Planting 200 street trees in residential areas, and 279 trees as part of right of way improvement projects.
- Completing second phase of a Street Tree Inventory, to inform best management of 5–6,000 street trees.
- Studying the mid to upper reaches of Caulks Creek Watershed with the USGS and submitting permit and grant applications for repairs to critical locations in Caulks Creek.
- Motivating 700 hikers to complete 3 and 7-mile hikes for the wintertime Cabin Fever Hike.



Innovations

- Partnering with USGS to assess Caulks creek utilizing Light Detection and Ranging (LIDAR) to design erosion control projects.
- Treekeeper software will be used to inventory and manage Wildwood's urban tree program.
- Route 66 Roadside Park proposed as an interpretive site for the historic Route 66 corridor. Design concepts developed through an online survey and a student design competition at local schools. A Route 66 Student Task Force has been created to generate community and student involvement.
- Lawn and Garden Summit featured speakers and local organization displays.



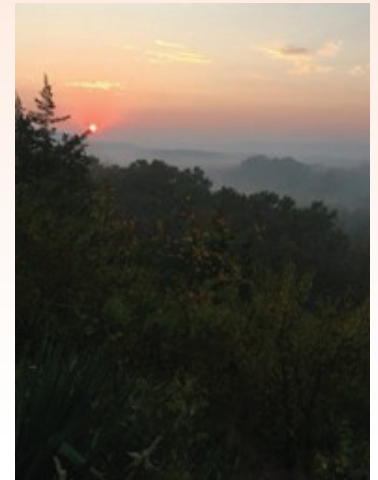
2022 ST. LOUIS
 Green Business Challenge

GREEN CITIES
 CHALLENGE



Wildwood is one of the largest municipalities in Missouri and St. Louis County in land mass. We've shown that it's possible to develop businesses and build homes, while protecting the beauty and space of our land.

Jim Bowlin
 Mayor



ST. LOUIS™
 GREEN BUSINESS
 CHALLENGE

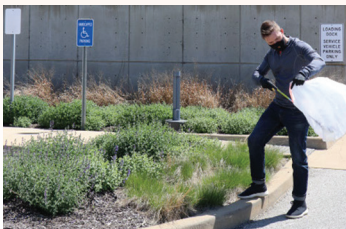
is a program of:

MISSOURI BOTANICAL GARDEN



Cortex aims to serve as a leader in sustainability efforts in the St. Louis region, and for innovation districts around the globe. Through our unique partnerships with the City of St. Louis, our founding members and incredible local community partners, we are putting sustainability at the forefront of our mission, and have opened our footprint to be a living laboratory space for new innovations.

Colleen Autry
 Director of District Operations



is a program of:



Accomplishments

- Cortex Board approved Sustainability Action Plan. Currently working on website.
- Calculated greenhouse gas emissions baseline.
- First ASHRAE Level II assessment being completed.
- Partnering with Green Dining Alliance to create a Green Dining District. Wasabi and Retreat have engaged to date.
- Partnered with PocketParks to open a two-acre native-planted park as a community amenity at Vandeventer and Forest Park, with games and furnishing donated by IKEA. Bayer volunteers joined us to plant 20 trees for the 20th Anniversary of Cortex.
- Continued our mowing contract with Clean Air Lawn Care for zero emissions landscaping using all-electric equipment, organic and low-impact practices.
- Sponsoring Green Teams in two of our buildings with CIC Property Management. Looking to have many more Green ambassadors in the district in 2023!



Innovations

- Created a Transportation Survey that shows emissions used when traveling from home to Cortex, and at what frequency.
- Utilizing QR Codes at PocketPark to tell the stories of five plant based projects happening in St. Louis.
 - › <https://www.pocketparks.co/2-acre-park>
- Creating Construction and DEI Guidelines for the Cortex District.



Innovations

- Dashboard created.
- Data accumulated.
- Visibility increased.
- Sustainability promoted.



2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



The St. Louis Green Business Challenge inspired going back to basics and asking: What do we do that goes beyond compliance? Answering this question led to our Recycling, Re-Use and Reclaim Dashboard to give visibility to employees about their efforts that divert material from the landfill.

Jennifer Janowitz
Environmental Health &
Safety Manager

 **ST. LOUIS™
GREEN BUSINESS
CHALLENGE**

is a program of:

 **MISSOURI BOTANICAL GARDEN**

2022 ST. LOUIS Green Business Challenge

**APPRENTICE
LEVEL**



*Sustainability is an extension
of our commitment to
conservation of wild places
and wild animals.*

Sarah Holaday
Director of Animal Care and
Conservation



is a program of:



Accomplishments

- Formed a Green Team, involving staff and volunteers.
- Maintain a company-approved no-smoking policy for indoors and on campus or outside of building.
- Developing Green Purchasing policy for office supplies, cleaning supplies, and janitorial paper.
- Installed recycling collection sites.



Innovations

- Installed raingarden and native landscaping.
- Working towards eliminating plastic bottles for use in meetings and events and replace with refillable serving options by Summer 2023.
- Staff toured St. Louis Composting to inform planning for on-site composting.





Justin Prien | Director of Environmental, Health & Safety
jprien@escotechnologies.com | 314-213-7263
9900A Clayton Road, St Louis, MO 63124
Tenant – 21,500 ft²
www.escotechnologies.com

Accomplishments

- Formed a Sustainability Team.
- Created a Corporate Environmental, Social and Governance policy.
- Completed a lighting audit on our corporate office.
- Participated in 2022 Operation Clean Stream.
- Completed our 2020 and 2021 companywide greenhouse gas inventories.



Innovations

- Replaced our old water fountains with new fountains equipped with water bottle filling stations.
- Gave every employee a customized reusable water bottle and coffee cup.
- Conducted a compostable K-Cup trial.
- Began communicating sustainability information with employees via email, focusing on Earth Day Events, Corporate ESG report, and compostable K-Cups.



2022 ST. LOUIS Green Business Challenge

**APPRENTICE
LEVEL**



Participating in the Challenge for the first time gave us the opportunity to further define ESCO's environmental, social and governance values, and discover opportunities to become more sustainable. We look forward to participating again next year and finding additional ways to reduce our environmental footprint and benefit our local community.

Justin Prien
Director of Environmental,
Health & Safety



 **ST. LOUIS™
GREEN BUSINESS
CHALLENGE**

is a program of:

 **MISSOURI BOTANICAL GARDEN**



FOCAL POINTE
OUTDOOR SOLUTIONS, INC.

Cody Azotea | Account Manager
cazotea@yourfocalpointe.com | 618-540-9593
1921 Ravinia Drive, Caseyville, IL 62232
Owner – 27,500 ft² | Tenant – 9,000 ft²
www.yourfocalpointe.com

2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



I think the Green Business Challenge reflects my philosophy on sustainable success. Green initiatives aren't one-off shiny events to highlight for a moment. Rather, any sustainable, lasting progress is the result of repetitive, incremental improvements. I honor the Focal Pointe team for humbly staying the course, not because of recognition, but because of the Purpose we have built within Focal Pointe. Our team aspires to help the world celebrate the harmony between people and nature, and I couldn't be more proud!

John E. Munie
Founder/President



is a program of:



Accomplishments

- Installed 19,057 plants for clients this year, with 65% native representing 127 species.
- Continued working with growers to return a majority of our plastic pots for reuse, keeping plastic out of the landfill.
- Converted 85 client irrigation clocks to smart controllers with weather stations.
- Collaborated with U City in Bloom to do a volunteer honeysuckle clean up in Ruth Park Woods.
- Volunteered with Forest Park Forever to do prescribed fire preparation in Kennedy Forest.



Innovations

- Installed a winter cutting garden in an underutilized area at Caseyville to sustainably harvest local willow cuttings for our horticultural team to use in winter displays. This garden also removed 12,000 ft² of turf grass, reducing the inputs to maintain this area.
- Over 500 of the plants installed this year were bareroot shrubs and trees, reducing plastic pot and peat use by direct planting.
- Staff achieved Native Plant Professional Certification in the first, limited cadre of individuals certified by this new regional program of Grow Native!



CHAMPION INNOVATION PROJECT Hunter Sustainability Impact 2022

Measurable Elements

- Replaced over 400 fluorescent, incandescent, and HID lighting fixtures with high-efficiency LED fixtures, saving an average of 80 watts/fixture, totaling near 35,000 watts of energy savings.
- Created HVAC schedules to reduce energy usage by 15% utilizing a programmable thermostat.
- Replaced 60s-era flame tube boiler with new highly efficient condensing boilers, reducing natural gas usage by 40%.
- Added two additional stations for Electronics Recycling; 10,251 lbs. of e-waste recycled in 2022.



Qualitative Elements

- Installed occupancy sensors and created lighting schedules for common areas.
- Installed solar energy system generating up to 1 kWh of power in the IT Server Room.
- Installed three-layered panels in building clerestory, doubling insulation R-value of previous panels.
- Constructed rainwater retention systems to mitigate hard surface run-off.
- Converted to usage of Earth Wise Kraft Napkins replacing a less sustainable alternative.
- Implemented usage of Diversey J dilution stations, which are Green Seal certified.



2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



2022 was an exciting year of sustainability initiatives at Hunter Engineering Company, including proactive upgrades to our facilities and enhancements within our recycling program. The St. Louis Green Business Challenge provides us with guidance and support to be a more sustainable company, resulting in economic, social and environmental benefits.

Chip Hiemenz
Vice President



 **ST. LOUIS™
GREEN BUSINESS
CHALLENGE**

is a program of:

 **MISSOURI BOTANICAL GARDEN**

2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



The Green Business Challenge has once again been of great value to Madison County's sustainability efforts, enhancing our ability to share ideas and collaborate with like-minded organizations. We continue to improve efforts in environmental education and stewardship, providing resources and building trust with the residents we serve. Working with Challenge partners, we are able to increase our impact in keeping our community strong and prosperous for future generations.

Brandon Banks
Resource Management
Coordinator



is a program of:



CHAMPION INNOVATION PROJECT

Improving Sustainable Action in Madison County

Measurable Elements

- Madison County Green Schools Program worked directly with 41 schools and impacted nearly 25,000 students through recycling programs, county-wide competitions, professional development opportunities, and educational resources.
- Four electronics collection events were held throughout the year, serving over 1,400 households, and recovering 120,000 lbs+ of electronics for recycling.
- In 2022 our Clean Communities program, focused on cleaning up litter in Madison County, successfully distributed over 1,600 resource kits to residents, each including a safety vest, litter grabber, gloves, and trash bags.
- Over \$142,000 in grant funds were awarded to 11 local government agencies for environmental projects, in addition to \$21,343 granted to 12 Madison County schools.



Qualitative Elements

- Partnering with IEPA, a newly established Household Hazardous Waste site in Wood River doubled the amount of toxic household chemicals collected last year. Open to all Illinois residents, the site collects and safely disposes of paints, chemicals, batteries, and other hazardous materials.
- Sponsored seven Madison County communities for the Green Cities Challenge: Alton, Collinsville, Edwardsville, Godfrey, Glen Carbon, Granite City, and Highland.
- Partnered with IEPA to provide nine large roll-off dumpsters to the communities of Venice Township, Olive Township, and Foster Township. These collection events let residents dispose of bulky items not accepted in their residential trash.
- Renewed public outreach programs, hosting and tabling four community events covering best resource management practices and environmental stewardship. Messaging and outreach boosted recycling rates from roll-off recycling stations and reduced contamination in recycling.



Accomplishments

- Annual Electronics Recycling Drive for Maritz employees and Fenton residents partnered with MRC to keep 6.5 tons of e-waste out of our landfills.
- Demolition and recycling of an unused campus building returned 35,000 square footage of green space to campus.
- Partnered with Persefoni to measure Maritz's carbon footprint including Scope 1, 2 & 3. Added these figures along with many other improvements to increase our CDP and EcoVadis scores.



Innovations

- Maritz Global Events has become a signatory of Net Zero Carbon Events, a joint commitment across the events and meetings industry to achieve the targets laid out in the Paris Climate Accord, net zero by 2050 and emissions reductions by 2030.
- Since 2020, Maritz Automotive has been the implementer and facilitator of the California Clean Fuel Reward, a point-of-sale reward toward the purchase or lease of an eligible new Battery Electric or Plug-in Hybrid vehicle. In 2022, 183,945 customers were rewarded totaling approximately \$137.7M in rewards and 577.8K CO₂ metric tons saved.
- Maritz Global Events co-created a tool to measure the carbon footprint (Scope 3) of an event. We use this product for our own events and our client events to provide reduction recommendations.



2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



Maritz is about people: our people, your people, and the people in our communities. Caring for people and caring for the planet are one and the same for us, so we do all we can to lessen our environmental impacts, as private and corporate citizens and as St. Louis business leaders. We continue to implement internal sustainability initiatives and work with our clients and industry peers toward viable solutions and environmentally friendly practices. Maritz has committed to Net Zero by 2050. Sustainability isn't just something we do, it's our shared responsibility—one we don't take lightly.

David Peckinpaugh
 President & CEO Maritz
 Holdings, President, Maritz
 Global Events



is a program of:



2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



Sustainability is important to our organization. It not only provides incredible benefits to the environment and our region's air quality, it also delivers long-term cost savings for Metro Transit and taxpayers in the bi-state area. Our electric bus fleet is one example of investments we are making to support sustainability and provide our children and neighbors with benefits both now and in the future. This only represents the beginning of Metro's clean energy program. Stay tuned for additional investments!.

Taulby Roach
Bi-State Development
President and CEO



is a program of:



Accomplishments

- Sponsored the St. Louis Earth Day Festival and showcased a zero-emission electric cooling bus at Earth Day and several other large festivals throughout the year.
- Held food drive and donated to area food banks.
- Continued robust recycling program at all agency facilities.
- Continued promotional partnership with the Green Dining Alliance.
- Converted gas forklifts to electric at all facilities.
- Continued sustainable purchasing of office supplies.
- Continued native landscaping on properties.
- Remote working allowed for much of HQ staff.



Innovations

- Operating 24 zero-emission battery electric buses that reduce emissions by 160 tons per year compared to a diesel bus.
- \$5.4 million grant from Federal Transit Administration will add bus-charging infrastructure and up to 12 electric buses, as clean-burning diesel buses are retired.
- Expo at Forest Park, a new transit-oriented development (TOD) community, raises the bar for TOD projects locally and nationally, including adaptive reuse of existing transit infrastructure and real estate. Over 50% of this community's tenants do not own cars.
- Don't Pollute. Switch Up Your Commute! campaign informed citizens about air quality and encouraged transit commuting.
- Via Metro STL, a first-mile/last-mile service, boosted ridership by extending Metro Transit's capacity to connect riders to their destinations.
- Mobile Food Pantry at Transit Centers, a partnership with St. Louis Area Foodbank, expanded its free Food on the Move program to help address food insecurity.



CHAMPION INNOVATION PROJECT

Community E-Waste Collection Events

Measurable Elements

- MRC provided Full-Service Collection Event e-waste recycling for 81 event hosts, year to date in the State of Missouri, with 4 events scheduled for December 2022. 45 of these events served Missouri municipalities, 36 events served organizational hosts.
- YTD in Missouri, from Community Collection Events, MRC collected and processed:
 - › 569.49 tons (1,138,997 lbs.) of electronics
 - › 2,859 cathode ray tube (CRT) TVs and Monitors
 - › 829 freon containing appliances
 - › 2,352 LED/LCD TVs.
- MRC is an R2v3 Certified electronics recycling company.



Qualitative Elements

- Organizational events provide "Everything with a Cord" e-waste recycling for: area businesses, hosting for their employees; churches; county governments; schools and universities; and neighborhood associations. These events are often also open to area residents.
- Additional Self Service Collections worked with event hosts to collect material, with MRC picking up electronics post-event for processing.
- MRC also provides e-waste collection event services in Kansas and Illinois. These collections were not included in this Innovation Project report.
- We venture into areas of recycling beyond e-waste as a value-add to our clients and the community. An example is EPS (Styrofoam) recycling. This project will be implemented at our Kansas City facility where we will densify EPS #6 to be available for new manufacturing.

2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



The St. Louis Green Business Challenge continues to lead, advocate, educate, and empower member organizations to support actions to increase sustainability initiatives within our businesses. MRC is honored to be a part of the Challenge, as we grow our business within the framework of sustainability. The Challenge helps us prioritize our efforts and plan for future projects and accomplishments.

Greg Cooksey
Director, Business Development & Compliance



is a program of:



2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



Missouri Botanical Garden is proud to focus on the Jack C. Taylor Visitor Center as our Champion Innovation Project. Years in planning, this gracious new doorway and welcome to the Garden was supported by over \$100 million in private donations. Completion of adjacent Bayer Event Center and North and South Gardens is on track for Spring 2023. The building and grounds embody the Garden's commitment to sustainability through accessibility, design and presentation, and operations. Come for a tour to experience sustainability, biophilic design and the year-round living beauty of Missouri Botanical Garden!

Glenda Abney
Vice President, Sustainability



is a program of:

CHAMPION INNOVATION PROJECT

Jack C. Taylor Visitor Center Showcases Sustainability and Biophilic Design

Measurable Elements

- A 220 kWh solar array fills roof of the structure and six new free EV charging stations now provide 10 chargers as a public amenity.
- Underground cisterns holding 50,000 gallons will filter and sanitize rainwater, eliminating municipal-source water treatments for building plant irrigation, and Rainscaping plantings will retain 30,000 additional gallons of stormwater on-site.
- Low flush and low flow fixtures reduce building potable water demand by 32%. Indoor and outdoor water management should meet 86% of total site demand, saving an annual average of 679,392 gallons of municipal water use.
- Optimized building envelope and mechanical systems ensure comfort while reducing annual energy costs by 23% from standard technologies.
- 30,000 new plant specimens (350 different species) await spring 2023 planting.



Qualitative Elements

- Project is on target to achieve LEED-Gold certification.
- Biophilic Design elements directly connect visitors to the Garden through the building's orientation and elements that represent nature in interior spaces, including: brass tree leaves embedded in terrazzo floor; botanical specimen wall panels; café bench and community table repurposed from a Shumard Oak; light fixtures suggesting rose petals, rain drops and fireflies; overhead panels replicating woodland dappled light.
- Bird Frit, patterns of dots embedded in exterior glass, prevents bird-building collisions.
- Digital displays and electronic ticketing reduce print visitor materials, fulfilling guest requests and internal conservation goals.





Accomplishments

- Established sustainability tracking practices to divert exhibition material waste from landfills.
- Worked with LEDR Recycling to recycle 95% of exhibition waste from demolition of Beyond the Ballot and construction of Coloring STL exhibits.
- Library shelving made redundant after installing compact shelving was donated to the Griot Museum & Landmarks Association.
- Donated tables, pews, 300 banquet chairs and a portable stage are being reused by community partners.
- Hosted Green Living Festival with EarthWays Center, featuring Green family activities in the History Clubhouse and an MHS-led Forest Park Environmental History Tour, exploring how St. Louis has managed nature from taming the River Des Peres to prairie restoration.
- Soldiers Memorial received a national Buidly Award for sustainability & accessibility.



Innovations

- Replaced an aging mail van with an EV. Three of MHS's five vehicles are now Green, with two all-electric vehicles and one PHEV.
- Installed four EV ChargePoint CT4021 charging stations at the Missouri History Museum, utilizing the Ameren Missouri Charge Ahead incentive program.
- Automated all purchase requisitions and check requests, resulting in conservation of paper and increased efficiency.
- Enrolled in PrintReleaf for our production printer and copiers. Since we joined this program, over 160 trees have been planted to offset our printing.
- All three of our facilities are LEED certified: Soldiers Memorial, LEED Gold; Missouri History Museum, LEED Silver; and Library & Research Center, LEED Silver.
- Soldiers Memorial is also TRUE zero-waste certified, the first museum in the U.S. with this certification.

2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



Missouri Historical Society assumes responsibility for our role in environmental stewardship. The Green Business Challenge has helped us as we work to minimize consumption, treat waste responsibly and make sustainable practices an integral part of our operations. Our commitment to engaging St. Louisans with the history of this region, so that we can all improve our community, requires us to work toward a more sustainable future. The Challenge is a great resource for us, keeping us connected with other organizations and businesses working to develop Green practices.

Karen Goering
Managing Director of
Administration and
Operations



is a program of:





Britt Singer | Sr. Trainer, Community Outreach
bsinger@mtm-inc.net | 636-695-5592
16 Hawk Ridge Circle, Lake St. Louis, MO 63367
Owner – 42,148 ft²
www.mtm-inc.net

2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



At MTM, initiatives related to sustainability and protecting our environment are the threads weaving our existence. We think carefully about our approach to sustainability, and we are proud to lead the transportation industry in mitigating the impacts of climate change through more sustainable transportation solutions. We have a long way to go, but we're taking significant steps to reduce our carbon footprint and make a positive impact on our industry, and our Earth as a whole, as we seek to make transportation more sustainable for future generations.

Alaina Maciá
President & CEO



is a program of:



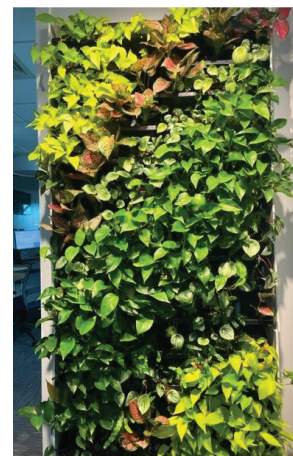
Accomplishments

- Staff participants in April Earth Month and Plastic-Free July Eco Challenges ate more vegan/meatless meals; spent 2,200+ minutes learning about sustainability, local Green initiatives, and improving their carbon footprint; and completed home energy and waste audits.
- Eliminating employee locker batteries saved annual purchase/disposal of 1,250+ batteries.
- Encouraged employee participation in Challenge Virtual Brown Bag and Deep Roots online seminars, and City Nature Challenge.
- Updated the roof of Lake St. Louis headquarters with a heat-reflecting white silicone coating and installed a higher efficiency air conditioning system.
- Reducing waste through water bottle filling stations with signage and providing employees with glass water bottles and reusable coffee mugs.



Innovations

- Biophilic interior design at Lake St. Louis office includes moss, rock, and waterfall fixtures; planted living walls; and rooms with fluffy cloud light fixtures in painted blue “skies.” Biophilia helps keep us refreshed, energized, and connected with nature throughout the workday.
- Our Travel Training program ongoing partnerships with Metro in St. Louis and other U.S. public transit agencies educates riders on using public transit services safely.
- A new transit per diem incentivizes staff to utilize public transit or rideshare services as alternatives to rental vehicle during business travel.
- Ran a social media and internal campaign on what our employees love about working from home, and how it helps environmental/sustainability efforts and reduces our carbon footprint.
- Draft formal ESG Charter demonstrates our commitment to sustainability, with a goal to launch in Q1 2023.



Accomplishments

- Formed a sustainability team, the Green Machine, with members from several departments.
- Created and distributed several Green Newsletters containing team status along with sustainability information and tips.
- Installed LED lighting in an expansion space of the office and pharmacy.
- Looking into participation in Ameren's Community Solar project as part of our 2023 budget.



Innovations

- Established a building-wide recycling program, thus diverting approximately 80% of solid waste from the landfill.
- Held a Green Wednesday event with the entire organization covering several areas of sustainability, including plant-based diet, recycling, climate change educational videos and personal sustainability phone app.
- Organized a Trash Bash cleanup event along the Katy Trail.
- Finalized a hybrid Work from Home policy for the organization.



2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



This year was the first time Optime Care has worked on sustainability, and the St. Louis Green Business Challenge was a great guide that helped our Green Machine Team to narrow our focus. The Challenge staff was a wonderful resource when we had specific questions. We are very glad we participated, and look forward to additional sustainability progress in the future.

Doug Carlson
SVP, Quality

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is a program of:

 **MISSOURI BOTANICAL GARDEN**

2022 ST. LOUIS Green Business Challenge

**LEADER
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Perficent recognizes and embraces our obligation to the environment, to our shareholders, and to society in general to make substantive efforts to conduct business in a manner that leaves a minimal carbon footprint on the environment. Participating in the St. Louis Green Business Challenge has provided us with great resources and ideas to continue to grow our sustainable initiatives not only in our St. Louis office, but companywide.

Sarah Shapiro
 Regional Marketing Manager
 and Green Team Lead



is a program of:



Accomplishments

- Reduced amount of single use purchasing such as disposable plates and silverware.
- Provided ongoing education to our employees about sustainable practices.
- Hosted a Get To Know Our Committees breakfast event allowing colleagues to find out more and join the Green Team among other committees. This doubled the size of our Green Team.
- Expanded our e-waste recycling program. Perficent reuses, recycles, and upcycles its end-of-life electronics, computers, and batteries responsibly in partnership with NiloTech Ecycling. Where recycling is not possible, Perficent donates its electronic equipment and batteries to appropriate e-waste disposal companies.
- Decreased the number of printers in use in our offices, and increased our use of recycled paper and other materials where possible. In addition, printers are set to automatically print double sided.

Innovations

- Hosted a nation-wide food drive competition among our offices and remote workforce during Hunger Action Month. We collectively donated the equivalent of more than 5,624 meals to local food banks across the country. Our St. Louis office contributed 515 cans, 215 lb. of dry food, and had 54 volunteer hours logged at the St. Louis Area Foodbank.
- Perficent is in the process of certifying its Environmental Management System under ISO 14001:2015, the international standard for an effective EMS that an organization can use to enhance its environmental performance.
- Created a public Environmental Responsibility Statement on our website.



Pulitzer Arts Foundation

Prema Cruz | Executive Assistant
pcruz@pulitzerarts.org | 314-754-1850
3716 Washington Boulevard, St. Louis, MO 63108
Owner –30,000 ft²
www.pulitzerarts.org

Accomplishments

- Maintenance and modifications of our HVAC systems continues to be a priority resulting in ongoing savings and efficiencies. After 25 months of monitoring our systems, a savings of \$44,000 in utilities costs was generated.
- Recycling bins placed in garage for staff utilization.
- Park-Like and the Spring Church garden, once empty lots, were designed and built by Chris Carl of Studio Land Arts. Both sites feature native plants, Rainscaping systems and sustainable ecological infrastructure.
- Eliminated previous drinking vendor, Absopure, along with plastic equipment. Replaced with water tap dispenser.



Innovations

- Keurig KCup (coffee) Recycling program.
- Use of Reusable Keurig KCups to limit plastic throwaway KCups.
- Composting bins placed in all three kitchens across campus for weekly disposal of organic materials by staff member for soil fertilization at his farm.
- Collaboration with landscape architect Kotchakorn Voraakhom who is serving as designer-in-residence at the Pulitzer and the Sam Fox School of Design & Visual Arts at Washington University. Her Thailand-based practice, Porous City Network, designs urban green spaces that alleviate the effects of climate change in at-risk communities. She will visit St. Louis again in November and March to continue research with students on area water systems.

2022 ST. LOUIS Green Business Challenge

**LEADER
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The Pulitzer Arts Foundation is committed to being a community leader in sustainability efforts, creating efficiencies within our own organization to capture energy savings and reducing the overall carbon footprint. We are excited to participate with other local organizations in the Green Business Challenge, learning and being inspired in our efforts to innovate.

Scott Jannings
Director of Facilities and
Security



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2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



We wanted to bring the beauty of native plants to a public place, and we did that with our major Challenge project of the year. We hope it inspires people to add more beneficial natives to their own properties!

Dennis Evans
Owner



is a program of:



Accomplishments

- Team training to ID invasive plants, and recommend removal or replacement with native alternatives.
- New business cards are now printed on recycled cardstock, with a reduced order quantity in an overall effort to reduce print materials we use.
- Added native plants to our campus, to serve as a learning space for plant identification for our team and visitors.



Innovations

- Organized two volunteer days to pick up trash at our Adopt-A-Highway Beautification project in Olivette, Missouri.
- Planted a native-forward garden in the place of overgrown weeds at the same location.
- A signage series was designed to educate commuters on the benefits and beauty of native-forward landscape designs.





Sarah Keifer | SharePoint & Data Analyst Manager
 env.stewardship@Roeslein.com | 314-729-0055
 9200 Watson Road, Suite 200, St. Louis, MO 63126
 Tenant
 www.roeslein.com

Accomplishments

- In honor of Earth Day, Roeslein hosted its second e-waste recycling event, utilizing certified local providers at all six domestic locations. Our St. Louis, MO and Red Bud, IL offices collectively recycled 2,063 lbs. of e-waste.
- Roeslein's annual CANpaign pitted five different locations against each other to collect the most pounds of aluminum cans per employee. This year 1,935 lbs. of cans were collected. Red Bud office won big with a total of 1,599 lbs. of cans recycled. A donation of \$2,000 to Canned Water 4 Kids honored the winning location.
- During Earth Month, Roeslein held Mondays for the Future, a 5-week email campaign. Employees received educational content each week about a different environmental topic with a related challenge they could try with their families at home.



Innovations

- In September Roeslein hosted a plant sale organized by the Missouri Prairie Foundation (MPF) featuring four Grow Native! vendors. Vendors donated 5% of sales and, with a match from Roeslein, raised \$775 to support the work of MPF. Many employees and community members attended.
- Donated 97,392 reusable aluminum bottle-cans (4,058 cases) of water to 24 local organizations. The purchase of the water also supported Canned Water 4 Kids, a non-profit that works to ensure clean drinkable water for children across the globe.

2022 ST. LOUIS Green Business Challenge

**LEADER
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Being part of the Green Business Challenge provides structure for our new Environmental Stewardship committee. As we finish up our second year as a team the Green Business Scorecard provides us with invaluable ideas and focus, both for what we can accomplish today and where we can head in the future. With my two-year term as co-chair coming to an end, I know that the next leaders will have the same great resources and support available from Challenge leaders and the larger Challenge community.

Sarah Keifer
 SharePoint & Data Analyst
 Manager



is a program of:





Siu Chu | Sustainability Committee Chair & Senior Business Systems Analyst
Siu.Chu@safetynational.com | 314-692-1383
1832 Schuetz Road, St. Louis, MO 63146
Owner – 300,000 ft²
www.safetynational.com

2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



Safety National's ESG strategy and sustainability efforts are guided by Our Core Values and our Vision to be First With Community. Being a good community partner starts with being a good employer. Employees are key partners on our journey to reduce environmental impacts. Safety National's employee-led Sustainability Committee provides consistent, valuable awareness-building education, as well as opportunities to give back to the community. Corporate Operations strive to reduce environmental impacts and support employee efforts. The more we work together, the more sustainable impacts we can make.

Angela Schaefer
Chief Human Resources
Officer & ESG Committee Chair



is a program of:



CHAMPION INNOVATION PROJECT Commitment to Conservation

Measurable Elements

- **Clean Energy on Campus:** The solar panels on our main headquarters building generated more than 80,700 kWh over the last 12 months, equivalent to a cost savings of \$7,440.24. Energy produced by the solar array on our secondary building is equivalent to planting 1.2 trees per day!
- **Engaging Employees in Recycling Initiatives:** Through various activities throughout the years, our employees have helped us recycle more than 11,000 lb. of electronics and 183 lb. of holiday lights. We also collect approximately 500 plastic bags per month, that are repurposed and woven into sleeping mats for the local homeless population.
- **Preventing Waste in Landfills:** Clean water filling stations have helped us avoid using more than 32,700 plastic bottles this year; refill counters at each station educate and motivate employees.



Qualitative Elements

- **Sustainable Materials Use:** In 2022, we purchased lawn furniture created from recycled materials and donated our previous furniture to a local nonprofit agency. Reusable flatware in kitchens minimizes single-use plastics. Our facilities are maintained with Green Cleaning products.
- **Building a Knowledge Base:** Safety National Sustainability Committee provides consistent opportunities for education and engagement, this year including a biodiversity talk by Missouri Botanical Garden's Jean Ponzi. A hands-on Transformation Contest had employees "up-cycling" items that would have been landfilled, creating beautiful decorations.
- **Encouraging Sustainable Activity:** Hybrid work options increased in July, providing flexibility for employees who may work from home two days per week, compared to six days per quarter, pre-pandemic. For third quarter 2022, 79% of employees used the WFH policy in some capacity. Over 9,000 days utilized reduced vehicle miles, and energy and water usage on campus.

Accomplishments

- Continue to retrofit lighting to energy-efficient LED in all Museum buildings.
- Replaced air handling units in the east Main building, to qualify for energy rebates.
- Put all hot water pumps into a loop system with frequency drives, to save energy by controlling motor speed and output.
- Further reduced energy consumption through improving domestic hot water system flow and heating the water with boilers instead of electricity, as has been done previously.



Innovations

- Green Team organized events and activities in April to celebrate Earth Month, including a family-friendly volunteer litter cleanup in Forest Park.
- Green Team hosted our own Virtual Brown Bag program with recycling updates from the St. Louis City Recycles team.
- Established a checklist to reduce waste at Museum events.
- Hosted the Green Living Festival Pop-up with the EarthWays Center of Missouri Botanical Garden, featuring festival exhibitors in Sculpture Hall, a tour of the Art Hill flower gardens led by staff of Forest Park Forever, Museum docent tours highlighting works of art made with discarded or reused objects, and a presentation on eco-criticism by art curator Amy Torbert.



2022 ST. LOUIS Green Business Challenge

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The Saint Louis Art Museum continually values the St. Louis Green Business Challenge as a guide to achieve our sustainable goals. Having access to free tools such as the Virtual Brown Bag seminars and GreenBiz Tracker, allows the Art Museum to connect with peers and learn about local Green vendors and sustainable initiatives, and helps us better track and report our efforts.

Maria Kveton
Museum Events Manager
and Green Team Leader



is a program of:





Hosei Maruyama | Director, Facility Operations & Planning
hmaruyama@cardinals.com | 314-345-9404
700 Clark Street, St. Louis, MO 63102
Owner – 1,300,000 ft²
www.mlb.com/cardinals

2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



The St. Louis Green Business Challenge continuously provides support and added value to the environmental stewardship that the St. Louis Cardinals are committed to. Energy conservation, minimizing waste, and making environmentally sound decisions are some of the ways the Cardinals stay pledged to this pursuit. The resources and information available through the Challenge have assisted with furthering these initiatives, and the Cardinals remain dedicated to seeking out new opportunities that foster sustainability in the future.

Mairead Scanlon
Coordinator, Facility
Operations



is a program of:



Accomplishments

- The St. Louis Cardinals completed a parking lot lighting upgrade project in 2022. Several measures enhanced illumination of the lot with an environmentally friendly approach. The project updated the existing electrical service and relocated it to a safer location and installed 78 LED light fixtures.
- New parking lot illumination averages six-foot candles of illumination, compared to the standard, usually around two-foot candles.
- Using the same number of metal halide fixtures as LED fixtures would have consumed an estimated 7,566 more watts, while getting 1,103,700 less lumens of light.

Innovations

- The St. Louis Cardinals were a co-finalist in the National League Central Division for MLB's 2021 Green Glove Award, an award given out based on waste diversion.
- The Cardinals and hospitality contractor Delaware North participate in various programs that foster sustainability through recycling, composting, and food donation.
- The Cardinals participated in the National Recycling League, a new program developed by Anheuser-Busch to reduce waste on game days. Representatives from Anheuser-Busch and the Green Sports Alliance took part in a pre-game ceremony to highlight the initiative. Additionally, executives and members from the groups collected recyclables from fans in conjunction with Busch Stadium's Green Team.



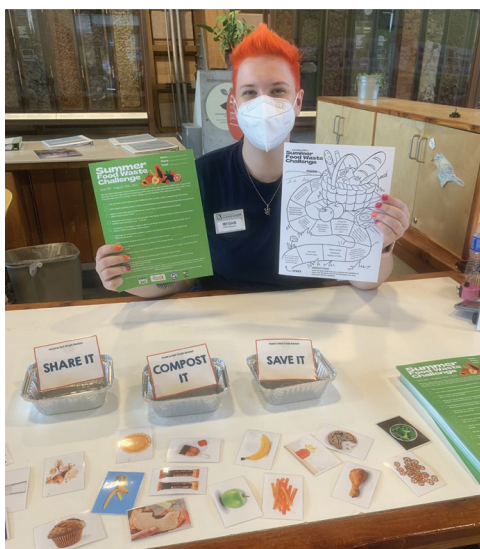
Accomplishments

- Installed educational signage at water bottle filling stations.
- Redesigned and installed signage for recycling and trash on 75% of receptacles.
- Prototyped a zero-waste event at the Member event for “Becoming Jane” exhibit.
- Coordinated and ran educational lunch-n-learns on meal planning, gardening and bike commuting.
- Worked with ZMD partners to successfully launch a pop-up Green Living Festival in June.



Innovations

- Designed a gameshow called “Will it Recycle” and ran it at an all-staff meeting as an educational tool.
- Purchased used knives, forks and spoons from resale shops and made 200 reusable utensil kits to deliver to all staff as well as incoming staff.
- Included information about Climate Change in a new exhibit to be installed December 2022.
- Worked with earthday365 to publicize the Food Waste Challenge and to provide education to help guests reduce food waste.



2022 ST. LOUIS Green Business Challenge

**LEADER
LEVEL**



Being part of the St. Louis Green Business Challenge helps us find focus and support as we navigate improvements to our sustainability practices, and build a culture of sustainability within the organization. We look forward to continued growth and adaptation with the Challenge as our partner.

Maddie Earnest
 Manager, GROW and Life
 Science Galleries
 (Co-Lead of Sustainable
 Futures Team)

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2022 ST. LOUIS Green Business Challenge

CHAMPION INNOVATION PROJECT



The St. Louis Green Business Challenge continues to lead an inspiring community of accomplished and determined folks that motivate our Zoo team toward innovative solutions. This year, Zoo Museum District peers brought Sustainability Pop-Ups to all five organizations with the Missouri Botanical Garden's Green Living Festival. What a great way to celebrate 50 years of the Zoo Museum District, and our collective commitment to sustainability in our community. We are so fortunate to have the Challenge to support, educate, and encourage our efforts!

Wanda Kolo
Director of Sustainable
Operations & Construction
Management



is a program of:



CHAMPION INNOVATION PROJECT Campus Light Pollution Reduction

Measurable Elements

- Exterior light inventory was provided by facilities team.
- Existing light fixture specifications were reviewed.
- Dark-sky friendly fixture samples ordered and being tested.
- Lighting consultants used light meters to measure brightness to inform lighting layout.



Qualitative Elements

- Aerial photography was taken in the late evening to get visual snapshots of exterior lighting.
- Daylight sensors and timers are programmed to reduce length of time that lights are turned on.
- Cross-departmental training about light pollution issue and dark sky friendly best practices.





Connor Tarter | Specialist, Sustainability
Connor.Tarter@spireenergy.com | 314-356-1834
700 Market Street, St. Louis, MO 63101
Tenant – 130,000 ft²
www.spireenergy.com

Accomplishments

- Focused on coming together as a community to create a sustainable energy future.
- Continued our commitment to becoming a carbon-neutral company by 2050.
- Voluntarily collecting data to assess our overall carbon footprint.
- Engaged suppliers and contractors in our supply chain through a sustainability questionnaire.
- Completed third-party facility energy audits to baseline our energy use and identify additional opportunities for energy efficiency upgrades.
- Assessing alternative fuel vehicles for their emission reduction potential.
- Installed high-tech GPS units in our vehicles to increase vehicle safety and monitor and reduce idling.
- Hosted a training workshop to connect with resources and learn more about the City of St. Louis Building Energy Performance Standard (BEPS).
- Promoted water bottle filling stations for employee use to reduce plastic bottle use.



Innovations

- Sponsored and participated throughout the series of the 2022 EarthWays Green Living Festival.
- Continued the annual Day for Good campaign resulting in 700 Spire employees volunteering nearly 5,500 hours with 63 different organizations.
- Partnered with RideFinders to host an informational webinar to learn the added benefits and environmental impacts linked to ride-sharing.
- Leveraged informational material from the Plastic Film Recycling initiative to educate employees on ways to utilize sustainable practices and options for recycling single-use plastic.



2022 ST. LOUIS Green Business Challenge

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At Spire, we continue to seek out innovative ways to keep sustainability and our commitment to the environment at the forefront of our current initiatives and future planning efforts. The St. Louis Green Business Challenge has helped our organization identify and address improvements on how we can all work towards a sustainable future. I am proud to work for a company that values the environment and I look forward to what we can accomplish together in the future.

Connor Tarter
Specialist, Sustainability



is a program of:



2022 ST. LOUIS Green Business Challenge

**CHAMPION
LEVEL**



This year's Virtual Brown Bag webinars from the Green Business Challenge team were a beneficial information exchange and resource. The programs helped us stay current on the best practices of our fellow Challenge companies.

Eric Schneider
Director of Business
Development



is a program of:



Accomplishments

- Re-charging our Green Team activity, post-pandemic.
- Community service activities included work with earthday-365 Environmental Justice Day of Action cleanup in O'Fallon Park in North City, and volunteer work contributed to EarthDance Organic Farm.
- Donated \$900 to support work of the Southern Illinois University Sustainability Office.



Innovations

- Achieved B-Corp re-certification.
- Customer projects installed in 2022 have offset 13,529,000 pounds (5411.6 tons) of CO2 emissions.
- StraightUp Solar is proud to have designed and serviced the new solar array at the Jack C. Taylor Visitor Center of Missouri Botanical Garden.





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St. Louis Green Business Challenge



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As the Missouri Botanical Garden's Sustainability Division, the EarthWays Center enriches lives and protects plants and our environment by educating and connecting people to practical sustainable solutions where they live, learn, work, and play.

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- Businesses
- Local Communities
- Individuals and Families
- Homeowners and Renters
- Professionals
- Schools
- K–12 Students and Educators
- Universities and Colleges



Through the **St. Louis Green Business Challenge**, EarthWays Center helps companies of all kinds and sizes make sustainability work, in policy and practice.

We can also customize fee-for-service consulting for sustainability certification, planning or implementing company-specific green projects, boosting employee education and engagement—and more. Let EarthWays help develop the Sustainable Solution that works for your business.



The Missouri Botanical Garden's EarthWays Center

4651 Shaw Boulevard | St. Louis, MO 63110

314-577-0220 | mobot.org/sustainability

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Special Thanks



2022 Challenge Staff

Jean Ponzi – Green Resources Manager

Angelina O'Donnell – Program and Event Specialist

Glenda Abney – Vice President, Sustainability

For more information on the St. Louis Green Business Challenge, contact:
Jean Ponzi, Missouri Botanical Garden, 314-577-0246 or jponzi@mobot.org.
www.stlouisgreenchallenge.com

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