UNIVERSITY OF MISSOURI

2015 CAMPUS MASTER PLAN & CLIMATE ACTION PLAN UPDATE

Shared Governance Defines Annual Plan

While faculty, staff and students have always played an important role in master planning and sustainability planning, this past year has seen a renewed interest in appointing faculty chairs with an interest in a more robust shared governance structure to head the Campus Facilities Planning Committee (CFPC) and the Campus Space Utilization Committee (CSUC). Committee's roles are now clearly defined, and the openness with which the committee members and administrators operate is much more conducive to making real progress toward goals. (See page 8.)

"Since fall of 2014, most requests for moving department offices or other spaces within existing or new space has had the oversight of the new Campus Space Utilization Committee. This extra step considers faculty, staff, and student concerns and input in the decision making process," Michael Goldschmidt, faculty chair, CSUC.

First on the Campus Facilities Planning Committee's agenda last fall was to review, comment and approve the infill study as well as work with MU's master planner Linda Eastley on this year's master plan map. (See pages 2-7, 10-11.)

"With guidance from the master planner, committee members visited sites and buildings reviewed by the Infill Study Working Group and discussed their potential for new and enhanced uses that would support the principles of the Master Plan. The committee provided additional insights and suggestions on priorities and opportunities," Brian Dabson, faculty chair, CFPC.

Finally, the Environmental Affairs and Sustainability Committee (EASC) was instrumental in assisting with the completion of the Sustainability Tracking and Rating System (STARS) report and monitors MU's climate action planning process as it relates to the American College and University Presidents' Climate Commitment.

"We helped guide the staff in preparation of the STARS report, pooling our combined knowledge of the resources available around campus, resulting in the most thorough submission we have had to date. This demonstrates the outstanding teamwork in our group," David Beversdorf, faculty chair, EASC.

Vice Chancellor Operations Gary Ward, EASC chair David Beversdorf, the MU sustainability manager and MU's sustainability consultant Meredith Elbaum will work in 2015 to clearly define the role of the EASC.

MIZZOU BY THE NUMBERS



ONGOING PLANNING AT MIZZOU COMPLEMENTARY PLANS ARE INTEGRATED INTO CAMPUS MASTER PLAN

Stormwater Master Plan

Geosyntec in 2012 assisted MU staff with developing a stormwater master plan that provides an adaptable framework for designing and planning future stormwater improvements across campus. The goal of the plan is to protect the waters surrounding our campus through sustainable controls and green infrastructure. As new stormwater improvements or Best Management Practices (BMPs) are installed, MU researchers are monitoring stormwater properties to determine their effectiveness. As research data is collected and analyzed, the design guidelines for stormwater BMPs are adjusted to maximize their treatment potential. The stormwater master planning effort to ensure opportunities for stormwater treatment baseline map identifies the best that future planning provides space or to improve stormwater conditions opportunities across campus for for stormwater improvements. In near new campus projects.

Society is more complex than ever before and so is managing water resources. The University of Missouri is progressively advancing understanding of floodplain and stormwater management at the landscape level, advancing sustainability and stewardship of the resource and improving human health on and off campus.

- Jason Hubbart, professor of forest hydrology

stormwater improvements. This plan addition, the baseline map is adjusted

is integrated into the overall campus annually to take advantage of new

Landscape Master Plan

In the summer of 2014, the University began its first landscape master plan (LAMP). The LAMP is grounded in the campus stewardship model and will focus on how the outdoor environment can directly support the learning and social environment of the university.

The purposes of the LAMP are:

- Continue the growth of the Mizzou Botanic Garden as a University resource for education, research and extension opportunities.
- To identify important landscape resources on the campus today.
- To establish a menu of landscape spaces (quadrangles, courtyards, streets, campus entries, etc.) and provide guidelines for how and where these spaces will be built over time.

To create recommendations for phasing key landscape projects.

A cross-sectional group of staff and faculty provide their perspectives and expertise to this study, and the group will meet with the Campus Facilities Planning Committee at key milestones.



Utilities Master Plan

In 2014 MU Energy Management began working with Confluenc, a utility master planning consultant, to forecast necessary changes to the campus power plant along with additional renewable energy options. Confluenc uses a unique customizable, analytical modeling tool to evaluate the best solutions to meet the energy needs of the campus. The Utility Master Plan will help ensure the campus continues to be served with reliable, efficient and sustainable utilities. Integrating the utility master planning effort with overall campus master planning will make sure necessary utility services will be available when new space is added.

Coffin Promoted to Energy Management Director

Gregg Coffin helped Paul Hoemann has the lowest building energy use build MU Campus Facilities-Energy Management into a national leader as benchmarked by Sightlines, an among colleges and universities, so it's only fitting that Coffin should take the firm; and MU has the lowest electric helm as Paul Hoemann retires after 28 vears at MU.

"From my perspective, as part of his MU also has one of the most efficient staff for 28 years, Paul is an incredibly innovative guy," said Coffin, who was promoted to the director of Energy Management on Jan. 1.

Paul didn't have the idea himself, he spurred others on to come up with ways to improve utility reliability, conserve energy, and use more sustain<mark>abl</mark>e energy sources.

- Gregg Coffin, director of Energy Management

Energy Management's nationally recognized energy conservation program has reduced energy use by 19 percent per square foot in academic buildings and has created an annual cost avoidance of \$8.4 million. Mizzou staff."

Gregg Coffin, left, and Paul Hoemann

per square foot compared to its peers independent facilities benchmarking consumption per square foot of 10 SEC universities in the Sightlines database.

combined heat and power plants in the nation as recognized by the EPA Energy Star partnership and recently added biomass energy to its renewable energy portfolio which reached 24 percent of all energy for campus last year. Coffin will carry the torch, as MU continues to expand its renewable energy portfolio when it makes economic, social and environmental sense.

"We have currently reduced our greenhouse gas emissions by 36 percent from our 2008 baseline, which is one year earlier than our projections," Coffin said. "It's exciting to lead a forward-thinking team. We intend to continue to improve the campus utility services through the innovation of our



Infill Study

For the past two years, a cross-sectional campus group began studying where future development might occur on MU's core campus. Beginning in 2014, the University's Campus Facilities Planning Committee reviewed the work of the group and refined recommendations for campus growth. The product of the study is a series of working documents that will be referenced and updated annually and reviewed more extensively every five years.

As part of the study, both groups collectively identified available campus sites, overlaid important circulation routes and open spaces networks, campus resources and utility corridors, and made recommendations for project sites that could be further studied when funded projects go through their planning processes.

Particular focus was placed on the appropriateness of building or open space scale and massing relative to a site's context. No use or user group was identified for each project intentionally; rather, the goal is to identify an intentional framework of setbacks, view corridors, height ranges and energy demands that works comprehensively for the campus.

Pages 4 through 7 of this document highlight these future possibilities by these four core-campus areas: north of Rollins Street, south of Rollins Street, south of Stadium Boulevard and east of College Avenue. A diagram showing the compilation of all districts is located in the centerfold of this publication. While many project sites are shown on the infill diagram, it is unlikely that all sites will be needed to accommodate future University growth.

INFILL STUDY NORTH OF ROLLINS STREET

This area highlights the historic Red and White Campuses, as well as the important seam where the campus and city land comes together. Potential building sites are drawn in map view and rendered in blue with black hatching. Photographs help orient the viewer to some of these potential sites.

The MU master plan Infill Study data is helping to develop the potential long-term impact to the campus utility system as part of a utility master planning effort.

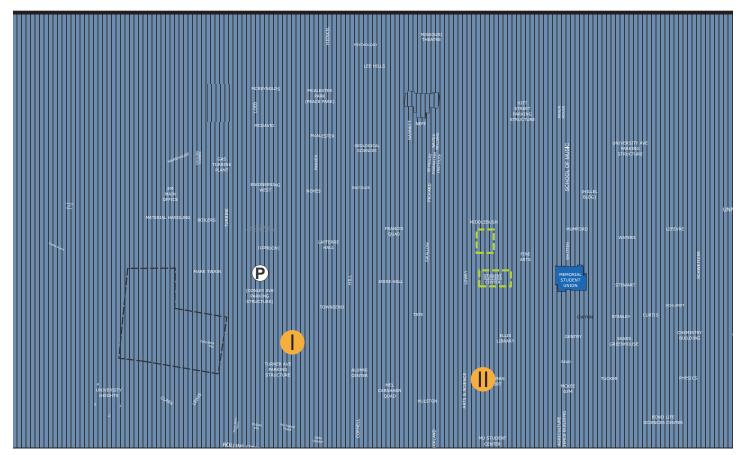
- Mike Walter, MU's utility master planner

BASIC MAP LEGEND

Recently Completed Construcion In Design or Construction In Planning E&G Buildings Requiring Renovation Possible Future Structures Existing University Buildings Streams and Ponds Featured Building/Area ⑦ University Parking Structures ••• Major Bikeways Future Open







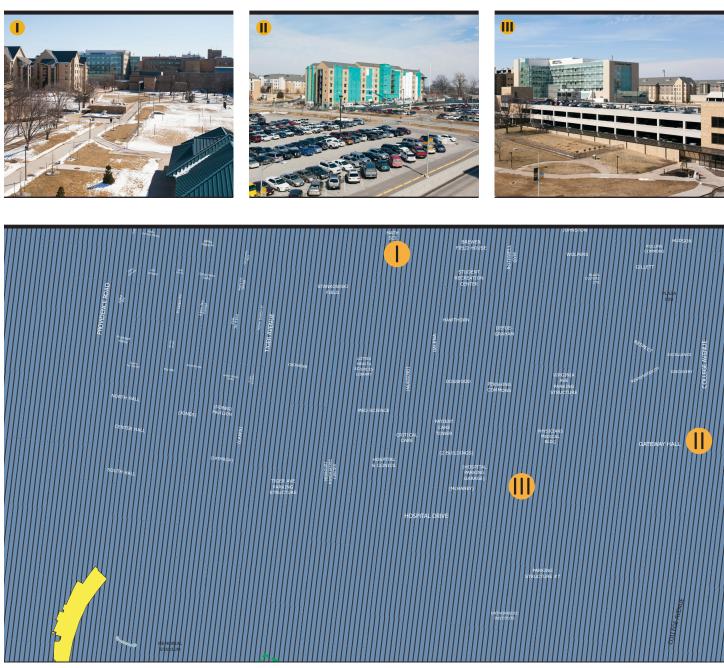
INFILL STUDY SOUTH OF ROLLINS STREET

Academic, health care, residential and student life, and support buildings are reflected in this part of campus. The map identifies opportunities to allow expansion of these existing uses, and also shows a proposed future realignment of Hitt Street's southern block.









The MUHS master plan elevates the patient experience of the adult hospital and clinics, while accommodating growth and facility renewal for all academic and research programs.

- John Reeve, MU's health system master planner

INFILL STUDY SOUTH OF STADIUM BOULEVARD

Intercollegiate Athletics, recreation uses, the Research Commons, surface parking and support buildings are located in this area of campus, and Stadium Boulevard has an important function as one of the primary gateways to campus.

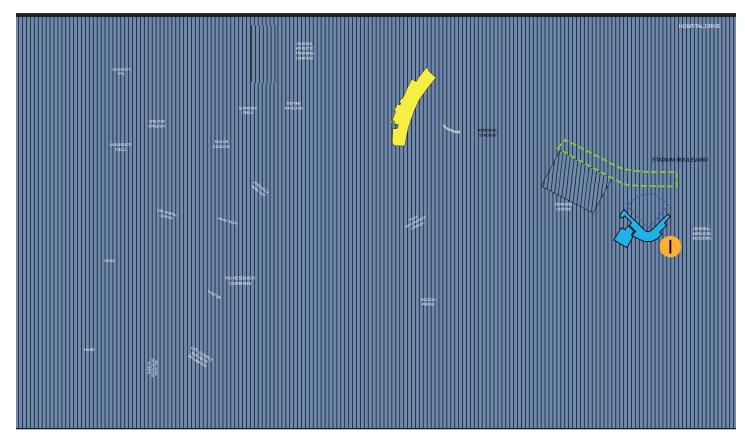
Mizzou Athletics remains committed to providing the highest quality training and competition venues for student-athletes, coaches and fans while contributing to the vitality and connectivity of the overall campus environment.

> - Tom Waggoner, MU's Intercollegiate Athletics' master planner

BASIC MAP LEGEND

Recently Completed Construcion In Design or Construction In Planning E&G Buildings Requiring Renovation Possible Future Structures Existing University Buildings Streams and Ponds Featured Building/Area P University Parking Structures ••• Major Bikeways Future Open





INFILL STUDY EAST OF COLLEGE AVENUE

The Infill Study concentrates larger academic projects around East Campus Drive, with support buildings recommended along the eastern perimeter and minimal development advised for east of the East Campus Loop Road.



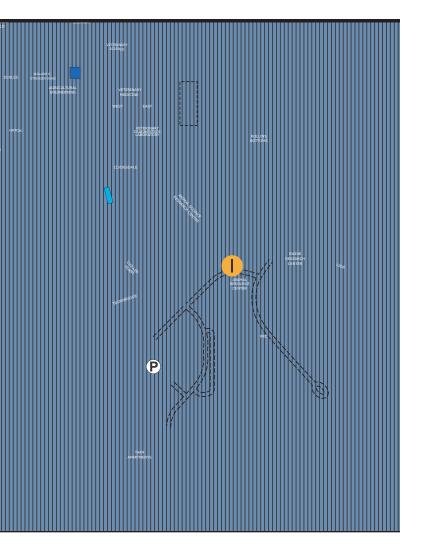
climate action and initiatives sustainability extend the university's teaching and research beyond the classroom and lab. They MU's academic support mission by demonstrating environmental stewardship, responsibility fiscal human well being

> Meredith Elbaum. MU's sustainability planner



MU's master plan reflects a 35-year legacy of strategic vision, physical planning and flexible implementation that reinforces the university's mission.

- Linda Eastley, MU's master planner



SHARED GOVERNANCE STRUCTURE CLEARLY DEFINED COMMITTEES AND OPEN COMMUNICATION IMPROVES MASTER PLANNING PROCESS

MASTER PLAN PRINCIPLES



Chancellor



Capital Review Committee

The Capital Review Committee (CRC) is an advisory committee for the Chancellor on issues concerning land utilization, space allocation and assignments, and architectural changes to the campus.

Membership

Vice Chancellor for Operations and Chief Operating Officer (chair) Deputy Provost (co-chair) Vice Chancellor of Communications and Marketing representative Vice Chancellor—Research representative

Vice Chancellor-Student Affairs representative Vice Chancellor—Chief Financial Officer

- 3 Faculty Council appointed faculty members
- 1 Staff Advisory Council representative
- 1 MSA student representative
- 1 GPC student representative

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Campus Facilities Planning Committee

The Campus Facilities Planning Committee is an advisorv committee for the Provost and Vice Chancellor for Operations to provide recommendations concerning campus land use related to capital projects following MU Campus Planning Principles.

Membership

Faculty Council appointed Chair (threeyear term) Vice Chancellor for Operations and Chief Operating Officer Chief Financial Officer representative

Vice Chancellor—Advancement representative

2 - Faculty Council appointed faculty members

- 1 Staff Advisory Council representative
- 1 MSA student representative
- 1 GPC student representative



Campus Space Utilization Committee

The Campus Space Utilization Committee is an advisorv committee for the Provost and Vice Chancellor-Operations to provide recommendations concerning campus space use following MU Space Planning Principles.

Membership

Faculty Council appointed chair (threeyear term)

Vice Provost—Undergraduate Studies

Vice Provost—Advanced Studies

CF Director—Space Planning and Management

2 - Faculty Council appointed faculty members

1 - Staff Advisory Council representative

- 1 MSA student representative
- 1 GPC student representative



Natural & Architectural Heritage natural landscape of the campus.

Create Positive Multi-Transit Environment Remain mindful of providing optimal access to all persons and modes of transportation on a primarily pedestrian-dominant campus.

Planning & Design Integrity Provide facilities and grounds that meet the functional needs of the institution and that comply with the intent of the Design Principles to provide an overall aesthetic and pleasing campus experience. Environmental Sustainability Embrace suitable strategies in promoting sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality.

Prudent Expansion of Campus Functions Provide for facilities expansion in ways that respect neighbors and effectively utilize limited land resources, while conserving and protecting natural resources.

Facilities and Grounds Stewardship Preserve the quality and utility of existing facilities for sustainable use of established resources.

Pride of State Express the importance of the campus to the state, nation and world. Community Spirit a safe and secure campus.



University Mission & Values Organize facilities and places to promote MU's mission and values.

Create and maintain campus settings that bring together the diversity of people, heritages and culture.

Design facilities to respect the scale, materials and textures embodied in the historic architecture and

Locate campus functions in close proximity to enhance scholarly activities and social interaction within

Emphasize the qualities of the campus that help attract and keep students, faculty and staff.

Make the campus a distinctively meaningful and memorable place for all members of the University

SWALLOW HALL

1893

Originally built as the zoological/geological building; later became the School of Business and Commerce and then the anthropology department.

2000

Exterior repairs protected interior systems and included restoring the building to its original architectural glory, including restoring the witches' hats.

Current

Reconstruct to house the departments of anthropology and art and archaeology. Replace wood structure, allowing space reconfiguration, a third floor and basement improvements.

MILLION PROJECT COST

GROSS SQUARE FEET ADDED

SFAT I FCTURF HALL ADDED

ILLION IN FACILITY NEEDS ELIMINATED

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ESTIMATED COMPLETION DATE

CAMPUS MASTER PLAN MAIN CAMPUS

MAP LEGEND

PROJECTS RECENTLY COMPLETED

	1: Memorial Stadium – East Addition T	
	2: Memorial Stadium –	
	West Renovation 1	
	3: Plaza 900 Renovation	
_	4: Gwynn Hall Renovation] -9 📎
	5: South Providence Medical Park Buildin	
	6: Mizzou Tennis Center	
	7: Replace Steam Lines	
	College Ave & Rollin	
•••		
IN	DESIGN OR CONSTRU	ICTION
	8: Jesse Hall 🥎	0
	9: Swallow Hall Renovati Reconstruction	×.
	10: Dobbs Group Replace) omont 🧟 🗖
н	11: Gateway Hall 🧈 👕	
	12: Missouri Orthopaedi	c Institute
	Addition & Renovation	
	13: East Campus Chiller	
	Phase 2 🗲	
	14: Johnston/Wolpers Re	
	15: Patient Centered Car	
	Learning Center	
	16: Lafferre Hall Renova (1935/1944 Additio	
	17: Veterinary Ambulator	
	Teaching Facility 🛇	
	18: Softball Stadium I	
	PLANNING	••••
	19: State Historical Soci	
	20: School of Music Buil	
	21: Trulaske College of	
	Applied Learning Ce 22: Veterinary Medicine	
	23: Tiger Welcome Cente	
	24: Dalton Cardiovascula	
	Research Center Ad	
	25: Center for Translatio Plant Sciences 💊	
	26: Teaching & Research	h
	Winery Addition 💊	
	27: Discovery Ridge Data	a Center 🔟
	28: Meats Education	
	& Training Center 🛇	2
	29: Manor House 🔳	
	30: eLearning and Innov	
	31: Memorial Union Verti & Facility Improvem	
	32: Memorial Stadium Se	
	Expansion 🖬	
	11	

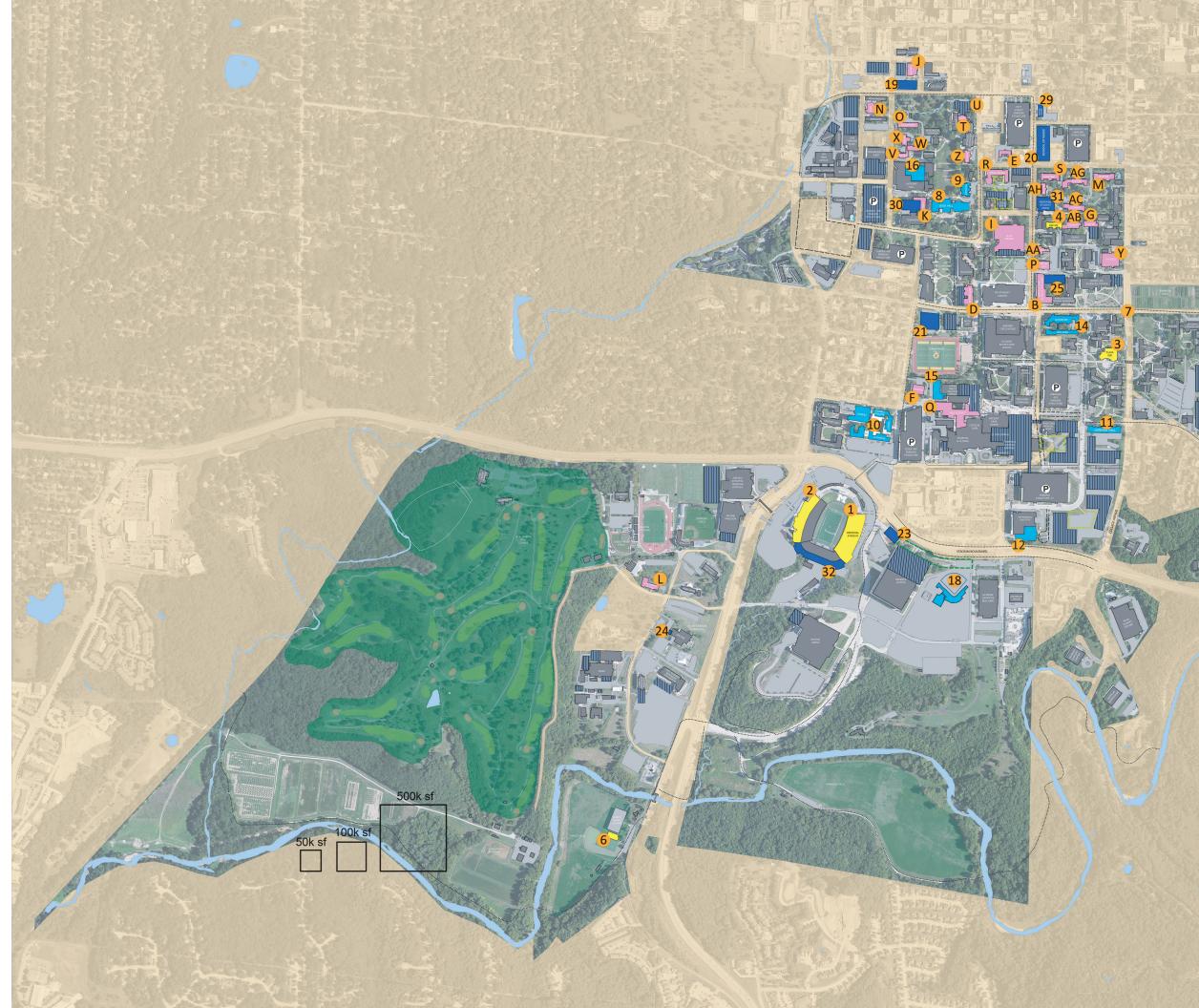
EDUCATION & GENERAL BUILDINGS REQUIRING RENOVATIONS

A: A.P. Green Building
B: Agriculture Building
C: Allton Building
D: Arvarh E. Strickland Hall
E: Columbia Professional Building
F: Crowder Hall
G: Curtis Hall
H: Mizzou North
I: Ellis Library
J: Heinkel Building
K: Hill Hall
L: Laboratory Animal Center
M: Lefevre Hall
N: Loeb Hall
0: McAlester Hall
P: McKee Gym
Q: Medical Science
R: Middlebush Hall
S: Mumford Hall
T: Neff Hall
U: Neff Hall Addition
V: Noyes Hall
W: Old Student Health Center
X: Parker Hall
Y: Physics Building
Z: Pickard Hall
AA: Read Hall
AB: Stanley Hall & Addition
AC: Stewart Hall
AD: Veterinary Diagnostics
AE: Veterinary Medicine – West
AF: Veterinary Science
AG: Waters Hall
AH: Whitten Hall

BASIC MAP

	Descible Euture Structures	
	Possible Future Structures	
	Existing University Buildings	
	Streams & Ponds	
P	University Parking Structures	
Major Bikeways		
	Future Open Space	

- Seeking LEED Certification
- 🔶 E&G Building
- 🔟 Auxiliary Building
- 🗲 Utility Project

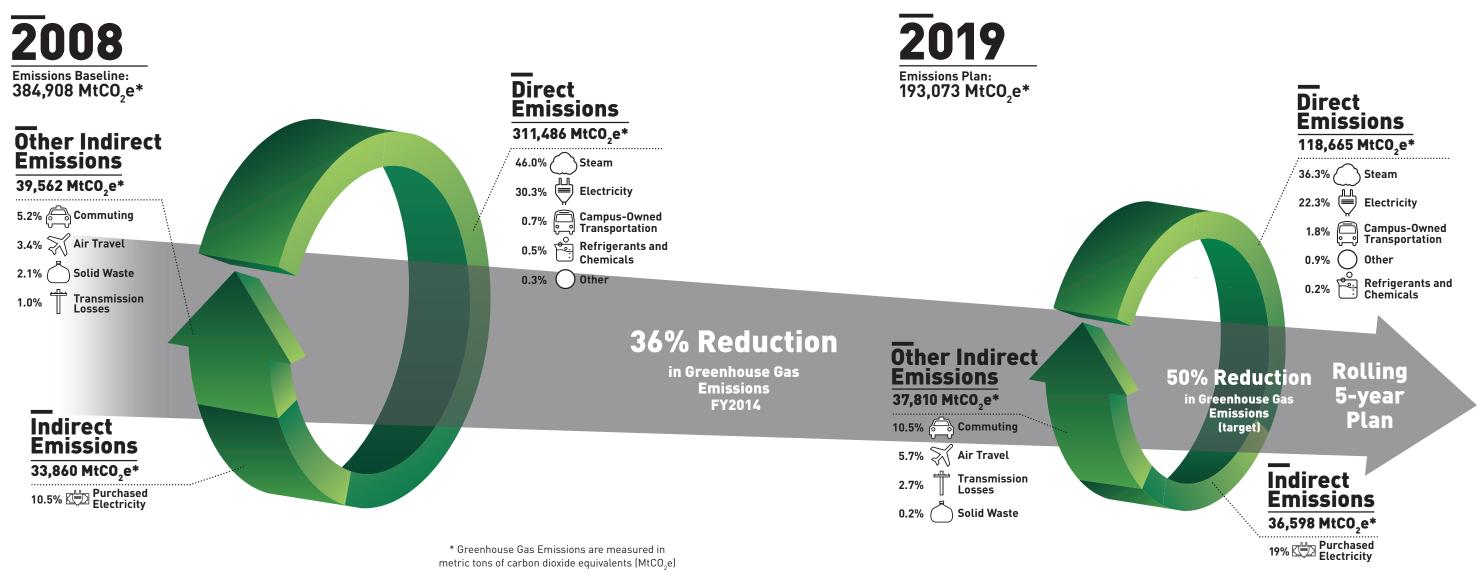




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CLIMATE ACTION PLAN UPDATE



Recent Accomplishments

As of July 2014, the campus already has achieved a 36 percent that reduced energy use in Mizzou North and Research reduction in greenhouse gas emissions from the 2008 emissions baseline.

Renewable Energy: MU's renewable energy portfolio, including biomass, wind and solar energy, reached 24 percent in FY2014.

Energy Conservation Projects: Converted heating, ventilation and air conditioning controls from pneumatic evacuated tube technology was completed and placed into to the campus electronic building automation system in the Medical Sciences Building. Completed additional projects energy.

Animal Diagnostic and Investigative Laboratory.

Energy Conservation Savings: Energy conservation saves MU \$8.4 million annually, which is equivalent to \$243 annual reduction in tuition per student. Since the program started, the total cumulative cost avoidance has reached \$66.7 million.

Solar Thermal: A new solar thermal heating system using service at the power plant to preheat boiler water from solar

2015-2019 Plan

Target a 50 percent carbon-emission reduction from the 20 emissions baseline, based on the following assumptions:

Fuel mix: Target a 75 percent reduction of coal use an increased use of biomass and natural gas from the fiscal ye 2008 baseline.

Renewable Energy: MU will continue to purchase win power and explore other renewable technologies for renewable energy portfolio.

800	Utility Master Planning: MU has started a utility master planning effort to prepare for future utility needs for the campus. See page 2.
and	
ear	Energy Conservation Projects: A project is in design to convert pneumatic controls in Clark Hall and a project to convert Jesse Hall to variable air volume is nearing
ind its	completion.

Energy Conservation Savings Target: Reduce campus energy cost by 1 percent annually.

Sustainability Statement

The University of Missouri embraces its role in providing a healthy and safe to leadership in demonstrating local MU recognizes the increasing need for policies and practices that reduce Building Council's (USGBC) LEED has signed the American College Commitment with the goal of making new version of LEED (LEED v4) that the MU campus carbon neutral. Each and practices on a regular basis with the goal of adopting and improving environmentally sustainable practices.

Sustainable Building Portfolio Improves

Mizzou continues to increase the sustainability of its building portfolio using MU's Sustainable Building Design Guidelines (SDG). To be considered learning environment for its students, sustainable a project must make staff, and faculty. Consistent with MU's economic sense, be environmentally mission and values, we are committed responsible and be good for people. This approach is known as the Triple Bottom and global environmental stewardship. Line of Sustainability. MU's SDG, first issued in 2012, is based on the US Green greenhouse gas emissions and Green Building Rating System for New Construction and Major Renovation. and University President's Climate This past year the USGBC launched a raises the bar for green buildings. unit or department within the University The major changes include selecting is expected to evaluate current policies materials based on human health and environmental impacts, taking a performance based approach to indoor

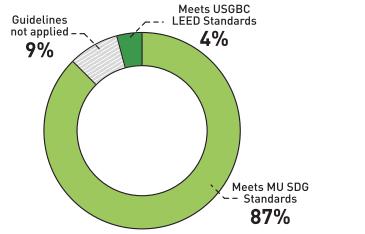
environmental quality and evaluating water efficiency of an entire building. Representatives of Campus Facilities-Planning Design and Construction, led by the group's new sustainable building program manager, evaluated LEED v4 in November 2014 and are revising MU's SDG to incorporate the new requirements while keeping the Triple Bottom Line of Sustainability in mind. While earning LEED certification is not a requirement, the campus estimates that 100 percent of projected building development in the next five years will meet LEED standards or MU SDG requirements, with 88 percent expected to achieve both. To date, including the hospital, MU has three LEED certified buildings with 10 more in process of certification.

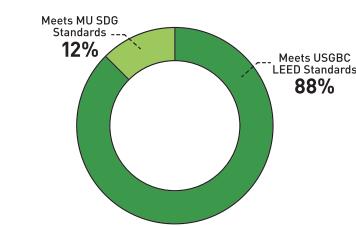
By 2020, Most Buildings will meet LEED Standards

Past 5 years of development: Building floor area designed and constructed in accordance with green building policies or guidelines

Adopted March 2010.

Next 5 years of development: Projected building floor area designed and constructed in accordance with green building policies or guidelines





Gateway Hall Features Sustainable Design

The University of Missouri's new Gateway Hall will provide a living-learning environment for 330 students. The hall, located near the intersection of Hospital Drive and Virginia Avenue, is scheduled to open in 2015 and incorporates a variety of sustainable design strategies established early in the design process.





Bioswale area filters and reduces stormwater runoff and pollution

Large floor-to-ceiling windows in common areas increase views and natural davlight, while decreasing the need for artificial lighting

SUSTAINABILITY HIGHLIGHTS

Wirkus Tackles Sustainability for Intercollegiate Athletics

Athletics, was hired in summer 2013 to assist in overseeing game management for home sporting events. Though space is a premium at sporting venues, Wirkus saw opportunities to improve ICA's recycling and sustainability efforts and began to study what other universities were doing.

Using the Ohio State University and the University of Colorado Boulder as his role models, Wirkus fully embraced recycling and sustainability efforts, and has quickly made Mizzou an emerging leader when it comes to "greening" the college sports world.

Wirkus collaborated with the MU

Tony Wirkus, assistant director of Sustainability Office to increase event management for Intercollegiate recycling by 300 percent at home football games. ICA parking lot attendants handed out tailgate recycling bags, while student volunteers moved inside the stadium to collect recyclables row-by-row and conduct a fan behavior study.

> Wirkus also partnered with faculty and undergraduate students to audit trash generated on game days.

"Previously, we had no data on gameday waste. We had to infer based on statistics from other schools, such as Ohio State. This study will help us see what's actually in our stream," he said.

Mizzou's Wirkus serves on Environmental Affairs and

Waste Services Study

Wilson Coordinates Green Building Efforts

Alec Page, an undergraduate in Industrial and Manufacturing Systems Engineering, presented at Mizzou's annual Undergraduate Research & Creative Achievements Forum during the spring of 2014. The forum showcases student research and scholarly and creative achievements to the Mizzou community. Alec worked alongside faculty member Ron McGarvey. Ron uses real-life problems as lessons regarding areas that engineering analysis can (and cannot) help support the decision-making process. The aim of their research is to analyze the location and utilization of receptacles across the University of Missouri campus in order to identify a strategy that minimizes operational expenses required to accommodate waste services. An additional objective, for aesthetic purposes, is to identify strategies that could eliminate the use

of dumpsters and other containers on

In response to the growing demand for oversight of Mizzou's increasing portfolio of energy efficient and sustainable projects, the campus appointed a full-time manager for sustainable design and construction. Chris Wilson, an alumni and frequent lecturer at the University of Missouri's School of Environmental Design, and graduate of the Taubman College of Architecture and Urban Planning at the University of Michigan, accepted the newly created position early in 2014.

Chris brings his design and technical interests to further the development of the university's sustainable standards and practices. He intends to expand the portfolio of campus buildings practicing sustainable standards beyond newly constructed and renovated building.

"It is important for us to capitalize on established sustainable strategies to benefit student, faculty, and staff health and wellbeing across the majority of buildings on campus. These practices, coupled with innovative design and engineering, decrease the long-term operating cost of the university's facilities, all while benefiting the campus and environment," Wilson said.



Faculty Audit Game Day Trash Flow **Morgan Studies Fan Behavior**

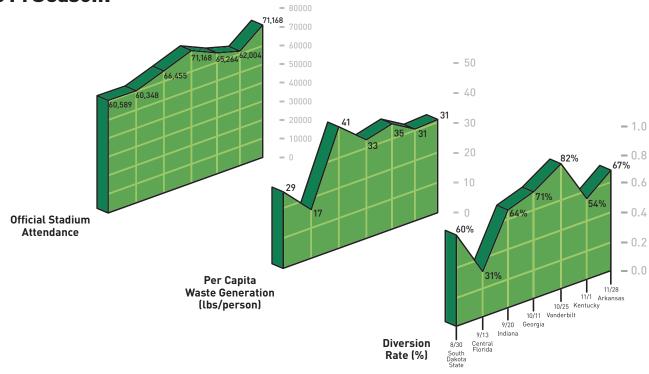
This football season researchers Christine Costello (CAFNR) During the 2014 home football season, CAFNR's Mark and Ron McGarvey (COE) and a team of undergraduate Morgan and Sustainability Office graduate assistant Hannah students, with the support of a Mizzou Advantage grant, Peterson conducted a pilot study inside the stadium that completed an audit of the trash flow generated at the looked at fan behavior regarding source separation of gamestadium on game day. Detailed information provided by the day waste. The bins were wrapped and labeled (recycling, trash audit will be used to identify opportunities to divert compost, and landfill) and four different treatments were more waste from the landfill, an increasingly common goal conducted, including messages above the receptacles and volunteers helping fans with their choices. Results of the of large venues across the country. The data will be used to study will be useful to MU Athletics and other university evaluate the engineering and economic feasibility of treating departments wanting to improve the rate of landfill waste the organic (e.g., food, compostable packaging materials) portion of the waste stream. diversion.

Gameday Challenge

Intercollegiate Athletics saw an all-time high in its sustainability and recycling efforts during the 2014 football season as Mizzou recycled 46.1 tons of waste, nearly quadrupling the 2013 efforts of 11.9 tons. Because of the athletic department's event management and facility operations team effort, Mizzou diverted 32.2 percent from the landfill, up from 10.2 percent in 2013.

After setting all-time highs in recycling in total pounds recycled and 26th and diversion rate, Mizzou ranked high on the national scene as well, participating in the GameDay Recycling in greenhouse gas reduction, third in Challenge. During the challenge, colleges and universities implement waste minimization and diversion rate waste reduction programs at home categories. football games. Schools track and report waste reduction and disposal data. Mizzou ranked 15th nationally

2014 Season:





Sustainability Committee and is

serving on the new softball stadium

construction committee hoping to

incorporate sustainable building

practices and recycling from the

beginning instead of an afterthought.

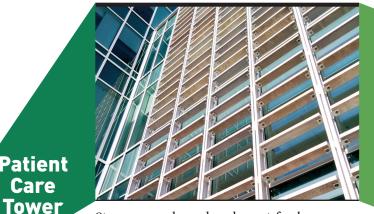
nationally in diversion rate. Among schools in the SEC, Mizzou was second total recycling and fourth in both the

SUSTAINABILITY HIGHLIGHTS

Adaptive Stone Reuse Across Campus

Stafford and Cramer halls were built post-World War II when many soldiers and sailors returned from war and took advantage of the GI bill, filling campuses across the nation. Fast forward 50 years, to care for an influx of baby boomers, MU Health Care was planning the Patient Care Tower and needed additional space.

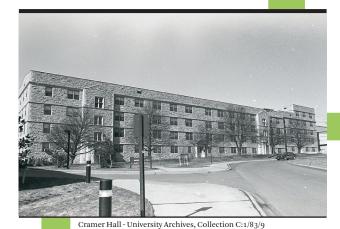
Through master planning efforts, it was decided that the land that Cramer and Stafford sat on was more essential than the residence halls that had fallen into disrepair and could not meet today's students' needs. They were closed and demolished in 2008, but in order to preserve this part of Mizzou's history, stone from Cramer and Stafford was saved for reuse elsewhere on campus.



Stone was salvaged and recut for louvers on the exterior walls of the Patient Care Tower

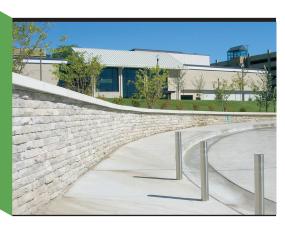


Stone was reused and repurposed as a wall of the Healing Garden





Stone is stored for future building projects



Additional stone was reused as retaining walls on the Pershing Commons renovation and Patient Care Tower

Gateway Residence Hall



The project architects sketched and photographed each stone that would be used in Gateway Hall

Stone will be used as a feature element in Gateway Hall

Farm to Table Dinner

On May 3, 2014, 86 students and 30 faculty and staff members attended the first Tiger Farm to Table Dinner. The Environmental Leadership Office, Tigers for Community Agriculture, the Wellness Resource Center, Campus Dining Services, the University Club, the Missouri Wine and Grape Board, the Children's Learning Garden, and the Parent Leadership Council sponsored a four-course meal made entirely from Missouri food.



Seniors get EPA grant

Bioengineering seniors Austin Davis, Jeremy Davis, Amanda Prescott, and Sami Tellatin, along with Assistant Research Professor Christine Costello, were one of 42 phase one grant recipients selected by the Environmental Protection Agency as part of its People, Prosperity and the Planet (P3) grant competition to receive \$15,000. The team's project, entitled "Feasibility and Life Cycle Assessment of Anaerobic Co-Digestion of Campus Food Waste and Swine Manure," will study mixing swine manure with food waste as a practical way of creating energy and recovering nutrients.

Group Polls Students

At the beginning of the winter semester, the Energy Strategies Student Advisory Group worked with the Assessment Resource Center to survey a population of the student body to gauge their awareness of MU's current energy practices, as well as their own interest in energy issues. Results will be presented to Chancellor Loftin and his staff in May. ESSAG explores coal-free alternatives for the MU Power Plant, and its primary mission is to advise MU in advancing its energy portfolio in an environmentally, fiscally, and socially responsible way.

CONSERVATION EFFORTS 19%

TIGER TREASURES, SURPLUS PROPERTY AND ENVIRONMENTAL HEALTH AND SAFETY RECYCLED 249.04 TONS OF MATERIALS IN 2014

MIZZOU'S ADMINISTRATION AND 42% SINCE CLASSROOM SPACE HAS GROWN 42% 1990







56 Students, faculty, and staff Attended one of six film screenings **56 ON ENVIRONMENTAL TOPICS**



HOW CAN I HELP?

Volunteer on campus or in the community. http://sustainability.cf.missouri.edu/involved/volunteer.html

Become an Environmental Leadership Office Ambassador or join a sustainable student organization.

http://environmentalleadership.missouri.edu/get-involved/

Live Sustainably

Shop at the farmer's market.

Carry a reusable bag and a reusable water bottle.

Use less energy. Dress for the weather. (Think layers.)

Take shorter showers.

Use alternative transportation, bike or walk.

Learn More

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Mizzou's master plan and climate action plan http://masterplan.missouri.edu

Contacts:

Campus Facilities Planning Committee: dabsonb@missouri.edu

Campus Space Utilization Committee: goldschmidtm@missouri.edu

Environmental Affairs and Sustainability Committee: Beversdorfd@health.missouri.edu

musustainability@missouri.edu muoslenvironmental@missouri.edu

