CAMPUS MASTER PLAN and CLIMATE ACTION PLAN UPDATE
MU’s Legacy of Planning
33 Years of Stewardship Planning
Why Annual Planning?

- Keeps data up to date
- Gives MU flexibility to take advantage of opportunities
- Helps make intentional decisions about projects
Advance
The Mission of the University

Promote
Stewardship of Land and Buildings

Reaffirm
A Tradition of Innovative Planning

Planning at MU
11 Master Planning Principles

Diversity with Unity
Natural & Architectural Heritage
Planning & Design Integrity
Environmental Sustainability
Prudent Expansion of Campus Functions
Facilities and Grounds Stewardship
Pride of State
Community Spirit
Recruitment-Retention
Strong Sense of Place
University Mission and Values
• Providing a **healthy and safe learning environment** for its students, staff, and faculty

• Demonstrating local and global **environmental stewardship**.

• Need for policies and practices that **reduce greenhouse gas emissions**

• Goal of making the MU **carbon neutral**

**Evaluate current policies and practices on a regular basis with the goal of adopting and improving environmentally sustainable practices**
Examples of Campus Transformation

Hulston Hall

Reynolds Alumni

Carnahan Quad
Examples of Campus Transformation

Jesse Hall
Examples of Campus Transformation

- Cramer Hall
- Patient Care Tower
Master Plan and CAP Progress
Infill Study to Master Plan
Master Plan Projects
STARS
Landscape Master Plan
Climate Action Plan
Utility Master Plan
Student Energy Survey

Planning Efforts
Maximize square footage on campus without compromising the campus we enjoy
<table>
<thead>
<tr>
<th>NEW ID</th>
<th>NAME</th>
<th>USE</th>
<th>NUM_STOR</th>
<th>AVE_STOR</th>
<th>PHASE: Near-Term</th>
<th>PHASE: Mid-Term</th>
<th>PHASE: Long-Term</th>
<th>AREA (Footprint)</th>
<th>TOTAL SF</th>
</tr>
</thead>
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**Infill-to-Master-Plan Process**
Distinction between E&G and Auxiliary Funding

- **Auxiliary spaces:** generate income and pay their way for new construction

- **Education and General (E&G)** rely on general revenue allocation. In recent years there has been very limited funding to address renovations in E&G buildings
PROJECTS RECENTLY COMPLETED

1: Memorial Stadium — East Addition
2: Memorial Stadium — West Renovation
3: Plaza 900 Renovation & Addition
4: Gwynn Hall Renovation
5: South Providence Medical Park Building
6: Mizzou Tennis Center
7: Replace Steam Lines at College Ave & Rollins St
Gwynn Hall :: completed
Plaza 900 :: completed
Memorial Stadium E/W :: completed
South Providence Medical Park Building :: completed
Master Plan :: in design or construction

- 8: Jesse Hall
- 9: Swallow Hall Renovation & Reconstruction
- 10: Dobbs Group Replacement
- 11: Gateway Hall
- 12: Missouri Orthopaedic Institute Addition & Renovation
- 13: East Campus Chiller Plant Phase 2
- 14: Johnston/Wolpers Renovation
- 15: Patient Centered Care Learning Center
- 16: Lafferre Hall Renovation (1935/1944 Additions)
- 17: Veterinary Ambulatory Teaching Facility
- 18: Softball Stadium
Swallow Hall :: underway
Gateway Hall :: underway
Lafferre :: underway

1935-1944
Extensive Renovation
Missouri Orthopaedic Institute
LEED Certified

Animal Resource Center
LEED Certified

MU Health Care Patient Care Tower
LEED Gold Certified

Pursuing LEED:
Gwynn Hall Renovation
Swallow Hall Renovation
Dobbs Group Replacement Project
Gateway Hall
Missouri Orthopaedic Institute Addition
Johnston – Wolpers Renovation
Patient Centered Care Learning Center
Plaza 900
Beyond Individual Buildings

91% WASTE DIVERTED
AASHE STARS

-starred by:
- Campus as Living Lab
- Support for Under Represented Groups
- Energy Strategies Student Advisory Group
- Clean Energy Research Consortium

ED & RESEARCH | OPERATIONS | PLAN & ADMIN

- STARS points available
- STARS points achieved
Master Plan :: in planning

IN PLANNING
- 19: State Historical Society
- 20: School of Music Building
- 21: Trulaske College of Business Applied Learning Center
- 22: Veterinary Medicine Addition
- 23: Tiger Welcome Center
- 24: Dalton Cardiovascular Research Center Addition
- 25: Center for Translational Plant Sciences
- 26: Teaching & Research Winery Addition
- 27: Discovery Ridge Data Center
- 28: Meats Education & Training Center
- 29: Manor House
- 30: eLearning and Innovation Center
- 31: Memorial Union Vertical Addition & Facility Improvements
- 32: Memorial Stadium South Expansion
• The Plan
• Campus Context
• Design Framework and Campus Organization
• Recommendations for Enhancing the Campus
• Neighborhood Initiatives
• Landscape Metrics
• Policy Impacts

Landscape Master Plan (LAMP)
Renewable Energy 24%
Energy Conservation saves $8.4 million annually
Solar Thermal
Climate Action Plan Progress

- Biomass: 8% in 2011, 9% in 2012, 35% in 2015, 36% in 2018, 45% in 2021
- Wind: 28% in 2014, 20% in 2015, 30% in 2017, 48% in 2021
- Natural Gas: 4% in 2011, 3% in 2012, 3% in 2013, 5% in 2015, 7% in 2018, 5% in 2021

CAP TARGET: 20% in 2015

University of Missouri GHG Goals Compared to ACUPCC Sample (n=13)

Sample:
University of Missouri
Cornell University
University of North Carolina at Chapel Hill
The Ohio State University
University of Colorado at Boulder
Ball State University
Arizona State University

Clemson University
Duke University
University of Arkansas
University of Illinois at Urbana-Champaign
University of Minnesota
University of Oklahoma

Comparative Climate Action Plans
Beyond 2019
Dynamic tool

Utility Costs
Required Capital
GHG Emissions
Student Perspectives on Mizzou’s Energy Strategies