Middle Tennessee State University
Facilities Services

# Summary of Services

# Annual Report July 2008—June 2009

FSD

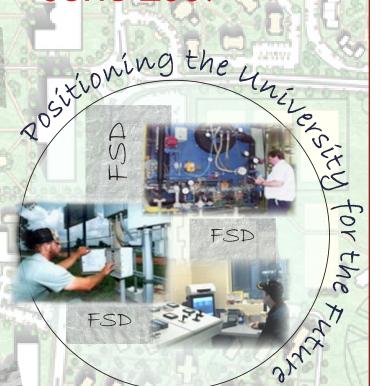
Implementation

Innovation

FSD Planning

900

strategy



Teamwork



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Facilities Services is a department reporting to Senior Vice President John Cothern of the Division of Business and Finance.





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Fiscal Year 08/09 is history. And while it is officially over, in many ways it will mark the beginning of a new era in facilities management for the university. Massive budget reductions have been announced for MTSU from the State. Federal stimulus funding to the university – provided for 2 years - has staved off the full effect of the budget reductions for now. However, Facilities Services has participated in many budget cutting exercises and planning sessions – most notably the Positioning for the Future initiative commissioned by President McPhee. These sessions have yielded plans for reducing services and cutting costs that will be implemented in various phases over the next two fiscal years.

For FY 08/09, Summary of Services report will highlight many accomplishments for Facilities Services, update the O&M and capital budget situations, revise deferred maintenance projections, and address the impending actions called for in the Positioning for the Future initiative. The following is a sample of the Accomplishments and Challenges.

### **Accomplishments**

#### Performance Metrics

This report presents several performance indicators of each work unit in Facilities Services while outlining specific goals and accomplishments. The Summary of Services Annual Report for 2007/2008 identified a total of 66 individual goals across the departmental work units for the fiscal year. Overall, 57 of the goals were completely met or had substantial progress toward their completion providing for a success rate of approximately 86.4%.

# Capital Projects and Construction/Renovation Projects

- Fourteen capital construction projects were completed totaling \$53.46 million
- Two-hundred and eighty-six renovation projects were completed totaling \$2.39 million
- Design processes continued for the new College of Education and the Student Union projects – both expecting to break ground in FY 09/10



#### **Customer Service and Communication**

 All work units combined to complete approximately 17,500 work orders for the year

#### Management and Productivity

- Quarterly meetings were conducted for every work unit within the department
- Extensive training was performed throughout the department
- Service contracts were reviewed and, in some cases, re-bid

#### Positioning for the Future

 Facilities Services was represented on the Energy Efficiency and Conservations Work Group that provided 15 recommendations for immediate cost savings and 12 recommendations for addressing future needs or opportunities

#### Challenges

#### **Budgets**

Operations and maintenance (O&M) budgets are for basic operational needs such as custodial services, grounds services, central utilities services, light bulb changing, etc., and routine maintenance and repair of facility systems such as HVAC, electrical, etc. The O&M budgets for Facilities Services have been fairly flat over the years. FY 08/09 saw no increases in O&M funding.

(Continued on page 4)

The mission of Facilities Services is to prepare and present the facilities/grounds to the university tenants and the public in a safe, clean, and functional condition while managing the resources and assets in accordance with applicable requirements, procedures, and constraints.



(Continued from page 4)

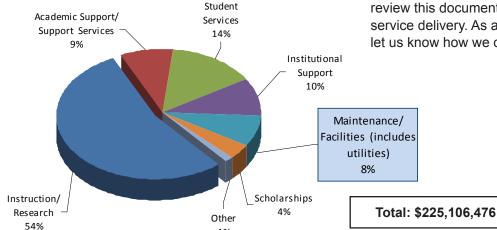
Capital maintenance projects are submitted each year, typically totaling \$10 million — \$13 million, to provide for the major repair and replacement needs of the campus. Funding formulas indicate an annual need of approximately \$8 million just to remain level. Recent funding history shows annual funding received in the amounts of \$3.5 million — \$4.5 million. Due to State budget cuts, there has been a steep downward trajectory for capital maintenance funding.

In FY 09/10 MTSU received no funding for capital maintenance. This under-funding of capital maintenance accumulates over time to a condition referred to as "deferred maintenance." Deferred maintenance puts an increased burden on the O&M needs because systems that need to be replaced remain in operation and are subject to more failures. As stated before, this condition is reported in the Campus Master Plan and highlighted in the body of this report.

#### Utilities/Energy Cost Increases

On the whole, energy and utility costs are going up. This is a function of both the increasing campus footprint and the rate escalations for the major utilities. Natural gas volatility is still the norm. FY 08/09 began with escalated natural gas rates that gave way to significant decreases. In addition, the Tennessee Valley Authority continues to adjust (net increases) electrical rates. These increases require additional incentive to be judicious in our utilities operations and more efficient in every aspect of energy usage management.





"..we strive to maintain the campus in a safe, clean, and functional manner..."

-the FSD mission

#### New Buildings

New buildings add to the O&M and utility needs of the campus. Since capital funding for a project does not ensure adequate operational funding for operating the facility, the recent growth has substantially stretched the O&M services as well as the infrastructure capacity.

#### Sustainability

Sustainability is both an opportunity and challenge for the campus. There are many initiatives designed to increase the greening of the campus such as the Sustainable Campus Fee program, the Tennessee Sustainable Design Guidelines for capital projects, the recycling program, etc. These programs and initiatives are effective but are also limited by economic factors such as first costs and paybacks. Energy and environmental regulations are expected to increase in the near term that should produce higher utility costs – straining resources further.

#### Summary

In summary, we strive to maintain the campus in a safe, clean, and functional manner while aligning the department with the University mission and the Academic Master Plan. As we pursue these goals, it is important that we hear from our customers. Please review this document (as well as our website) for our service delivery. As always, feel free to contact us and let us know how we can serve you better.

David Gray

### Central Administration: Accounting Information Services

Joe Whitefield Ramona Taylor



#### Accomplishments & Highlights 2008/2009

- Purchased two electric hybrid motor pool vehicles
- Began scanning all invoices for departmental on-line access
- Investigated feasibility of using QuickBooks software for departmental use
- Developed a monthly budget reporting system to each director/manager
- Adjusted allocation formulas for new Wellness/ Recreation Building addition
- Adjusted departmental procedures to comply with new Facility Use Policy

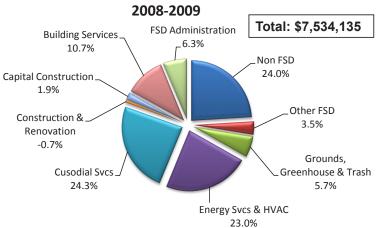
#### Goals 2009/2010

- Continue to investigate ways to more efficiently reconcile to Banner
- Improve usefulness of monthly budget reports to each director/manager
- Implement monthly billing for Campus School maintenance
- Update allocation to auxiliaries for maintenance contracts
- Switch from rental to purchase of uniforms and develop on-line ordering procedure with vendor
- Maintain financial records for expenditures related to FEMA grant
- Support Positioning for the Future Initiative

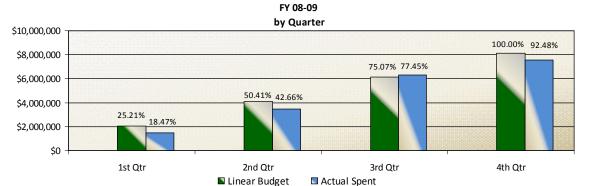
#### Continued improving communications with other MTSU departments

- Began emailing monthly customer billing reports to MTSU departments
- Participated in APPA Live Web Event
- Provided financial data for Positioning the University for the Future Initiative
- Served as departmental Information Security Officer

#### Net E & G Expenditures by M & O Function



# E & G Maintenance and Operations Budget



2008/2009	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual Totals				
*Total M & O Expenditures	\$2,815,694	\$3,021,955	\$4,026,334	\$2,741,977	\$12,605,960				
Work for Others	(\$1,311,059)	(\$1,051,098)	(\$1,192,058)	(\$1,517,610)	(\$5,071,825)				
Net E & G Expenditures	\$1,504,635	\$1,970,857	\$2,834,276	\$1,224,367	\$7,534,135				
E & G Budget	\$8 147 099   \$8 147 099   \$8 147 099   \$8 147 099   \$8 147 099								
% of Budget	% of Budget 18.47% 24.19% 34.79% 15.03% 92.48%								
* M&O function	* M&O function minus longetivity and benefits								

### Central Administration: Center for Energy Efficiency

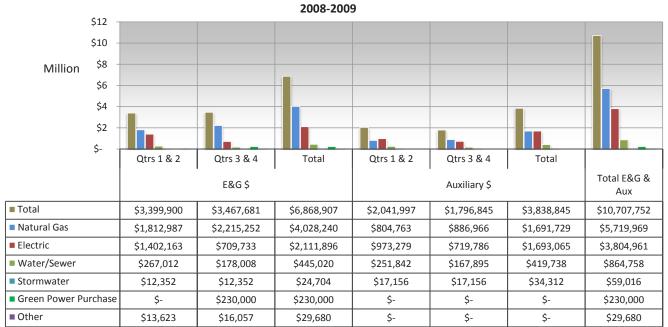
Joe Whitefield Linda Hardymon

#### Accomplishments & Highlights 2008/2009 Goals 2009/2010

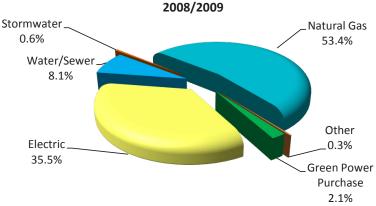
- Represented Facilities Services on the Committee for Positioning the University for the Future (J Whitefield)
  - Strategic workgroup for Energy Efficiency and Conservation Initiatives (see page 18)
- Participated in design and development of Student Union and College of Education Buildings supporting utilities and recycling planning
- Provided utilities cost analysis supporting university budget adjustments
- Graduated from APPA Institute for Facilities Management ( L Hardymon)
- Presented at the APPA Institute for Facilities Management (J Whitefield)
- Recognized as Green Power Partners with EPA due to Green Power Purchase
- Participated in APPA Live Web conference
- Continued working with the MTSU Sustainable Campus Fee Committee (see page 21)
- Updated Facility Surveys for TBR and Construction Administration
- Published the Summary of Services Annual Report for 07/08
- Continued on the President's Commission on the Status of Women
- Continued serving on planning and funding committees for Tennessee Higher Education Sustainability Association (L Hardymon)

- Negotiate utility related contracts with Tennessee Valley Authority and Murfreesboro Electric
  - Five Minute Response (5MR) utility contract
  - Generation Partners
  - o Green Power Purchase Agreement
- Complete a utilities audit and irrigation plan (Positioning for the Future)
- Resolve issues and complete metering options for College Heights satellite chilling plant
- Continue to provide utility and energy management support to university departments
- Continue support of MTSU Sustainable Campus Fee Program
- Continue serving on Tennessee Higher Education Sustainability Association committees
- Continue to support Engineering Technology, and other classroom instruction and projects (on-going)
- Support and develop energy efficiency projects for Positioning for the Future Initiative involving lights out campaign, recycling, etc.
- Complete and publish *Summary of Services Annual* Report for 08/09
- Continue training and professional development
- Complete and publish article for Facilities Manager Magazine (J Whitefield)

#### **Campus Utilities**







# Recycling Program - MTSU Recycles Linda Hardymon

Recycling Program Collections 2008/2009								
Commodity	Pounds							
Aluminum	8,455							
Mixed/White Paper	290,700							
Newspaper/Magazines	376,868							
Maintenance metals	75,420							
Cardboard	312,000							
E-waste	45,000							
Plastics	30,600							
	Units							
Batteries	894							
Ink cartridges	1,283							

#### Accomplishments & Highlights 2008/2009

- Maintained recycling program to meet campus needs employing student workers
- Consulted on design for new student union building
- Utilized Sustainable Campus Fee project funds for improvements to the recycling program (bins and equipment)
- Expanded drop-off area, adding additional roll-offs and bins
- Attended workshops and tours geared towards recycling education
- Added plastic to recycling commodities (November 2008)
- Joined athletics on plastic recycling at athletic events
- Supported Construction/Renovation projects
- Provided safety training for recycling staff

- Upgrade appearance of recycling containers on campus
- Reorganized Department
- Continue to support Construction/Renovation project work
- Develop a plan for vehicle replacement
- Continue working with MTSU Sustainable Campus Fee Program for recycling for special events on campus BRAA, athletics, Residential Life)
- Continue involvement with Tennessee Higher Education Sustainability Association
- Continue exploring new initiatives: ink cartridge collection for residential life; light bulb exchange; wooden pallet recycling
- Increase volumes and revenues
- Continue to provide classroom support
- Continue participation in training and development programs
- Support the Positioning for the Future Initiative



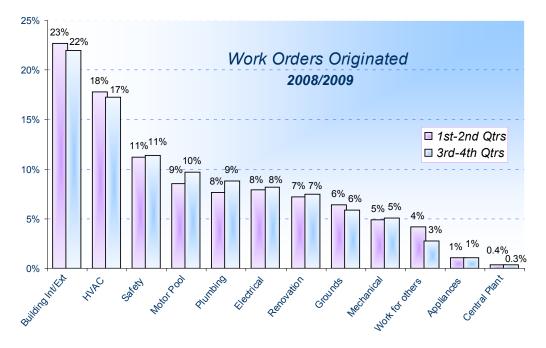
Joe Whitefield Joyce Reed

#### Accomplishments & Highlights 2008/2009

- Participated in Facilities Services Review Session
- Assisted with security audit
- Helped devise system for paperless invoice tracking
- Helped devise Sustainable Campus Fee work order process
- Supported year-end billing and reporting process, warehouse inventory, and Summary of Services

#### Goals 2009/2010

- Install new version of Mainsaver on server and client PCs
- Coordinate computer replacement project for **Facilities Services**
- Hire and train new work order clerk and part time clerk, replacing retired employees
- Support Positioning for the Future Initiative



#### Work Orders Originated: 2008/2009

1										
	1 <sup>st</sup> Qtr		2 <sup>nd</sup> Qtr		3 <sup>rd</sup>	Qtr	<b>4</b> <sup>th</sup>	Qtr	Annual	Totals
Description	#WO	% Total	#WO	% Total	#WO	% Total	#WO	% Total	#WO	% Total
Appliances	57	2%	43	1%	39	1%	51	1%	190	1%
Building Interior/Exterior	1,108	23%	961	23%	911	22%	865	24%	3,845	23%
Central Plant	17	0.4%	16	0.4%	14	0.3%	11	0.3%	58	0.4%
Electrical	376	7%	351	8%	384	9%	324	8%	1,435	8%
Grounds	352	7%	233	6%	232	6%	216	7%	1,033	7%
HVAC	912	21%	711	19%	567	14%	833	17%	3,023	17%
Mechanical	197	5%	247	6%	224	6%	217	4%	885	5%
Motor Pool	439	9%	339	9%	355	9%	559	13%	1,692	10%
Plumbing	362	7%	339	9%	482	12%	354	7%	1,537	8%
Renovation	354	6%	307	6%	303	7%	341	6%	1,305	6%
Work for Others	207	2%	178	1%	59	1%	43	4%	487	3%
Safety	564	11%	461	12%	500	12%	465	9%	1,990	12%
Total	4,945	100.00%	4,186	100.00%	4,070	100.00%	4,279	100%	17,480	100%

# Central Administration: Employee Development Services Joe Whitefield Connie Hagberg



#### Accomplishments & Highlights 2008/2009

- Facilitated employee training sessions for FSD work units
- Attended APPA Webinar training modules
- Prepared a book review on "It's Your Ship" published in the Facilities Manager Magazine

- Continue to organize and coordinate training sessions for FSD work units
- Continue maintenance and productivity studies for FSD with emphasis on custodial services
- Attend professional development and leadership training

FSD Staff Training Records - 2008-2009								
			Leadership sional Deve		Technical Training			
Dy Training Type	Employees	Employees	Tota	Hours	Employees	Total	Hours	
By Training Type	(Full-Time)	Trained	In-House	Conference	Trained	In-House	Conference	
Central Administration								
-Assistant Vice President's Office	3	3	11	66				
- Accounting Services	2	2	8					
-Center for Energy Efficiency	2	2	17	118	2	22	4	
-Work Order Services	2	2	4	8				
-Employee Development	1	1	4	7				
Engineering & Building Services	34	34	134	142	28	158		
Energy Services	19	19	50		19	81		
Construction Administration	4	4	23	82	1		16	
Grounds Services/Motor Pool 19		19	63		19	125		
Custodial Services	24	21	57	18	22	142		
Total	110	107	370	441	91	527	20	

Number of Employees Per Total Hours Trained	Employees	0 Hrs	1-10 Hrs	11-20 Hrs	>20 Hrs
Central Administration					
-Assistant Vice President's Office	3		2		1
- Accounting Services	2		2		
-Center for Energy Efficiency	2				2
-Work Order Services	2		1	1	
-Employee Development	1			1	
Engineering & Building Services	34		28	2	4
Energy Services	19		19		
Construction Administration	4		2	1	1
Grounds Services/Motor Pool	19		11	8	
Custodial Services	24	2	22		
Total	110	2	87	13	8

### Energy Services: Central Plant

Reggie Floyd Ken Buggs

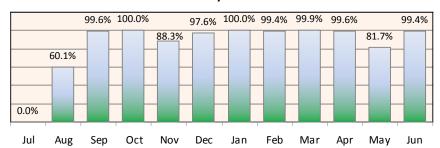
#### Accomplishments & Highlights 2008/2009

- Managed 286 callbacks
- On-going preventative maintenance program implemented by staff resulting in no unplanned central plant (steam or chilled water) outages, maintaining zero incident record for unplanned outages
- Supported steam manhole project phase II
- Supported development of College of Education and Behavioral Science and Student Union Building projects
- Supported Master Plan with regard to satellite chilling plant
- Supported construction of new satellite chilling plant
- Prepared new turbine bid specifications
- Operated turbine in accordance with sound economic principles
- Supported central plant shutdown in May 2009
- Participated in training and professional development

#### Goals 2009/2010

- Support construction of College of Education and Behavioral Science and Student Union Building projects
- Implement New Reverse Osmosis water treatment and control system for Cogen Plant
- Continue to evaluate operating schedule for gas turbine generator with respect to natural gas and electric rates
- Continue in-house training for employees on central plant operation
- Prepare new project applications for the MTSU Sustainable Campus Fee program
- Support Positioning for the Future Initiative

# Turbine: Percent Runtime by Month 2008/2009

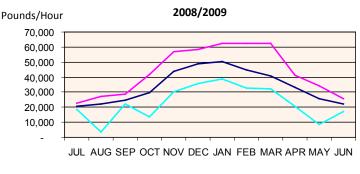


#### **Chilled Water Tonnage**

#### 2008/2009 Tons 6000 5000 4000 3000 2000 1000 0 JUL AUG SEP OCT NOV DEC FEB MAR APR MAY JUN MAX PFAK TONS MIN TONS

Purchased power: 36,406.41 MWH

#### **Steam Production**



MAX Lbs/Hr

MIN Lbs/Hr

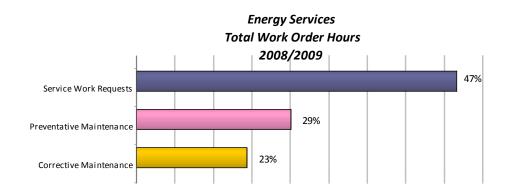
-Avg Lbs/Hr

		Cel	ntrai P	iant Ed	quipme	ent Pea	ак Оре	ration	ai Leve	eis 20	08/200	<b>J9</b>		
		3as Fired Generato		I		Steam Boilers			Chillers					
	5N	IW (nomir	nal)			85,000 P	ounds/Ho	ur (peak)	)	6,000 Tons (peak)			oeak)	
	Mid- Year	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	Annual		Mid-	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	Annual		Mid-	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr	Annual
Peak MW	5.05	5.34	5.02	5.34		Year	3.ª QII	4" Qti	Annuai		Year	3.ª QII	4" QII	Annuai
Avg MW	4.64	4.79	4.44	4.63	Avg LBS/ Hr	31,666	45,205	27,057	34,643	Peak	5,484	3,519	4,672	5,484
Total MWH	15,189	10,350	9,062	34,601	Peak LBS/ Hr	58,667	62,625	41,208	62,625	Tons	3,464	3,319	4,072	3,404

#### Accomplishments & Highlights 2008/2009

- Responded to 93 callbacks
- Supported installation of Cope Administration Building computer room HVAC units
- Assisted Pittard Campus School renovations
- Supported renovation of Woodmore/Cyber Cafe HVAC
- Supported Construction/Renovations projects
- Implemented projects approved by MTSU Sustainable Campus Fee
- Participated in safety training initiative
- Continued participation in additional training for HVAC staff

- Review and implement recommendations on services to auxiliaries, zone maintenance, runners, and shift work, where applicable
- Gain 410A refrigerant certification
- Improve HVAC building air filtering systems
- Prepare new project applications for MTSU Sustainable Campus Fee Program
- Support Positioning for the Future Initiative



	PERFORMANCE MEASURES: Energy Services								
200	2008/2009		#Work Orders Completed		Man Hours		Hours/ rders	% Closed Past Due	
CORRECTIVE MAINTENANCE (CM)	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
F Z	Appliances	15	32	81	143	5.4	4.5	33.3%	18.8%
REC TEN, (CM)	Central Plant	0	1	0	2	0.0	2.0	0.0%	0.0%
RRE NTEN (CN	HVAC	912	1,681	2,513	4,991	2.8	3.0	6.1%	6.1%
COI	Mechanical	92	188	549	1,355	6.0	7.2	7.6%	6.4%
_ ≥	Total	1,019	1,902	3,143	6,490	3.1	3.4	6.7%	6.3%
cE CE	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
≥ Z	Appliances	8	13	18	20	2.3	1.5	0.0%	0.0%
REVENTIV AINTENAN (PM)	Central Plant	21	34	1,460	2,772	69.5	81.5	19.0%	11.8%
N F F	HVAC	441	895	922	3,413	2.1	3.8	9.5%	12.6%
PRI	Mechanical	336	654	1,005	1,957	3.0	3.0	0.3%	0.2%
<sup>™</sup> ≥	Total	806	1,596	3,405	8,160	4.2	5.1	5.8%	7.4%
VICE	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
CE	Appliances	3	8	3	13	1.0	1.6	0.0%	12.5%
SERVICE RK ORDE	Central Plant	12	25	4,348	8,658	362.3	346.3	33.3%	16.0%
SER RK	HVAC	210	406	2,113	4,355	10.1	10.7	19.5%	9.4%
· · · ·	Mechanical	15	42	67	169	4.4	4.0	20.0%	14.3%
M	Total	240	481	6,531	13,194	27.2	27.4	20.0%	10.2%

#### Accomplishments & Highlights 2008/2009

- Added Estimator/Coordinator to staff
- Purchased Data Logger for electrical evaluations.
- Staff attended webinar training for infra-red camera
- Inventoried building electrical panels for arc flash study
- Consultant for Campus Planning and Capital Construction

#### **Building Services**

- Completed successful first year of testing the backflow devices on a monthly schedule
- Utilized new technology for sewer line repair by installing a fiber liner in the sewer line on the one way street by Wright Music
- · Replaced main sewer line from Walker Library

#### Construction/Renovation

- Completed 286 projects valued at \$2,387,991
- In-House Construction Guidelines updated to include TBR sustainability requirements
- Renovated Campus Planning offices, adding a conference room to the Holmes Building
- Completed 8 major Technology Access Fee projects

#### **Environmental Health & Safety (EH&S)**

- Initiated MTSU Environmental Health & Safety Services Master Plan & MTSU Environmental Handbook
- Managed the identification, collection, packaging, transportation, and disposal of approximately 20 tons of hazardous waste
- Completed hazard assessments, specifics, and purchases of Personal Protective Equipment for FSD Shops
- Updated Hazardous Waste Reduction Plan
- Responded to and remediated 9 chemical/ biohazard emergencies
- Coordinated Fire/ EMS/ Hazmat support related to arson fires in a dormitory
- Investigated & coordinated clean-up of Saunders Fine Arts structure fire
- Developed campus policy regarding candles and other ignition hazards
- Completed 1,779 EH&S work orders
- Appointed to TBR EH&S Executive Advisory Group (G Caudill)
- Organized two EH&S training sessions for TBR institutions in the mid-state area (G Caudill)
- Developed job description for an industrial hygienist position

	Construction/Renovation Project Summary 2008/2009									
	1:	st Qtr	2nd Qtr		3rd Qtr		4th Qtr		Annual Totals	
	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects
Beginning Active Projects	157	\$1,080,567	143	\$883,154	156	\$1,006,223	145	\$1,319,504	157	\$1,080,567
Added Projects	87	\$320,469	55	\$302,402	67	\$1,389,316	89	\$436,883	298	\$2,448,770
Completed Projects	101	\$517,882	42	\$179,333	78	\$1,076,035	65	\$614,741	286	\$2,387,991
Ending Active Projects	143	\$883,154	156	\$1,006,223	145	\$1,319,504	169	\$1,141,346	169	\$1,141,346

#### **Key Shop**

- Supported projects for Residential Life, Construction Administration and Construction/ Renovation requiring construction cores and/or rekeying
- Consulted with architects and designers on security issues for the new Student Union and College of Education buildings

#### Goals 2009/2010

- Continue to monitor opportunities for improved services to all areas of the University by monitoring performance and evaluating opportunities for improvement
- Continue to review and report on recommendations on services to auxiliaries, zone maintenance, runners and shift work
- Continue development of the University EH&S program
- Continue to refine the process flow charts for Construction/ Renovation that are compatible with the TBR In-House Construction Guidelines

#### Engineering & Building Services Man Hours by Work Order Type 2008/2009



Preventative Maintenance 7%

- Manage work units to obtain optimum productivity and quality while dealing with reduced budgets and manpower
- Continue training and professional development, SRAPPA and TNAPPA
- Interview and fill industrial hygienist position
- Support Positioning for the Future Initiative

	PERFORMANCE MEASURES: Engineering and Building Services								
2	2008/2009		# Work Orders Completed		ours	Avg l Hours		% Closed Past Due	
	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
Σ	Appliances	26	78	82	337	3.2	4.3	15.4%	6.4%
CORRECTIVE MAINTENANCE (CM)	Building Interior/ Exterior	1,194	2,237	2,585	5,319	2.2	2.4	6.0%	7.2%
AN	Electrical	552	1156	1,853	4,253	3.4	3.7	4.0%	4.6%
RAN	Plumbing	565	1244	1,418	2,883	2.5	2.3	1.9%	2.0%
8	Renovation	2	2	7	7	3.5	3.5	0.0%	0.0%
Σ	Safety	75	182	115	252	1.5	1.4	8.0%	7.1%
	Total	2,414	4,899	6,060	13,050	2.5	2.7	4.8%	5.3%
(F	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
ENTIVE ANCE (PM)	Building Interior/ Exterior	101	148	263	390	2.6	2.6	5.9%	8.8%
N A A	Electrical *	35	68	32	58	0.9	0.9	0.0%	0.0%
PREVENTIV	Plumbing	58	134	151	318	2.6	2.4	5.2%	5.2%
PRI	Safety	643	1,428	659	1,264	1.0	0.9	0.3%	0.4%
Σ	Total	837	1,778	1,105	2,030	1.3	1.1	1.3%	1.4%

\* includes generator PMs performed by Motor Pool Services

	2008/2009	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual
	Appliances	11	20	23	32	2.0	1.6	0.0%	5.0%
RVICE	Building Interior/ Exterior	656	1374	2,270	4,560	3.5	3.3	7.6%	8.2%
§%	Electrical	110	182	345	453	3.1	2.5	7.3%	5.5%
SEF	Plumbing	70	133	97	186	1.4	1.4	2.9%	2.3%
	Renovation	619	1,262	3,501	10,150	5.7	8.0	5.7%	7.9%
_	Safety	111	169	136	356	1.2	2.1	4.5%	14.8%
	Total	1,577	3,140	6,371	15,736	4.0	5.0	6.3%	8.0%



# Construction Administration & Capital Maintenance Services Jay Wallace Earl Bogle Julie Im

#### Accomplishments & Highlights 2008/2009

- Continuing Education
- Completed Capital Maintenance Budget Request for 2010/2011 submitted
- Continued efforts for more cooperative relationship with City Codes and other Departments
- Continued updating of Campus Standards for Facilities
- Continued effort with Murfreesboro Water & Sewer co-permitee status for Phase II storm water

- Continue enhancement of City Code/ University relations
- Greater participation in Educational opportunities
- Update campus standards and plans review process
- Continue understanding and benefits of Construction Management/General Contractor process for the University
- Continued participation of Construction Administration staff in APPA Facilities Education programs
- Initiate participation in "Green" status for capital projects and campus generally
- Support Positioning for the Future Initiative





	Capital Projects Revie	ew 2008/2009
	New Projects	Completed Projects
July - September	Campus School Renovation Scarlett Commons stairwell repair Cope electrical service entry upgrade Veteran's Memorial Wall	Sewer steam manhole project     Lyon Hall renovation
October - December	Murphy Center fire alarm	Satellite chilling plant KOM exterior renovation and reroof Monohan Hall reroof Lyon Hall reroof Scarlett Commons stairway repair Student Health, Wellness & Rec Center Baseball Stadium upgrade Cope electrical service entry upgrade
January - March	Stark Ag elevator	
April - June	Sewer line replacement - Walker Library     Tennessee Livestock Center upgrades     Stark Ag fire alarm system upgrade     Cope HVAC update	Parking and Transportation—various road improvements including round-about at MTSU Blvd Campus School renovation Tennessee Livestock Center upgrades Sewer line replacement - Walker Library

	Construction Administration Capital Projects Summary 2008/2009									
	1st Qtr		2nd Qtr		3rd Qtr		4th Qtr		Annu	al Totals
	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects	# Projects	Value of Projects
Beginning Active Projects	11	\$74,728,698	13	\$74,377,098	6	\$38,870,610	7	\$39,139,610	7	\$39,139,640
Added Projects	4	\$5,564,000	1	\$550,000	1	\$569,000	4	\$618,225	10	\$7,001,225
Completed Projects	2	\$5,915,600	8	\$36,056,488	0	\$-	4	\$11,450,835	14	\$53,422,923
Ending Active Projects	13	\$74,377,098	6	\$38,870,610	7	\$39,139,610	7	\$28,307,000	7	\$28,307,000

### Grounds Services and Greenhouse Services

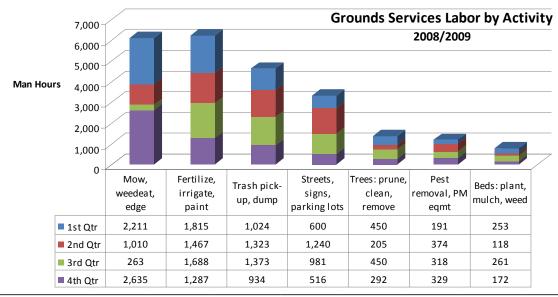
Dale Witty Larry Sizemore

# 15

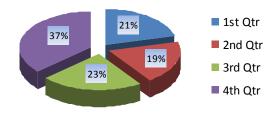
#### Accomplishments & Highlights 2008/2009

- Developed new landscape specifications for campus standards
- Worked with Campus Planning to replace old trees on campus
- Improved communication with athletic department
- Assisted in design review with regard to the new Student Union and College of Education buildings
- Developed and improved campus rain gardens

- Continue improvements to athletic fields playing surfaces
- Continue design review with regard to any new construction
- Develop and implement new strategy to improve quality and efficiency of trash removal
- Effectively manage tree trimming activities for overall look of campus and improve mowing efficiency
- Improve appearance of shrub beds; develop a three year pruning schedule
- Improve campus grounds with attention to stump removal, repairing unleveled areas, and repairing electrical and valve boxes
- Greenhouse to continue providing plants and support for events on campus
- Begin cross training for grounds positions for better work efficiency and shared responsibilities
- Support Positioning for the Future Initiative



	Performance Measures: Grounds									
2008/2009	# Work Orders		# Man Hours		Avg Man Hours /WO		% Closed Past Due			
	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual		
Maintenance	46	108	268	541	6	5	10.9%	17.6%		
Preventative (PM)	5	9	53	91	11	10	40.0%	66.7%		
Corrective (CM)	41	99	215	450	5	5	7.3%	13.1%		
Service	546	930	3,644	29,421	7	32	7.0%	7.9%		
Routine	546	930	3,644	9,196	7	10	7.0%	8.0%		
Annual	0	8	0	20,225	0	2,528	0.0%	0.0%		
Total	592	1,038	3,911	29,962	7	29	7.3%	8.9%		



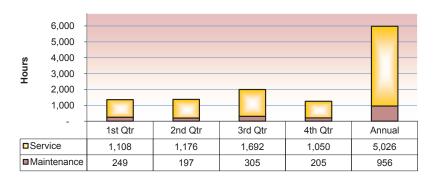
#### Accomplishments & Highlights 2008/2009

- Added two Hybrid vehicles to the motor pool fleet
- Received certification for in-house emission testing
- Received certification for mobile A/C repair
- Completed engine performance training
- Participated in safety training

#### Goals 2009/2010

- Get update for diagnostic machine
- Continue working with other shops for upkeep and repair of machines and vehicles
- Continue training opportunities
- Support Positioning for the Future Initiative

### Motor Pool Man Hours 2008-2009



	Performance Measures: Motor Pool										
2008/2009	# Work Orders		# Man Hours		Avg Man Hours /WO		% Closed Past Due				
	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual	Mid-Year	Annual			
Maintenance	345	839	446	956	1.3	1.1	3.8%	0.6%			
Preventative (PM)	336	822	421	918	1.3	1.1	3.9%	0.7%			
Corrective (CM)	9	17	25	38	2.7	2.2	0.0%	0.0%			
Service	435	871	2,284	5,026	5.3	5.8	5.1%	1.7%			
Total	780	1,710	2,730	5,981	3.5	3.5	4.5%	1.1%			

### **Custodial Services**

Joe Whitefield Connie Hagberg David Feagans Linda Jordan John Knox

### Accomplishments & Highlights 2008/2009

- Issued the Custodial Services RFP with reduced cleaning standards & frequencies; reviewed contractor proposals, with no award of contract
- Brought new Wellness Center and Recreation Center addition on-line

- Re-issue RFP and award Custodial Services contract
- Build a strong, professional relationship with custodial contractor administration to ensure contract terms are upheld
- Manage transition of new custodial contractor

E&G Space 2008-2009						
	Gross Square Feet	Cleanable Square Feet	% Cleanable Square Feet			
Facilities Services	583,072	233,058	12%			
Murphy Center Complex	604,458	494,049	26%			
Contract Labor	1,569,956	1,169,458	62%			
Total	2,757,486	1,896,565	100%			

- Continue task force inspections of facilities
- Restructure FSD custodial work unit for increased productivity and budget savings
- Support Positioning for the Future Initiatives

### **Features**

What 2 Watch 4: Positioning the University for the Future

Excerpts from Campus Master Plan December 2007

Capital Maintenance Project List

MTSU Sustainable Campus Fee Project List

The MTSU Positioning the University for the Future Initiative began in April 2008 with brainstorming sessions, including academic chairs, deans, vice presidents, and the Faculty Senate President. An oversight steering committee explored suggestions and ideas generated during the sessions resulting in the development of four strategic work groups. Those recommendations submitted by the work groups that the president has approved for Facilities Services are included below.

### Positioning the University for the Future

# Facilities Services Initiatives Recommendations Approved by our President as of May 2009

#### **Energy / Utilities**

#### Immediate Savings

- 1 (A): Lights Out Campaign
- 1 (B): Reset Temperature Set-points—Occupied Hours
- 1 (C): Reset Temperature Set-points—Unoccupied Hours
- 1 (D): Reduce Plug Load Energy
- 1 (E): De-lamp Campus Vending Machines

#### Positioning for the Future

- 2 (A): Provide/Expand Opportunities for Energy Efficient Projects
- 2 (B): Implement Watering/Irrigation Strategy to Reduce Watering Costs
- 2 (C): Incorporate Economically Sound Sustainability Initiatives in New Construction

#### Physical Resources/Physical Plant

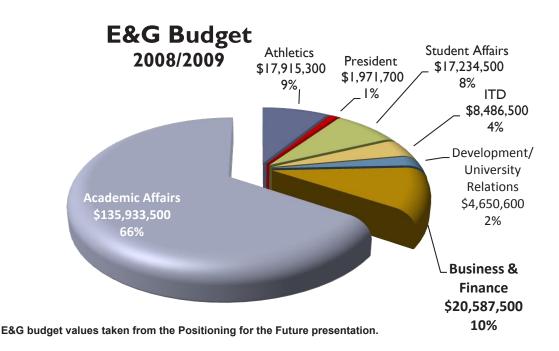
#### Immediate Savings

- 3 (A): Reduce Cleaning Standards for E&G Facilities
- 3 (B): Rebid Custodial Contract
- 3 (C): Reduce Grounds/Greenhouse Services to E&G
- 3 (F): Update Chargeback Procedures to Auxiliaries for Trash Services

#### Positioning for the Future

4 (B): Implement Watering/Irrigation Strategy to Reduce Watering Costs

For additional information, go to Positioning for the Future at www.mtsu.edu/strategic/docs/Complete\_Response\_
Document 052109 2.pdf



# Excerpts from Campus Master Plan December 2007—The following information categorizes the Education and General (E&G) facilities according to

condition and quantifies the overall level of deferred maintenance.



#### Existing Building Analysis: Education and General Facilities

Building Name	Year Constructed	Bldg ID	Current Condition (1)	Potential Value (2)	Overall Building Rating (3)	Net SF	Gross SF
Alumni Relations House (2259 Middle Tennessee Boulevard)	1908	P0174	99.8	High	А	5,598	10,105
President's Home **	1910	P0001	87.0	High	В	7,015	7,794
Tom H. Jackson Building **	1911	P0003	86.0	High	В	4,921	8,792
Kirksey Old Main **	1911	P0002	69.8	High	С	45,772	83,705
Jones Hall **	1921	P0005	82.3	High	В	21,110	39,855
Pittard Campus School **	1927	P0007	65.5	High	С	29,805	52,424
Ellington Human Science Annex	1928	P0018	77.6	Low	D	7,254	10,276
Wiser-Patten Science Hall	1932	P0008	83.0	Medium	В	27,991	41,116
Voorhies Industrial Studies	1942	P0009	89.4	Medium	В	28,516	39,289
ROTC Annex	1942	P0010	60.2	Low	D	8,574	10,143
Alumni Office (2263 Middle Tennessee Boulevard)	1948	P0172	100	High	А	1,869	2,796
1114 East Lytle Street (Lytle House)	1948	P0171	95.1	High	А	1,379	1,874
Sam H. Ingram Building (2269 Middle Tennessee Boulevard)	1951	P0169	98.6	High	А	18,907	27,498
Parking Services Building (1403 East Main Street)	1951	P0158	98.2	High	А	7,349	12,099
James Union Building	1952	P0015	84.5	Medium	В	37,101	59,351
Forrest Hall	1954	P0017	90.3	Low	D	8,562	14,177
Photography Building	1957	P0046	76.0	Low	D	8,196	11,873
Todd Hall	1958	P0019	96.0	High	А	65,598	114,388
Saunders Fine Art	1959	P0022	89.6	Medium	В	20,088	32,870
E.W. Midgett Building	1959	P0076	65.0	Low	D	10,804	18,326
Fairview Building	1962	P0149	90.5	Medium	А	22,584	38,250
Ellington Human Science	1962	P0025	83.6	Medium	В	10,828	15,509
Boutwell Dramatic Arts	1964	P0031	81.4	Medium	В	37,655	59,876
Cope Administration Building	1965	P0034	89.4	High	В	30,815	51,184
Keathley University Center	1967	P0042	84.4	Medium	В	78,973	122,671
Davis Science Building	1967	P0041	82.7	Medium	В	44,411	75,258

	tes:	
	_	

<sup>1.)</sup> Current condition - Facility Survey Score as of 10/07

Building Name	Year Constructed	Bldg ID	Current Condition (1)	Potential Value (2)	Overall Building Rating (3)	Net SF	Gross SF
Stark Agribusiness and Agriscience Center	1968	P0045	89.3	High	В	15,059	24,813
Peck Hall	1968	P0044	84.0	Medium	В	52,724	110,440
McFarland Health Service	1969	P0054	81.4	Low	D	6,873	10,285
Tennessee Livestock Center	1972	P0070	91.8	Low	D	135,079	158,191
Ezell Hall	1973	P0072	78.5	Low	D	32,497	52,452
Greenhouse	1975	P0073	100	Low	D	4,709	4,774
Ned McWherter Learning Resources Center	1975	P0074	85.1	High	В	41,763	65,865
Vocational Agriculture	1979	P0080	90.9	Low	D	5,217	6,000
Wright Music Building	1980	P0081	92.8	Medium	A	20,802	31,141
Telescope Building	1986	P0106	n/a	Low	D	328	412
ProjectHELP	1986	P0088	100	High	А	3,258	4,568
John Bragg Mass Communication Building	1990	P0083	95.5	High	А	53,735	91,114
Cason-Kennedy Nursing Building	1994	P0084	97.3	High	А	18,755	31,494
Telecomm Building	1997	P0089	100	High	А	5,957	10,267
Business & Aerospace Building	1997	P0091	99.3	High	А	100,973	184,931
Horticulture Facility	1997	P0093	94.0	Low	D	6,458	9,002
James E. Walker Library	1998	P0094	99.3	High	А	172,928	254,596
Tennessee Center for the Study and Treatment of Dyslexia	2000	P0155	94.0	High	A	4,148	7,169
Wood-Stegall Center	2001	P0156	100	High	A	4,636	10,142
Paul W. Martin, Sr. Honors Building	2003	P0166	100	High	А	11,605	20,720
Printing Services Building	2005	P0175	100	Low	D	3,927	4,320
Nursing Building Addition	2006	P084A	100	High	А	13,924	24,044

<sup>\*\*</sup> Original campus structure

#### **Overall Building Rating - Current Condition** 90-100 80-90 <80 Potential High Α В С Value В С Medium Α D D Low D

#### Deferred Maintenance

Educational and General (includes maintenance, utilities, and athletics)						
Overall Buildings Ratings	Square Footage	20-year Deferred Maintenance (1)				
Α	1,212,841	\$15,758,902				
В	1,031,907	\$57,839,731				
С	297,334	\$32,098,524				
D	95,614	\$6,215,084				
Other	67,808	\$2,038,594				
Infrastructure		\$28,487,709				
20-YR Capital Maintenance Funding		\$(24,380,000)				
Totals	2,705,504	\$118,058,544				

<sup>(1) 20-</sup>YR Deferred Maintenance is the sum of the Annual Capital Maintenance calculations for the most recent 20 year period for each facility. The Annual Capital Maintenance formula is:

ACM = 2/3 (Building Current Replacement Value) \* Building Age/1275

Like many universities and colleges, MTSU has experienced significant growth and associated financial needs over many years. These conditions have led to a postponement of major repairs and replacements of facilities and infrastructure. The delay, combined with the age of the facilities, is leading to a deterioration of the facilities and an increased backlog of maintenance and capital renewal projects. This backlog is commonly referred to as "deferred maintenance".

The E&G Deferred Maintenance table summarizes the estimated cost of 20 years of accumulated deferred maintenance for the Education and General facilities and the infrastructure on campus according to Overall Building Rating category, the 20-year total of capital maintenance funding, and the net deferred maintenance.

<sup>2.)</sup> Potential Value determined by factors including: various land use, program suitability, code issues, original campus structure

<sup>3.)</sup> Overall building rating combines the current condition and potential values

### Capital Maintenance Jay Wallace

		MTSU Capital Maintenanc		
		List of Projects for Capital Budge	t Request	
	Priority	Project name	FY 07/08 Request	Appropriated Funding
	1	Several Buildings Life Safety Updates	\$1,376,685	\$1,380,000
8	2	Cope Administration Electrical Service Entry Update	\$650,000	\$650,000
2007 - 2008	3	Underground Electrical Update Phase IV	\$750,000	\$750,000
- 2	4	Sewer System and Steam Manhole Updates Phase II	\$500,000	\$500,000
7	5	Jones Hall HVAC Update	\$705,000	\$710,000
00	6	Several Buildings Envelope Repair	\$600,000	\$-
N	7	Several Buildings Roof Replacements	\$350,000	\$-
	8 9	Murphy Center Fire Alarm Replacement	\$550,000	\$550,000
	9	Underground Electrical Phase V	\$1,300,000	\$-
		Total:	\$6,781,685	\$4,540,000
	Priority	Project name	FY 08-09 Request	Appropriated Funding
	1	Pittard Campus School Renovation	\$1,000,000	\$1,000,000
	2	Underground Electrical Phase V (7.1)	\$2,000,000	\$-
	3	Underground Electrical Phase VI (7.2)	\$1,500,000	\$-
60	4	Domestic Water/Sewer System Updates	\$250,000	\$-
2008 - 2009	5	Several Buildings Envelope Repair	\$650,000	\$-
- 2	6	Several Buildings Roof Replacement	\$400,000	\$-
8	7	Peck Hall HVAC Updates Phase 2 - VAV	\$410,000	\$-
0	8	Murphy Center Exterior Door Repair/Replacement	\$350,000	\$-
7	9	Murphy Center Arena HVAC	\$975,000	\$-
	10	Business/Aerospace Rof Replacement	\$680,000	\$-
	11	Walker Library Roof Replacement	\$600,000	\$-
	12	Murphy Center Roof Replacement	\$1,500,000	\$- \$-
	13	Several Buildings Life Safety  Total:	\$500,000 <b>\$10,815,000</b>	\$1,000,000
		Total.	FY 09/10	Appropriated
	Priority	Project name	Request	Funding
	1	Underground Electrical Phase V	\$2,700,000	\$- \$
	3	Boiler Feed System & Steam Line Improvements	\$1,475,000	\$- ¢
0	4	Several Buildings Roof Replacement	\$450,000	\$- ¢
- 2010	5	Domestic Water/Sewer System Updates Several Buildings Envelope Repair	\$300,000 \$750,000	\$- \$-
. 2	6	Peck Hall HVAC Updates Phase 2 - VAV	\$460,000	\$- \$-
6	7	Murphy Center Exterior Door Repair/Replacement	\$400,000	\$-
	8	Murphy Center Arena HVAC	\$1,100,000	\$-
20(	9	Underground Electrical Phase VI	\$1,235,000	\$-
	10	Business/Aerospace Roof Replacement	\$785,000	\$-
	11	Walker Library Roof Replacement	\$700,000	\$-
	12	Murphy Center Roof Replacement	\$1,725,000	\$-
		Total:	\$12,080,000	\$0
	Priority	Project name	FY 10/11 Request	Appropriated Funding
	1	"D" Steam Line Replacement	\$850,000	TBD
	2	Underground Electrical Phase V	\$3,105,000	TBD
		· · · · · · · · · · · · · · · · · · ·		
	3	Several Buildings Roof Replacement	\$750,000	TBD
~	3 4	Several Buildings Roof Replacement  Boiler Feed System & Steam Line Improvements	\$750,000 \$1,698,000	TBD TBD
011				
2011	4	Boiler Feed System & Steam Line Improvements	\$1,698,000	TBD
0 - 2011	4 5	Boiler Feed System & Steam Line Improvements Several Buildings Envelope Repair	\$1,698,000 \$865,000	TBD TBD
010 - 2011	4 5 6	Boiler Feed System & Steam Line Improvements Several Buildings Envelope Repair Domestic Water/Sewer System Updates	\$1,698,000 \$865,000 \$400,000	TBD TBD TBD
2010 - 2011	4 5 6 7	Boiler Feed System & Steam Line Improvements Several Buildings Envelope Repair Domestic Water/Sewer System Updates Peck Hall HVAC Updates Phase II - VAV	\$1,698,000 \$865,000 \$400,000 \$550,000	TBD TBD TBD TBD
2010 - 2011	4 5 6 7 8	Boiler Feed System & Steam Line Improvements Several Buildings Envelope Repair Domestic Water/Sewer System Updates Peck Hall HVAC Updates Phase II - VAV Murphy Center Exterior Door Repair/Replacement	\$1,698,000 \$865,000 \$400,000 \$550,000	TBD TBD TBD TBD TBD

Total:

Business/Aerospace Roof Replacement Walker Library Roof Replacement

Murphy Center Roof Replacement

\$925,000

\$825,000

\$1,990,000

\$15,158,000

TBD

TBD

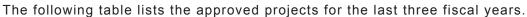
TBD

TBD

Joe Whitefield Linda Hardymon

Funded by a fee initiated by the student body, administered by the Division of Student Affairs, and supported by the Tennessee Board of Regents, the intent of the MTSU Sustainable Campus Fee Program is to decrease consumption on the campus of non-renewable energy. A portion of the fee is designated for purchasing 'green power' to facilitate production of electricity from wind, solar power, and methane gas as a clean alternative to traditional energy sources.

The remainder of the funds generated by the fee provides support for campus projects that increase or improve energy efficiency on campus, such as retrofitting older systems, lowering consumption and decreasing energy expenses. Projects approved support energy and environmental sustainability.















#### MTSU Sustainable Campus Fee Program

Approved Project Listing	2006-07	2007-08	2008-09
Green Power Purchase	\$220,000	\$230,000	\$230,000
Blade servers- Server consolidation/Virtualization (two pairs)			\$20,000
Bus conversion to run on used cooking oil	\$15,000		
Chilling plant: pressure gauges installation	\$1,000		
Closed loop sediment filtering system Voorhies			\$14,450
Closed loop sediment filtering system KUC		\$12,000	
Closed loop sediment filtering system Mass Comm			\$14,450
Coil Cleaning Multiple Buildings (AMG, Mass Comm, Forrest Hall, Voorhies)			\$10,288
Development of flex-fueled engine (sun and hydrogen)	\$13,000	\$14,000	
Development of flex-fueled engine 2 (sun and hydrogen)		\$27,000	
DRIPS Project (Development and Research into Pervious Surfaces)		\$13,500	
Golf cart (electric to solar)		\$8,000	
Golf cart conversion (electric to solar) Safety and suspension upgrade		\$2,500	
Hot/chilled water valve assessment		\$5,000	
HVAC controls replacement Wright Music	\$29,950		
HVAC pocket filter project BAS			\$6,250
Hybrid/Alternative fuel vehicle purchase (subsidy)	\$17,250		
Installation of programmable thermostats in F/S maintenance shops	\$1,200		
Kenaf Agriculture for Sustainable Community (Alternative energy crop)			\$5,935
Lamp crusher	\$4,000		
Library book purchase			\$4,500
Light switch plate cover replacement	\$2,500		
Multi-fuel bus emission testing project		\$10,944	
Occupancy Sensors Honors Building			\$3,372
Permeable Pavers for Sustainable Learning Environment (Forest Hall)			\$13,050
Poster campaign and Earthwise Reusable Bag Project		\$18,160	
Purchase of organic dyes to be used in organic dye sensitized solar cells			\$1,100
Re-caulk exterior windows (Davis Science Building)		\$14,000	
Recycling - community drop-off relocation/expansion	\$3,000		
Recycling containers	\$1,500	\$5,000	\$5,500
Re-lamp Cason Kennedy Nursing Building (existing portion)	\$30,600		
Re-lamp Fairview Building		\$30,600	
Replacement of exterior windows McFarland Building			\$25,000
Replacement of 21 exterior windows Holmes Building		\$35,000	
Studio lighting installed in Mass Comm and LRC			\$22,960
Sub-metering for Chilling Plant	\$4,000		
Sub-metering for Murphy Center	\$4,000		
Ultrasonic transmitters Midgett			\$18,130
Annual Total:	\$347,000	\$425,704	\$394,985



# Summary of Services 2008/2009 Annual Report

This report is produced by the FSD assistant vice president and staff and published by FSD Central Administration.

Linda Hardymon, Editor/Publishing Coordinator Wesley Curtis, Intern



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