

Energy Conservation: College (P816611)

Category: Montgomery College
 Sub Category: Higher Education
 Administering Agency: Montgomery College (AAGE15)
 Planning Area: Countywide

Date Last Modified: 9/21/12
 Required Adequate Public Facility: No
 Relocation Impact: None
 Status: Ongoing

Total	Thru FY12	Rem FY12	Total 6 Years	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	Beyond 6 Yrs
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	1,859	1,671	38	150	25	25	25	25	25	0
Land	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	59	59	0	0	0	0	0	0	0	0
Construction	2,918	2,318	0	600	100	100	100	100	100	0
Other	132	132	0	0	0	0	0	0	0	0
Total	4,968	4,180	38	750	125	125	125	125	125	0

FUNDING SCHEDULE (\$000s)

Current Revenue: General	1,994	1,994	0	0	0	0	0	0	0	0
Federal Aid	49	49	0	0	0	0	0	0	0	0
G.O. Bonds	2,874	2,086	38	750	125	125	125	125	125	0
State Aid	51	51	0	0	0	0	0	0	0	0
Total	4,968	4,180	38	750	125	125	125	125	125	0

OPERATING BUDGET IMPACT (\$000s)

Energy				-5,610	-810	-860	-910	-960	-1,010	-1,060
Maintenance				-2,100	-300	-320	-340	-360	-380	-400
Net Impact				-7,710	-1,110	-1,180	-1,250	-1,320	-1,390	-1,460

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 14	125
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		4,343
Expenditure / Encumbrances		4,180
Unencumbered Balance		163

Date First Appropriation	FY 81
First Cost Estimate	
Current Scope	FY 14
Last FY's Cost Estimate	5,168
Partial Closeout Thru	0
New Partial Closeout	0
Total Partial Closeout	0

Description

This project provides funding to (1) continue development of a Collegewide energy management program, (2) implement life-cycle cost effective energy conservation measures based upon energy audits, and (3) review new building/renovation designs for compliance with Montgomery County Code, Ch. 8 Building Energy Performance Standards. Typical project activities include retrofits and modifications of lighting, controls, and HVAC equipment; building envelope modifications; solar energy retrofits; computer equipment for equipment control and energy-use monitoring; HVAC system evaluation/balancing studies; long-range energy/utility planning studies; central plant design plans (Germantown, Rockville, Takoma Park/Silver Spring); and waste management studies. Typical payback on lighting, controls, HVAC and solar energy modifications is five to six years.

Justification

As mandated by Ch. 8 of the County Code and supported by the College, County Council, the Interagency Committee on Energy & Utility Management (ICEUM), and the Citizens Energy Conservation Advisory Committee (ECAC), an energy cost reduction program has been developed. This program consists of energy audits performed by College staff to identify life cycle cost effective retrofits, including a lighting retrofit program, LEED certification, etc.

Other

FY2013 Appropriation: \$125,000 (G.O. Bonds).

FY2014 Appropriation: \$125,000 (G.O. Bonds).

The following fund transfers have been made from this project: \$21,420 to Central Plant Distribution System project (#P886676) (BOT Resolution #90-102, 6/18/90); \$70,000 to Fine Arts Renovation (#P906601) (BOT Resolution #94-114, 9/19/94), \$7,000 to Planning, Design & Construction project (#P906605) (BOT Resolution #01-153, 10/15/01), and \$200,000 to Germantown Bioscience Education Center Project (#P056603) (BOT Resol. #12-06-036, 6/11/12). Beginning in FY98, the portion of this project funded by County Current Revenues migrated to the College's Operating Budget. It is anticipated that migration of this portion of the project will promote a desirable consistency with County budgeting practices and encourage greater competition in an environment of scarce resources. Reflecting the migration of this portion of the project, the College's Operating Budget includes funds for this effort. New construction and building renovation projects under review during FY12-13 include planning for new buildings on the Rockville and Germantown campuses. Campus utilities master plans are currently being updated to conform to the approved Facilities Master Plan Update (9/10). This project is also coordinated with the Collegewide Facilities Condition Assessment Update (11/07).

Disclosures

Expenditures will continue indefinitely.

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Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

This project is coordinated with the scheduled building renovations, and the planned construction of new buildings, on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses., ICEUM & ECAC, Facility Planning: College (CIP No. P886686), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664)