Energy Conservation: College (P816611)

Sub Category Hi Administering Agency Mo	Montgomery College Higher Education Montgomery College (AAGE15) Countywide					Date Last Modified Required Adequate Public Facility Relocation Impact Status				12/23/13 No None Ongoing		
		Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
EXPENDITURE SCHEDULE (\$000s)												
Planning, Design and Supervision		1,909	1,663	96	150	25	25	25	25	25	25	0
Land		0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities		59	59	0	0	0	0	0	0	0	0	0
Construction		3,118	2,403	115	600	100	100	100	100	100	100	0
Other		132	131	1	0	0	0	0	0	0	0	0
	Total	5,218	4,256	212	750	125	125	125	125	125	125	0
FUNDING SCHEDULE (\$000s)												
Current Revenue: General		1,994	1,994	0	0	0	0	0	0	0	0	0
Federal Aid		49	49	0	0	0	0	0	0	0	0	0
G.O. Bonds		3,124	2,162	212	750	125	125	125	125	125	125	0
State Aid		51	51	0	0	0	0	0	0	0	0	0
	Total	5,218	4,256	212	750	125	125	125	125	125	125	0
OPERATING BUDGET IMPACT (\$000s)												
Energy					-1,670	-910	-960	-1,010	-1,060	1,110	1,160	
Maintenance					-620	-340	-360	-380	-400	420	440	
Net Impact					-2,290	-1,250	-1,320	-1,390	-1,460	1,530	1,600	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	125	Date First Appropriation FY 81	
Appropriation Request Est. FY 16		125	First Cost Estimate	
Supplemental Appropriation Reques	st	0	Current Scope FY 15	5,218
Transfer		0	Last FY's Cost Estimate	4,968
Cumulative Appropriation		4,468	Partial Closeout Thru	0
Expenditure / Encumbrances		4,256	New Partial Closeout	0
Unencumbered Balance		212	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.

Cost Change

Increase due to the addition of FY19 and FY20.

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

FY2015 Appropriation: \$125,000 (G.O. Bonds).

FY2016 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 FY14-15 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 (1/13). This project is also coordinated with the Collegewide Facilities Condition Assessment Update (pending 11/13).

Disclosures

Expenditures will continue indefinitely.

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)