

EXECUTIVE RECOMMENDATION



Energy Conservation: College (P816611)

Category	Montgomery College	Date Last Modified	01/06/19
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Ongoing

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	3,002	1,996	26	980	80	180	180	180	180	180	-
Site Improvements and Utilities	59	59	-	-	-	-	-	-	-	-	-
Construction	3,325	2,735	20	570	45	45	120	120	120	120	-
Other	132	132	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	6,518	4,922	46	1,550	125	225	300	300	300	300	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
G.O. Bonds	3,780	2,780	46	954	109	109	184	184	184	184	-
Current Revenue: General	2,638	2,042	-	596	16	116	116	116	116	116	-
State Aid	51	51	-	-	-	-	-	-	-	-	-
Federal Aid	49	49	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	6,518	4,922	46	1,550	125	225	300	300	300	300	-

COMPARISON (\$000s)

	Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years	FY 20 Approp.
Prior Year Approved	5,718	4,816	152	750	125	125	125	125	125	125	-	125
Agency Request	6,593	4,922	46	1,625	125	300	300	300	300	300	-	300
Recommended	6,518	4,922	46	1,550	125	225	300	300	300	300	-	225

CHANGE	TOTAL	%	6-YEAR	%	APPROP.	%
Agency Request vs Prior Year Approved	875	15.3%	875	116.7%	175	140.0%
Recommended vs Prior Year Approved	800	14.0%	800	106.7%	100	80.0%
Recommended vs Agency Request	(75)	-1.1%	(75)	-4.6%	(75)	-25.0%

RECOMMENDATION

Approve with Modifications.

The G.O. Bond increase was reduced by \$75,000 in FY20 as offered by Montgomery College for affordability concerns. In addition, \$100,000 in Current Revenue: General was substituted for G.O. bonds in each year FY20-24 to ensure G.O. Bonds are spent on eligible uses.

The County Executive is deferring action on Current Revenue increases until they can be considered in the context of the operating budget, as reflected in the College Affordability Reconciliation PDF (P661401).



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EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	3,002	1,996	26	980	80	180	180	180	180	180	-
Site Improvements and Utilities	59	59	-	-	-	-	-	-	-	-	-
Construction	3,400	2,735	20	645	45	120	120	120	120	120	-
Other	132	132	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	6,593	4,922	46	1,625	125	300	300	300	300	300	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY18	Rem FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
G.O. Bonds	4,355	2,780	46	1,529	109	284	284	284	284	284	-
Current Revenue: General	2,138	2,042	-	96	16	16	16	16	16	16	-
State Aid	51	51	-	-	-	-	-	-	-	-	-
Federal Aid	49	49	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	6,593	4,922	46	1,625	125	300	300	300	300	300	-

OPERATING BUDGET IMPACT (\$000s)

Impact Type	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Maintenance	(2,820)	(420)	(440)	(460)	(480)	(500)	(520)
Energy	(7,410)	(1,110)	(1,160)	(1,210)	(1,260)	(1,310)	(1,360)
NET IMPACT	(10,230)	(1,530)	(1,600)	(1,670)	(1,740)	(1,810)	(1,880)
FULL TIME EQUIVALENT (FTE)		1	2	2	2	2	2

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	300	Year First Appropriation	FY81
Cumulative Appropriation	5,093	Last FY's Cost Estimate	5,718
Expenditure / Encumbrances	5,012		
Unencumbered Balance	81		

PROJECT 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. This project includes two staff positions for a utility analyst, and mechanical engineer, which is in response to increased workload associated with the energy and utility functions, but also the design reviews of major projects, planned lifecycle asset replacements, and capital renewals, as well as complying with laws.

COST CHANGE

Increase is due to the addition of a mechanical engineer to implement county benchmarking laws, and additional funding is needed to ready buildings for benchmarking.

PROJECT 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

FY19 Appropriation: Total - \$125,000; \$109,000 (G.O. Bonds), and \$16,000 (Current Revenue: General). FY20 Appropriation: Total - \$300,000; \$284,000 (G.O. Bonds), and \$16,000 (Current Revenue: General). 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 FY19-20 include planning for new buildings on the Rockville and Takoma Park/Silver Spring campuses. Campus utilities master plans are currently being updated to conform to the approved Facilities Master Plan 2013-2023 (2/16).

DISCLOSURES

Expenditures will continue indefinitely. Montgomery College asserts that this project conforms to the requirement 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, Montgomery College 2020 Strategic Plan, Facility Planning: College (CIP No. P886686), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664)