

# EXECUTIVE RECOMMENDATION



## Collegewide Central Plant and Distribution Systems (P662001)

Category	Montgomery College	Date Last Modified	01/09/19
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Preliminary Design Stage

### 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	500	-	-	500	-	100	100	100	100	100	-
Construction	4,875	-	-	4,875	-	275	1,400	900	1,400	900	-
<b>TOTAL EXPENDITURES</b>	<b>5,375</b>	<b>-</b>	<b>-</b>	<b>5,375</b>	<b>-</b>	<b>375</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>-</b>

### 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	4,000	-	-	4,000	-	-	1,000	1,000	1,000	1,000	-
State Aid	1,375	-	-	1,375	-	375	500	-	500	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>5,375</b>	<b>-</b>	<b>-</b>	<b>5,375</b>	<b>-</b>	<b>375</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>-</b>

### 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	-	-	-	-	-	-	-	-	-	-	-	-
Agency Request	4,875	-	-	4,875	-	875	1,000	1,000	1,000	1,000	-	875
Recommended	5,375	-	-	5,375	-	375	1,500	1,000	1,500	1,000	-	375

CHANGE	TOTAL	%	6-YEAR	%	APPROP.	%
Agency Request vs Prior Year Approved	4,875	-	4,875	-	875	-
Recommended vs Prior Year Approved	5,375	-	5,375	-	375	-
Recommended vs Agency Request	500	10.3%	500	10.3%	(500)	-57.1%

## RECOMMENDATION

Approve with Modifications. FY20 was reduced by \$500,000 in G.O. Bonds as offered by Montgomery College. In addition, \$500,000 in State Aid was added in FY21 and FY23 due to the State's new Community College Facility Renewal Grant Program.



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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	500	-	-	500	-	100	100	100	100	100	-
Construction	4,375	-	-	4,375	-	775	900	900	900	900	-
<b>TOTAL EXPENDITURES</b>	<b>4,875</b>	<b>-</b>	<b>-</b>	<b>4,875</b>	<b>-</b>	<b>875</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>-</b>

## 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	4,500	-	-	4,500	-	500	1,000	1,000	1,000	1,000	-
State Aid	375	-	-	375	-	375	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>4,875</b>	<b>-</b>	<b>-</b>	<b>4,875</b>	<b>-</b>	<b>875</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>1,000</b>	<b>-</b>

## APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 20 Approp. Request	875	Year First Appropriation	
Cumulative Appropriation	-	Last FY's Cost Estimate	-
Expenditure / Encumbrances	-		
Unencumbered Balance	-		

## PROJECT DESCRIPTION

This project provides for the design and construction of new and renovation and expansion of existing central heating and cooling plants on the College's three campuses as recommended in the College's campus utilities master plan (12/12, and 2/13). The plan for a campus central plant, and distribution systems was included in the campus facilities master plan update (6/18). The project includes installation of boilers and chillers with associated equipment, the provision of natural gas service, and the construction of a hot water and chilled water distribution piping system to new and existing campus buildings.

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## PROJECT JUSTIFICATION

This project implements the recommendations of the campus utilities master plan (12/12, and 2/13) and campus facilities master plan update (6/18). The campus' existing heating and cooling equipment is typically 20-30 years old and beyond its useful economic life. Due to the age of the equipment and increasing maintenance problems and costs, each campus is experiencing a significant increase in mechanical system problems and heating/cooling outages. Based on a life cycle cost analysis, the installation of a central heating/cooling plant offers significant equipment replacement, energy and maintenance savings to the College.

Rockville Campus Utilities Master Plan (12/12), Germantown Campus Utilities Master Plan (2/13), Montgomery College 2020 Strategic Plan, College Facilities Master Plan Update (6/18), VFA Facilities Condition Assessment (12/13).

## OTHER

FY20 Appropriation: \$875,000; \$500,000 (G.O. Bonds), and \$375,000 (State Aid).

The need to provide new systems for heating and cooling campus buildings was articulated in the utilities master plan and satisfying this requirement is critical to new building construction and the planned renovation of the existing campus buildings.

## DISCLOSURES

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.