



# Collegewide Central Plant and Distribution Systems

(P662001)

Category	Montgomery College	Date Last Modified	01/05/24
SubCategory	Higher Education	Administering Agency	Montgomery College
Planning Area	Countywide	Status	Under Construction

## EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
Planning, Design and Supervision	1,100	270	230	600	100	100	100	100	100	100	-
Construction	13,635	2,573	4,162	6,900	900	1,400	900	1,400	900	1,400	-
<b>TOTAL EXPENDITURES</b>	<b>14,735</b>	<b>2,843</b>	<b>4,392</b>	<b>7,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>-</b>

## FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY23	Est FY24	Total 6 Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	Beyond 6 Years
G.O. Bonds	10,000	1,868	2,132	6,000	1,000	1,000	1,000	1,000	1,000	1,000	-
State Aid	4,735	975	2,260	1,500	-	500	-	500	-	500	-
<b>TOTAL FUNDING SOURCES</b>	<b>14,735</b>	<b>2,843</b>	<b>4,392</b>	<b>7,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>1,000</b>	<b>1,500</b>	<b>-</b>

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

Appropriation FY 25 Request	1,000	Year First Appropriation	FY20
Appropriation FY 26 Request	1,500	Last FY's Cost Estimate	12,235
Cumulative Appropriation	7,235		
Expenditure / Encumbrances	3,218		
Unencumbered Balance	4,017		

## 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.

## COST CHANGE

Increase due to addition of FY29 and FY30.

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## PROJECT JUSTIFICATION

This project implements the recommendations of the campus utilities master plan (6/22) and campus facilities master plan (Pending 2023). 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.

Collegewide Utilities Master Plan (6/22), Montgomery College Strategic Plan (7/23), Collegewide Facilities Master Plan (Pending 2023), Facilities Condition Assessment (1/23).

## OTHER

FY25 Appropriation: \$1,000,000; (\$1,000,000 (G.O. Bonds) and \$0 (State Aid)). FY26 Appropriation: \$1,500,000; (\$1,000,000 (G.O. Bonds), and \$500,000 (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.