

GFUND - Water Purification District

Anaerobic Digestion of Bio-solids / Regional Biosolids Facility

To design, construct and operate a regional anaerobic digester to energy facility at the North Plant to replace existing ultimate disposal method of sewage sludge at both North and South plants. The facility will also be a regional source separated organic (SSO) facility with shared construction, operation and maintenance costs with the Saratoga County Sewer District. This project will replace aging equipment, generate electricity and provide a regional disposal location for SSO's to remove organic waste from landfills. This project would be a major "green" initiative and beneficially use renewable energy resources. This could also be a public / private partnership facility. This project in 2018 is amended to consider consolidation of solids handling operations of both the North, South plants and Saratoga WWTP biosolids and locating it at the North plant providing the greatest economic benefit for the rate payers.

New Project:	Existing Projects: 1	Amended Projects:
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Project amended for 2020-2024 - updating funding sources and total cost of project.

Project Financing (in millions of dollars)

Year	Pre 2020	2020	2021	2022	2023	2024	2025	Total
County Debt (Bonds & BANS)			1.050	12.975	12.975			27.000
Appropriations		1.000						1.000
Saratoga County, NY		(1.000)	(1.050)	(12.975)	(12.975)			(28.000)
State Reimbursement								-
Federal Reimbursement								-
Other		1.000	1.050	12.975	12.975			28.000
Fund Balance								-
Total County Cost	-	1.000	1.050	12.975	12.975	-	-	28.000

South Plant Preliminary Treatment Building Repair Project

The South plant was constructed in the early 1970's with much of the facility built on pilings. The Preliminary Treatment building, though built on bedrock, has shifted horizontally causing two major cracks in two walls supporting the concrete roof panels each weighing over 2,000 lbs. The District will perform an engineering evaluation to determine what step need to be taken to repair the building.

Amended for 2020-2024 - changed funding sources.

New Project:	Existing Projects: 1	Amended Projects:
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Project Financing (in millions of dollars)

Year	Pre 2020	2020	2021	2022	2023	2024	2025	Total
County Debt (Bonds & BANS)				0.600				0.600
Appropriations				0.050				0.050
Private Investment								
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	-	-	0.650	-	-	-	0.650

Management & Budget Recommendation:

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Clarifier Upgrade Project

Project to include the study, design, and construction of improvements to the existing primary and secondary clarifiers at both the North and South treatment plants. The clarifiers are required for the removal of solids and are a critical process for meeting permit compliance. The majority of the clarifiers mechanical systems are original to both facilities and at the end of their useful life.

Project Amended for 2021-2025 plan to push out start date.

New Project:	Existing Projects:	Amended Projects:	1
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Project Financing (in millions of dollars)

Year	Pre 2020	2020	2021	2022	2023	2024	2025	Total
County Debt (Bonds & BANS)				0.300	2.400	1.150		3.850
Appropriations			0.050					0.050
Private Investment								-
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	-	0.050	0.300	2.400	1.150	-	3.900

Management & Budget Recommendation:

High Voltage Upgrade

Project to include the study, design, and construction of improvement to the high voltage electrical service equipment at both the North and South treatment plants. Electric service is critical to the operations of both facilities and the high voltage equipment is original to both facilities and at the end of its useful life.

Project Amended for 2021-2025 plan to push out start date.

New Project:	Existing Projects:	Amended Projects:	1
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Project Financing (in millions of dollars)

Year	Pre 2020	2020	2021	2022	2023	2024	2025	Total
County Debt (Bonds & BANS)				1.300	2.000			3.300
Appropriations			0.050					0.050
Private Investment								
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	-	0.050	1.300	2.000	-	-	3.350

Management & Budget Recommendation:

Water Purification District Capital Plan Summary: All Projects

New Projects:	0
Existing Projects:	2
Amended Projects:	2

Project Financing (in millions of dollars)

Year	Pre 2020	2020	2021	2022	2023	2024	2025	Total
County Debt (Bonds & BANS)	-	-	1.050	15.175	17.375	1.150	-	34.750
Appropriations	-	1.000	0.100	0.050	-	-	-	1.150
State Reimbursement	-	-	-	-	-	-	-	-
Federal Reimbursement	-	-	-	-	-	-	-	-
Saratoga County, NY	-	(1.000)	(1.050)	(12.975)	(12.975)	-	-	(28.000)
Other	-	1.000	1.050	12.975	12.975	-	-	28.000
Fund Balance	-	-	-	-	-	-	-	-
Total County Cost	-	1.000	1.150	15.225	17.375	1.150	-	35.900