Setting Rates & Limpact Fees

Andrew Greene & Katherine Van Zant
45th Annual Florida Rural Water Association
Conference
July 30, 2024

IMPACT FEES



NATIONAL Florida is the fastest growing state,

Florida is the fastest growing state,

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State saw a 1.9 percent population increase from 2021 to 2022.

The Sunshine State saw a 1.9 percent population increase from 2021 to 2022.





Over the past 15 years water and wastewater utility costs in the Southeast have increased more than inflation.

Water and Wastewater Annual Price Escalation Rates for Selected Cities Across the United States: 2023 Edition, Pacific Northwest National Laboratory for the US Dept of Energy

Water Revenues

Four Categories

1. Rates

 Monthly charges for services used including fixed costs such as debt repayment

2. Connection Charges

Placement of new water meter or sewer stub-out

3. Other Fees

Late charges, turn offs / ons, etc.

4. Utility Impact Fees / Capacity Fees

One time capacity buy-in



Florida Rural Water Association

- Specialize water & wastewater rates and financing
- Serving over 1,400 cities, towns, special districts, and utilities throughout Florida
- Completed over 1,000 financing & rate studies.
- 30+ yrs advising Florida water & wastewater systems
 - 1. FRWA rate / fee studies have never had legal challenge
 - 2. Performed sound rational and methodical procedures
 - 3. Use tested utility industry standards AWWA, GASB...
 - 4. Strong legal footing under Florida Statutes & case law

UTILITY IMPACT FEES (CAPACITY FEES)



"I would like to put a nice development in your town."







HOW WILL WE TAKE CARE OF THE UTILITIES FOR OUR EXISTING CUSTOMERS MUCH LESS THE GROWTH KNOCKING AT OUR DOOR??







"Should we charge a utility impact fee to these new developments?"





"Impact Fees can hurt a struggling economy and will stunt new home construction"

"It's only fair that new growth pays for itself"

What are Capacity Fees

- One-time Charge Assessed
 - new connections to reimburse utility systems for capital / fixed costs needed to provide capacity to be used
- Fixed Costs for Water and Wastewater Service
 - wells, treatment plants, storage tanks, pumps, pipes, etc.
- Utility Capital Expenses, not Operations



Dealing with Growth & Infrastructure Decay

- Florida statute requires communities to maintain adequate levels of service for public facilities and to anticipate and prepare for growth
- It takes many years to build capacity into a system, it's impossible to provide it at the same time the new growth happens
- In addition, water and wastewater utilities must maintain infrastructure in good operating condition
- Requires adequate funding and continual repair and replacement (R&R) just to keep up with normal usage and aging

Capacity Fee Objectives

- New development pay its own way
- Fund major expansions
- Minimize debt or reduce need for future debt
- Maintain an appropriate level of retained earnings and cash reserves to meet capital needs

Capacity Fee Determination

X

<u>Capacity Cost</u> (\$) ERC No. of ERCs represented by new user

Capacity Cost per ERC:

• \$/ERC = Total Treatment Cost (\$) x gpd/ERC

Total Treatment Capacity (gpd)



Typical FRWA Capacity Fee Study Results (per ERC)

• Water: \$1,030 - \$10,260

• Wastewater: \$1,880 - \$14,050

• Typical Combined W & WW: \$9,570

EXAMPLE

- 450,000 gpd wastewater treatment capacity
- Operating 50% of capacity
- Have 2,440 ERCs remaining
- At \$5,470/ERC represents \$13,346,800 Capacity Fees not yet collected



The community is the winner – infrastructure in good condition is available for existing and new users.

QUESTIONS?



Setting Utility Rates Using RevPlan

Andrew Greene

North Florida Finance Management Circuit Rider

45th Annual Florida Rural Water Association

Conference

July 30, 2024

RevPlan: What is it?

Rev*Plan*

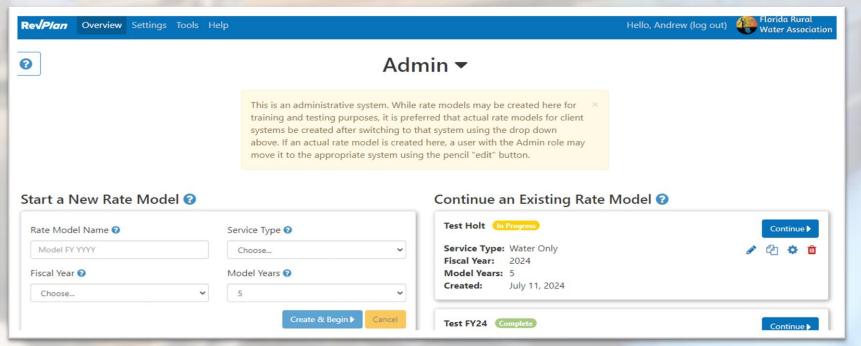
Welcome to RevPlan!

The Florida Rural Water Association (FRWA), Florida Department of Environmental Protection (FDEP) State Revolving Loan (SRF) program, and Raftelis Financial Consultants have partnered to create this online financial tracking and revenue sufficiency model, RevPlan.

RevPlan is designed to enhance the asset and financial management for small Florida water utilities. The idea behind RevPlan is to provide an online tool for small water utilities to achieve financial resiliency and to maintain their utility assets for long-term sustainability. RevPlan will assist users in identifying the various utility funding requirements over a 5 to 20-year planning window. These funding requirements include capital funding, operating costs, and debt repayment. RevPlan allows the user to identify any rate adjustments necessary to meet the utility funding requirements and the impact rate increases may have on ratepayers.

RevPlan: Overview

- When a user logs in, they land on the "Overview" page.
- Here you can create a new rate model or continue working on an existing one.



RevPlan: Putting It All Together

- Let's work through a RevPlan on a fictional community together.
- We will name our community: Gatorville

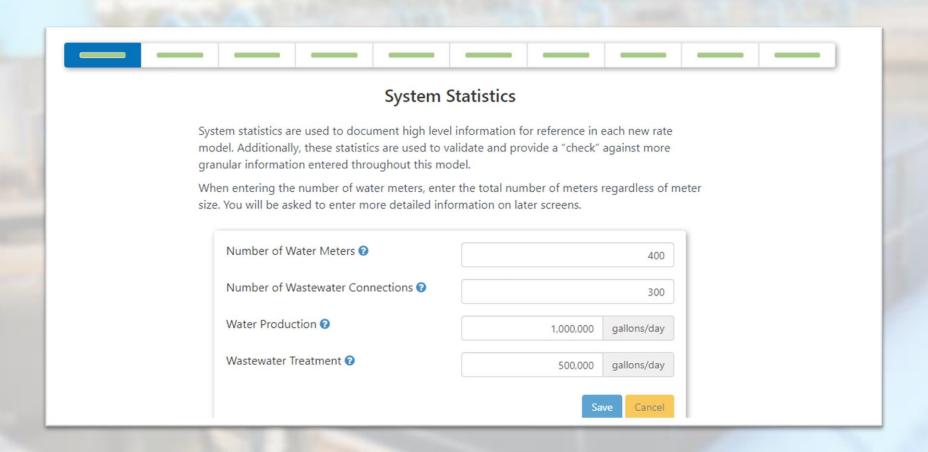
Where the sun always shines, and the Florida

Gators always win.





RevPlan: System Statistics



RevPlan: Capital Financing Plan

Capital Financing Plan

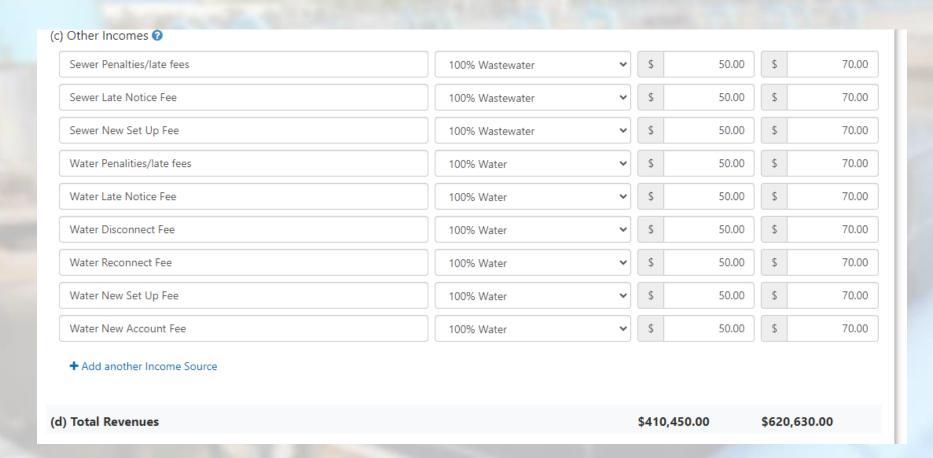
Like system statistics, the capital financing plan is high level information about the system. It is designed to obtain information similar to that requested by Florida Department of Environmental Protection (FDEP) State Revolving Loan Fund (SRF), when applying for new loans. This information may generally be obtained from Comprehensive Annual Financial Reports (CAFRs) or Annual Budgets.

Note the following:

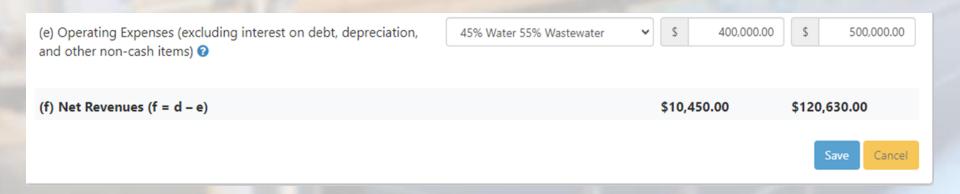
- Revenues and expenses should only include those related to water and wastewater.
- Grants should not be included in revenues here.
- Interest income should not include principal and interest expenses.

	Allocation	Fiscal Year 2022	Fiscal Year 2023
(a) Operating Revenues 🛭			
Drinking Water Rate Revenues 😯	100% Water	\$ 100,000.00	\$ 200,000.00
Wastewater Rate Revenues ?	100% Wastewater	\$ 300,000.00	\$ 400,000.00

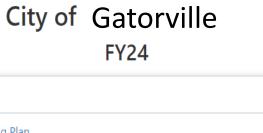
RevPlan: Capital Financing Plan



RevPlan: Capital Financing Plan



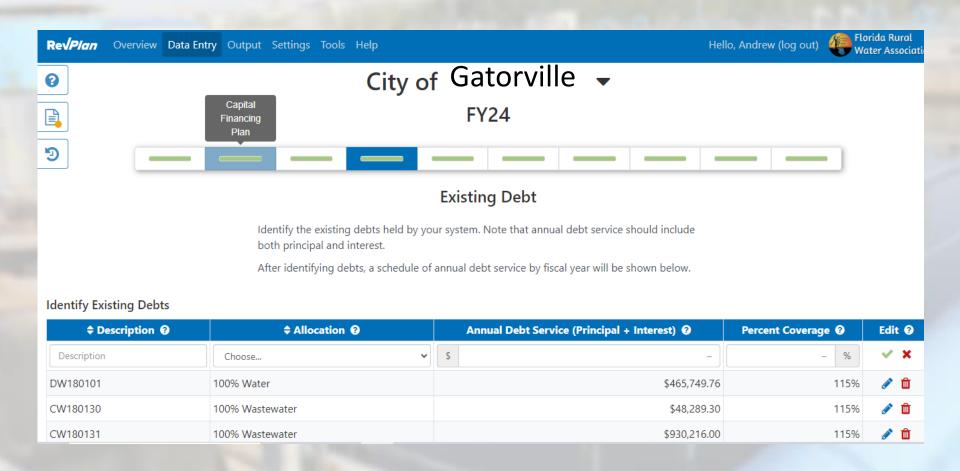
RevPlan: Assets



Summary Data

,	
Capital Financing Plan	
Assets	
Existing Debt	
Operating Expenses & Maintenance	
Capital Improvement Plan	
Anticipated Debt	
Customer Data & Revenue	
Other Revenues	

RevPlan: Existing Debt



RevPlan: Operating Expenses & Maintenance



RevPlan: Capital Improvement Plan

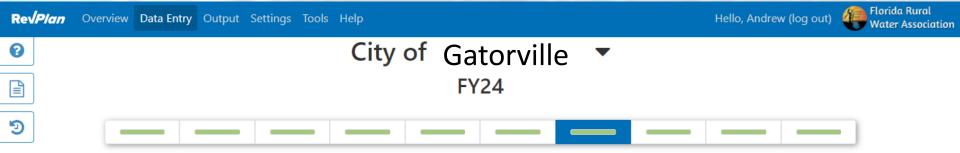


RevPlan: Capital Improvement Plan

Rev*Plan* Overview Data Entry Output Settings Tools Help Hello, Andrew (log out) Water Association **‡** Funding **‡** Loan **♦** Description **②** Fiscal Year @ Source @ Name @ (if 2024 2025 2026 2027 2028 2029 203 applicable) \$ \$ \$ \$ \$ \$ \$ Description Choose... Loan Name 25% of Budget(Asset Wastewater \$0.00 \$78,925.00 \$81,293,00 \$83,732,00 \$86,243,00 \$88.831.00 \$9 Replacement Reserve) Revenues 401.5352.909306 Reserve Wastewater \$300,000.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 for WW Infrastructure Revenues 401.5352.606400 Wastewater \$126,667.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Capitalized Equip. Revenues 401.5351.606400 Wastewater \$11,000,00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Capitalized Equip. Revenues 401.5351.606300 Projects Grant \$5,011,120,00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 532,533,534,535,536,537) 401.5351.606300 Screw Wastewater \$850,000.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Press (City 1/2) Revenues 101 5251 606200 Carour

Florida Rural

RevPlan: Anticipated Loans



Anticipated Debt

Identify the future debts anticipated for your system.

Note that line items entered in the Capital Improvement Plan using the Future Loan funding source are automatically created here using default values for details such as issuance cost and interest rate. These details may be modified on this screen. However, in order to modify the Project Funds amount you must modify the fiscal year expenditures of the corresponding line item on the Capital Improvement Plan.

After identifying debts, a schedule of annual debt service by fiscal year will be shown below.

Identify Anticipated Debts

Description	♦ Allocation ②	Project Funds 🕢	Issuance Cost ②	Total Funding	Repayment Term 🕢	Interest Rate 🕢	Percent Coverage	Year Debt Service Begins •	Edit 🛭
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Identify Customer Classes

On this screen you will identify the customer classes used by your system, indicating which services rates are designated for each and whether the rates for those services differ inside vs outside city limits.

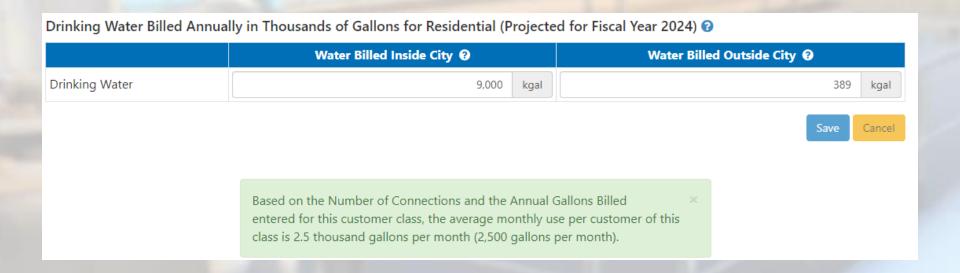
A set of common customer classes have been provided below. You may rename, delete, and add customer classes as needed. But you must identify at least one customer class for your system. If your system does not have different rate structures for different classes of customers, a single customer class may be used for all customers.

On the following screens you will enter more detailed rate information about each of the customer classes identified here.

Class Name 🛭	Does your utility currently have designated rates for this class? $oldsymbol{\Theta}$	Does your utility currently have s city	Delete 0	
		Drinking Water	Wastewater	
Residential	☑ Drinking Water ☑ Wastewater	● Yes ○ No	○ Yes ● No	
Non-Residential/Commercial	☑ Drinking Water ☑ Wastewater	● Yes ○ No	○ Yes ● No	Û
Seniors	☑ Drinking Water ☑ Wastewater	● Yes ○ No	● Yes ○ No	ŵ

Drinking Water Base Charges and Number of Connections for Residential (Fiscal Year 2024) ? Meter Size @ Base Charge Inside City ② Base Charge Outside City ② Connections Inside City ② Connections Outside City ② 5/8-inch \$ \$ 24.39 30.49 300 50 1-inch \$ \$ 1.5-inch \$ \$ \$ 2-inch \$ \$ 3-inch \$ 4-inch \$ \$ \$ 6-inch \$ 8-inch \$ \$ Other \$ \$ Cancel

Block Gallonage Range ②						e per Thou	sand (Percent of Water Billed Annually (leave cells below blank if percentages are not known) ②						
From		То			Rate Inside	City		Rate Outside	e City	Percent Inside	City	Percent Out	side	
_	gal	2,000	gal	\$	_	per kgal	\$	_	per kgal	_	%	_	%	
2,001	gal	4,000	gal	\$	5.75	per kgal	\$	5.75	per kgal	_	%	_	%	
4,001	gal	6,000	gal	\$	6.33	per kgal	\$	6.33	per kgal	_	%	_	%	
6,001	gal	8,000	gal	\$	6.96	per kgal	\$	6.96	per kgal	_	%	_	%	
8,001	gal	10,000	gal	\$	7.66	per kgal	\$	7.66	per kgal	_	%	_	%	
10,001	gal	_	gal	\$	8.42	per kgal	\$	8.42	per kgal	_	%	_	%	
nother Block														
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RevPlan: Utility Reserves

Demo Model

Utility Reserves

On this screen you may enter reserves held by your system.



RevPlan: Output

- Output is displayed in RevPlan in 2 different ways:
 - Dashboard
 - Tabular Schedules
- Let's look at these screens together.



Hello, Andrew (log out) Florida Rural
Water Association

Adjustments ?

Overview Data Entry Output Settings Tools Help

Re√*Plan*

☑ Apply Residential adjustments to all customer classes

	Fiscal Year																			
	2024	4	202	5	202	6	202	27	20	28	202	9	203	0	203	1	203	2	203	3
Residential																				
Base Charge Adjustments																				
Drinking Water	0	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%
Wastewater	0	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%
Usage Charge Adjustments																				
Drinking Water	0	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%	2	%
Wastewater	0	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%	3	%



Output	Settings Help
	Dashboard
	Tabular Schedules
	Drinking Water Revenue Requirements
	Wastewater Revenue Requirements
	Debt Service Coverage
	Unrestricted Fund Balance
	CIP Schedule
	Debt Service Schedule
	Operating Expense Projection
	Typical Monthly Bill
	Rate Schedule
	Rate Revenue

RevPlan: Tabular Schedules



Tabular Schedules

Drinking Water Revenue Requirements

		Fiscal Year							
	2018	2019	2020	2021	2022				
Revenue Requirements:									
Operating Expenses	\$440,000	\$453,200	\$466,800	\$480,800	\$495,200				
Debt Service	\$21,300	\$21,300	\$21,300	\$21,300	\$102,700				
Other Expenses/Transfers	\$0	\$0	\$0	\$0	\$0				
Capital Expenditures	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000				
Gross Revenue Requirements	\$546,300	\$559,500	\$573,100	\$587,100	\$682,900				
Less: Miscellanous Revenue	\$11,500	\$11,500	\$11,500	\$11,500	\$11,500				
Net Revenue Requirements	\$534,800	\$548,000	\$561,600	\$575,600	\$671,400				
Existing Rate Sufficiency:									
Revenue from Existing Rates	\$652,300	\$652,300	\$652,300	\$652,300	\$652,300				
Revenue Surplus/(Deficiency)	\$117,500	\$104,300	\$90,700	\$76,700	(\$19,200)				
Proposed Rate Sufficiency:									
Revenue from Proposed Rates	\$656,000	\$659,800	\$663,600	\$675,800	\$688,300				
Increase in Revenue	\$3,700	\$7,500	\$11,300	\$23,500	\$36,000				
Cumulative %	0.57%	1.15%	1.73%	3.61%	5.53%				

Your RD Circuit Riders are here to help!

Northwest Florida

Ben Lewis @FRWA.net

North Florida

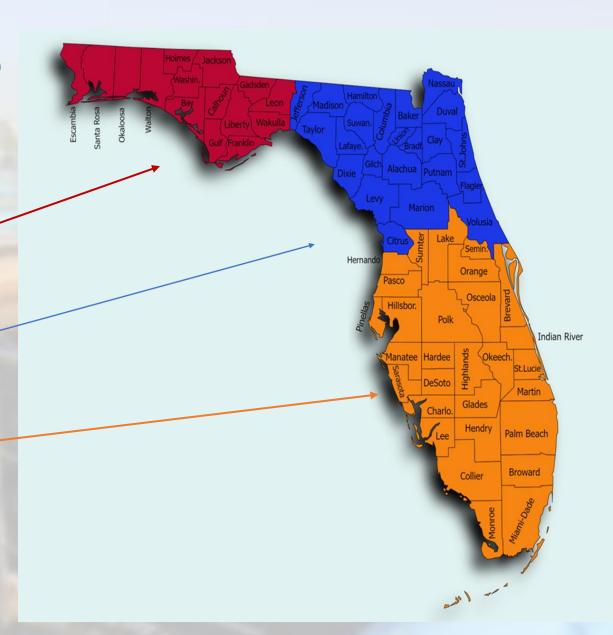
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Central Florida

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Questions?

Thank you so much for your time and attention.