

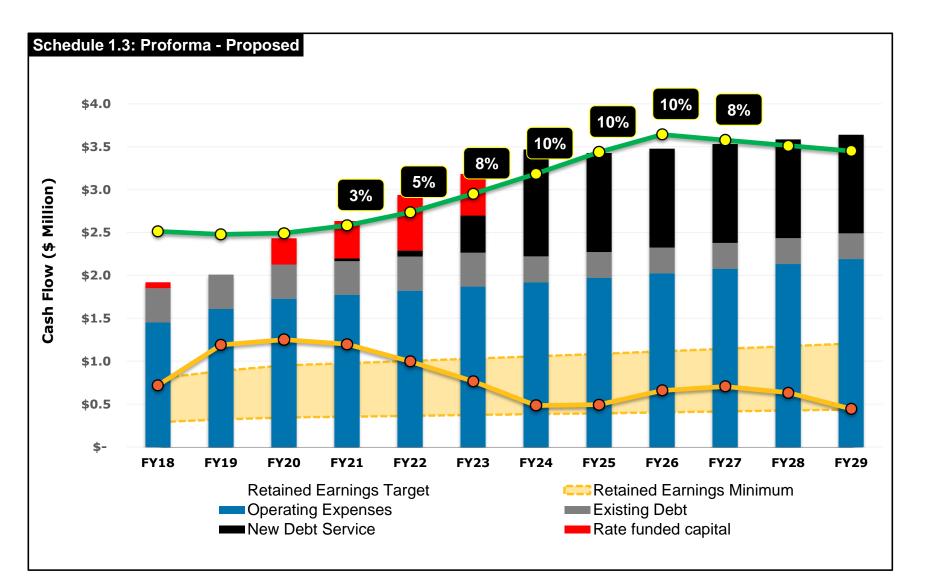
SMALL COMMUNITY CONFERENCE NITROGEN & PHOSPHORUS REMOVAL

Rate Making and the Secret to Project Funding

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KEYS TO RATE SETTING



OVERVIEW

When is this going to happen? How much is it going to cost? How are we going to pay for it?



WHEN IS THIS GOING TO HAPPEN?

- Time is on your side ...to a degree
- It's not as far off as you think ...so start now





HOW MUCH IS IT GOING TO COST?

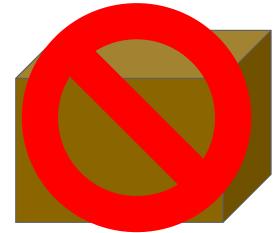
Upgrade costs

- Depending upon permit, will either consist of

- Process modification
- New unit process

- Budgeting considerations

- Other plant needs
- Design and permitting
- Construction escalation





HOW ARE WE GOING TO PAY FOR IT?

Enterprise fund concept

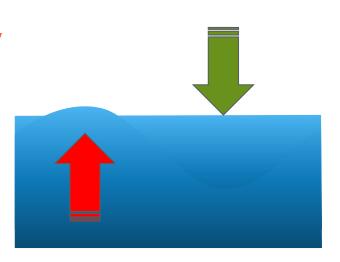
Accounting methodology designed to separate utility costs from general fund.

User rates

Concepts

- Costs are borne by those receiving the benefit
- Closed system (Zero-sum game)

Equity Affordability







Concept

Paying

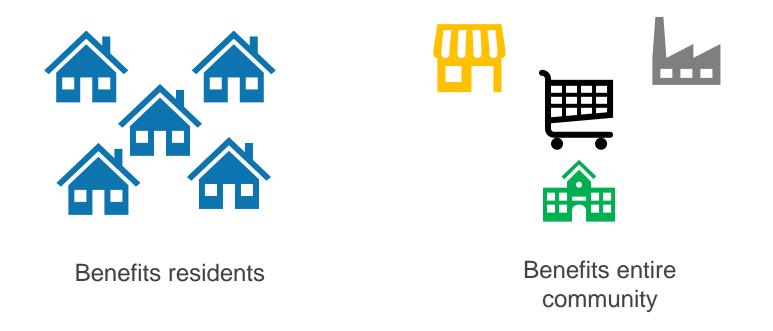
Receiving benefit

In what proportions?

EQUITY

Why do you have sewers?

Replace failing septic systems? Serve high density areas? Allow building in previously "unsuitable" areas?





FUNDING CONSIDERATIONS

Rates

Represent full cost of service Build reserves in advance of debt Look at high strength users

General Fund General Fund Alternatives

MA: Municipal Water Infrastructure Investment Fund Cape Cod and Islands Water Protection Fund

Tighe&Bond

PPP

- Public Private Partnerships

Affordability is subjective

To some that's warm

Say its 65°F outside today

To others, it's chilly







Same value, different interpretations.



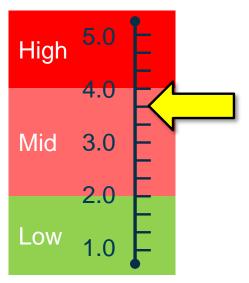
Measuring affordability

Current: Residential Indicator

Comes from 1990's EPA Guidance Document Two components: Community and household <u>Average</u> residential cost divided by median <u>income</u>

🦕 Water <u>AND</u> Sewer

Economic Burden



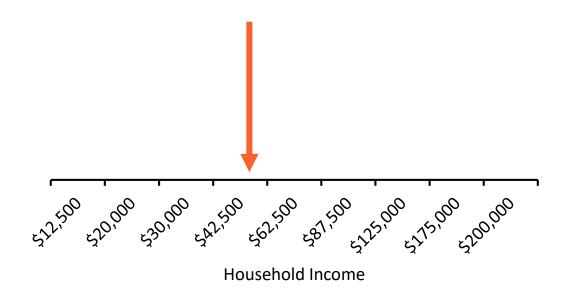
Total cost: MHI:	<u>\$2,400</u> \$62,000	= 3.8%



Measuring affordability

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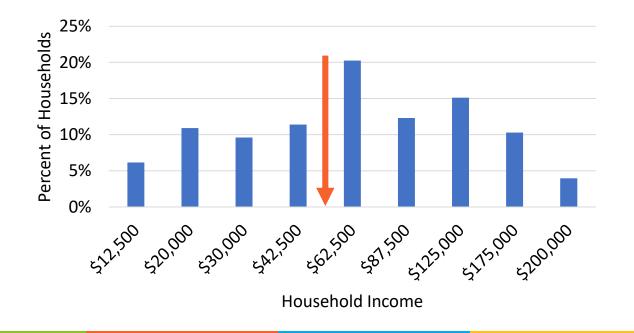




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		No.	Percent of		
From	То	Households	Total	Cost as %	_
\$10,000	\$14,999	381	6%	19.2%	
\$15,000	\$24,999	677	11%	12.0%	
\$25,000	\$34,999	595	10%	8.0%	
\$35,000	\$49,999	706	11%	5.6%	
\$50,000	\$74,999	1,256	20%	3.8%	
\$75,000	\$99,999	763	12%	2.7%	
\$100,000	\$149,999	937	15%	1.9%	
\$150,000	\$199,999	638	10%	1.4%	
\$200,000	more	246	4%	1.2%	
		6,199		Total	_

Measuring affordability

Proposed: Household Burden Indicator

Comes from 2019 AWWA / NACWA / WEF Report Two components: Community and household Residential cost divided by 20% percentile income

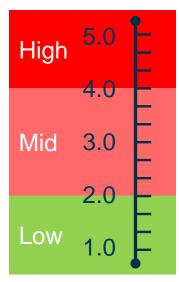
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Economic Burden

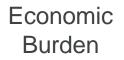




Measuring affordability

Proposed: Household Burden Indicator

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TAKE AWAYS



Your challenges are unique

Take the long view



Need to think outside the box



Don't focus only on permit upgrades

